#### PŘÍLOHA Č. 1 Technická specifikace

Komponenty	Specifikace
Typ "Standard-1D-I"	Cisco Webex Room 55
Sestava VCJ typu "STANDARD-1D-I", ovládací panel	
Typ "STANDARD-2D-I"	Cisco Webex Room 55 Dual
Sestava VCJ typu "STANDARD-2D-I", ovládací panel	
Externí mikrofony	
Typ "BASIC"	Cisco Webex Room Kit Mini
Sestava VCJ typu "BASIC", ovládací panel	
LCD 55"	
Stojan na LCD	
Typ "PLUS"	Cisco Webex Room Kit Plus
Sestava VCJ typu "PLUS", ovládací panel	
Externí mikrofony	
LCD 82"	
Stojan na LCD	
Typ "PRO"	Cisco Webex Room Kit Pro
Kodek, ovládací panel	
Quad kamera	Cisco Quad Camera
Náhledová PTZ kamera	Cisco Precision Camera P60
Externí mikrofony	
LCD 75"	
LCD 82"	
Stojan na LCD	
Digitální flipchart, stojan	Samsung Flip 2
Typ "PRO"	Cisco Webex Room Kit Pro
Kodek, ovládací panel	
Náhledová PTZ kamera	Cisco Precision Camera P60
Dvojice PTZ kamer	Cisco Speaker Track

Externí mikrofony	
LCD 55"	
LCD 75"	
Stojan na LCD	
Digitální flipchart, stojan	Samsung Flip 2
Typ "Standard"	Cisco Webex Room Kit
Sestava VCJ typu "STANDARD", ovládací panel	
Externí mikrofony	
LCD 55"	
LCD 75"	
Stojan na LCD	
Sada pro bezdrátové sdílení obsahu	Barco ClickShare CSE-200
Základní jednotka, 2 koncové prvky	
Typ "PLUS-I"	Cisco Webex Board (Spark Board)
Sestava VCJ typu "PLUS-I", ovládací panel	
Typ "STOLNÍ-KAMERA"	Cisco Webex Camera
VCJ typu "STOLNÍ-KAMERA"	
Typ "STOLNÍ-I"	Cisco Desk Pro
VCJ typu "STOLNÍ-I"	
Sada audiokonferenční	Bosch CCS800
Konferenční systém, příslušenství: 12 mikrofonů	

Sestava	Umisten			1	Ι	1	1	1	Ι	Ι			1	Ι	1		1	Ι		1		1					ę	
Komponenty	JUNG 665	ADR 544	BCV 0097	BCV 4014	BCV 6070 DSCB212	DSCV 11	<b>RAS</b>	RAS	JUNG 554 No 127	NRK1	NRK2	NR 144	NR 23.1 NP 245	NR 247	NR 347	NR410	RAS	JUNG 602	NR 350	JUNG 332	RYT	NR	NR 38	RYT	JUNG 55.1	Mnolství [1]	Jednotková ce bez DPH [K2]	Cellová cena bez DPH [K2]
Typ "Standard-1D-I"																												
Sestava VCJ typu "STANDARD-1D-I", ovládací panel		1	1	_		-	1	_	_	-			_	-	-	4	-1-	_	-			1	1	_	_	5	350 000 Kč	1 750 000 Kč
Typ "STANDARD-2D-I"																												
Sestava VCJ typu "STANDARD-2D-I", Ovladaci panel				1			I								1							1				1	750 000 Kč	750 000 Kč
Externí mikrofony		-		2	_	-	-	-		-			_	-	-		-1-	-	-	-	-	-1		_	-	2	30 000 Kč	60 000 KČ
Typ "BASIC"				-				-		-					-		-					-			-			
Sestava VCJ typu "BASIC", ovládací panel				1	1		I						1		1				1			1				3	75 000 Kč	225 000 Kč
LCD 55"		L		1			I				11		1		1		- I		1			- 1			- 1	1	45 000 Kč	45 000 Kč
Stojan na LCD		-	_	-	_	-	-	-		-			1	-	-		-1-	-	-	-		-1		_	-	1	10 000 Kč	10 000 Kč
Typ "PLUS"				-				-		-					-		-		-			-			-			
Sestava VCJ typu "PLUS", ovládací panel				1	1										1	1		1				1				1	330 000 Kč	350 000 Kč
Externí mikrofony				1											1	1			1			1				1	30 000 Kč	30 000 Kč
LCD 82"				1	1										1	1		1				1				1	80 000 Kč	80 000 K
Stojan na LCD		-		-	_	-	-			-	-		_	-	-	1			-	-	-	-1		_	-	1	10 000 Kč	10 000 Kč
Typ "PRO"																												
Kodek, ovládací panel				- 1			1								1	11		1 1		1		- 1		- 1		2	430 000 Kč	900 000 Kč
Quad kamera				1			I								1			1   1				1				2	200 000 Kč	400 000 K
Náhledová PTZ kamera		L		1			I				11				1			1   1				- 1			- 1	2	103 000 Kč	210 000 Kč
Externí mikrofony				1			I								1			2 2				1				4	30 000 Kč	120 000 Kč
LCD 75"		L		1			I				11				1		- 1	1   1				- 1			- 1	2	65 000 Kč	130 000 Kč
LCD 82"				1			I								1		- 1	1				1				1	80 000 Kč	80 000 Kč
Stojan na LCD		L		1			I				11				1		- 1	1   1				- 1			- 1	2	10 000 KČ	20 000 Kč
Digitáiní nipchart, Stojan																	_	1 1								2	35 000 Kč	70 000 Kč
Typ "PRO"																												
Kodek, ovládací panel		L		1			I		1		1 1				I .		- I		I			- 1			- 1	1	450 000 Kč	450 000 Kč
Náhledová PTZ kamera				1			I		1						1							1				1	105 000 Kč	105 000 Kč
Dvojice PTZ kamer		L		1			I		1		11				1		- I		1			- 1			- 1	1	190 000 KČ	190 000 Kč
Externí mikrofony				1			I		4						1							1				4	30 000 KČ	120 000 Kč
LCD 55"		L		1			I		1		11				1		- I		1			- 1			- 1	1	45 000 Kč	45 000 Kč
LCD 75"		L		1			I	- 13	2		11				1		- I		1			- 1			- 1	2	65 000 Kč	130 000 Kč
Stojan na LCD				1			I		1						1							1				1	10 000 KČ	10 000 Kč
Digitální flipchart, Stojan		L		1			I	- L:	1		11				1		- I		1			- 1			- 1	1	35 000 KČ	35 000 Kč
Typ "Standard"																												
Sestava VCJ typu "STANDARD", ovládací panel					1	1		1	1	1	1	1	1	1 1	1											11	150 000 Kč	1 650 000 Kč
Externí mikrofony				- 1	1	1		1	1 1	1				1 1								1				9	30 000 KČ	270 000 Kč
LCD 55"		1		- 1		1	1			1			1	1		11	1		1	1	1	1		- 1		1	45 000 KČ	45 000 Kč
LCD 75"				1			I		1	1	1	1	1		1							1				7	65 000 Kč	455 000 KG
Stojan na LCD				1			I	1	1	1	1	1		1	1							1				8	10 000 KČ	80 000 Kč
Sada pro bezdrátové sdílení obsahu																												
Základní jednotka, 2 koncové prvky									1						1			1 1								3	45 000 Kč	135 000 Kč
Typ "PLUS-I"				1											1													
Sestava VCJ typu "PLUS-I", ovládací panel				1													T	1						1	1	2	450 000 Kč	900 000 Kč
Typ "STOLNÍ-KAMERA"																												
VCJ typu "STOLNÍ-KAMERA"																		1 1								2	10 000 KČ	20 000 Kč
Typ "STOLNÍ-I"																												
VCI typu "STOLNI-I"				-1											1		1	1		1	1					3	170 000 Kč	510 000 Kč
Sada audiokonferenčni																												
Konferenční systém, příslušenství: 12 mikrofonů				1								1			1		- 1									1	60 000 KČ	60 000 Kč
Sluzby				+		1		-	+	+			+	-	+	H	+	-	-			-			-	-		
Služby podpory provozu komunikačního prostředí a adopce služby Webex (300 člověkodní)				1											1		T		t i							300	11 500 Kč	3 450 000 Kč
		-	-	-		-	-	-	-	-	-	-	-	-	<u> </u>		-	-	-	•		_	-		_			
																										Celke	m - bez DPH [Kč]	13 900 000 Kč
																							1		_			

DPH [Kč] 2 919 000 Kč Celkem - s DPH [Kč] 16 819 000 Kč

## Technická specifikace

1	Úvo	d	2
	1.1	Prov	vozní a infrastrukturní prostředí MHMP2
2	Kon	npone	enty videokonferenčního řešení2
	2.1	Vide	okonferenční jednotky pro montáž na externí displej2
	2.1.	1	Typ "BASIC"2
	2.1.	2	Typ "STANDARD"2
	2.1.	3	Typ "PLUS"
	2.1.	4	Typ "PRO"
	2.2	Integ	grované řešení3
	2.2.	1	Typ "STANDARD-1D-I"
	2.2.	2	Typ "STANDARD-2D-I"4
	2.2.	3	Typ "PLUS-I"
	2.3	Osol	bní videokonferenční jednotky4
	2.3.	1	Typ "STOLNÍ-I"
	2.3.	2	Typ "STOLNÍ-KAMERA"5
3	Přís	lušen	ství5
	3.1	LCD	5
	3.1.	1	LCD 55"5
	3.1.	2	LCD 70"5
	3.1.	3	LCD 82"5
	3.2	Digit	tální flipchart6
	3.3	Sada	a audiokonferenční6
	3.4	Sada	a pro bezdrátové sdílení obsahu6
4	Služ	by po	odpory provozu a adopce6
5	Mís	to pln	ıění7
6	Kon	figura	ace videokonferenčního řešení MHMP a příslušenství8

#### 1 Úvod

#### 1.1 Provozní a infrastrukturní prostředí MHMP

MHMP využívá pro sdílení a týmovou spolupráci cloudovou službu Webex, která je integrována do infrastruktury DC MHMP a do informatického prostředí MHMP (MS AD, MS exchange, klientské aplikace *Webex App*). V rámci uvedeného ekosystému a jako součást služby Webex budou provozovány a spravovány i dále specifikované videokonferenční jednotky (dále jen VCJ).

- Pro všechny níže poptávané VCJ se požaduje nativní registrace do služby Webex cloud.
- Pro všechny níže poptávané VCJ se požaduje funkcionalita umožňující jejich správu (provozní dohled a diagnostika, konfigurační management) z prostředí webové aplikace *Webex Control Hub*, která je součástí cloudové služby Webex.

#### 2 Komponenty videokonferenčního řešení

#### 2.1 Videokonferenční jednotky pro montáž na externí displej

Základní řada videokonferenčních jednotek je určena k montáži na externí obrazovku. Dále je uveden obecný popis minimálních požadavků na VCJ v této kategorii.

#### 2.1.1 Typ "BASIC" – RK Mini

Vhodný pro zasedací místnosti pro 3-5 účastníků.

- Sestava VCJ obsahuje kodek, 4K UHD kameru, mikrofony i reproduktory
- Záběr kamery min. 120°
- Funkce nejlepšího záběru kamery (digitální FullHD výřez účastníků)
- Podpora 4K (pouze sdílení)
- Bezdrátové sdílení
- HDMI vstup pro sdílení
- Podpora jednoho displeje
- Vzdálené ovládání přes dotykový panel

#### 2.1.2 Typ "STANDARD" - RK

Kodek vhodný pro zasedací místnosti do 7 účastníků.

- Sestava VCJ obsahuje kodek, 5K UHD kameru, mikrofony i reproduktory
- Vstupy pro min. 2 externí mikrofony (3,5 mm jack)
- Záběr kamery min 80°
- Funkce nejlepšího záběru kamery (digitální FullHD výřez účastníků)
- Funkce výřezu aktivního mluvčího (digitální FullHD výřez)
- Podpora 4K (pouze sdílení)
- Bezdrátové sdílení
- HDMI vstup pro sdílení
- Podpora dvou displejů

• Vzdálené ovládání přes dotykový panel

#### 2.1.3 Typ "PLUS" – RK Plus

Kodek vhodný pro větší a tvarem delší zasedací místnosti do 14 účastníků.

- Sestava VCJ obsahuje kodek, 5K Quad kameru, naváděcí mikrofony a reproduktory
- Externí stolní nebo stropní mikrofony (min 3 ks 3,5 mm jack osazení podle konfigurace)
- Záběr kamery min. 80°
- Funkce nejlepšího záběru kamery (digitální FullHD výřez účastníků)
- Funkce výřezu aktivního mluvčího až do vzdálenosti 9 metrů (digitální FullHD výřez)
- Podpora 4K (pouze sdílení)
- Bezdrátové sdílení
- HDMI vstup pro sdílení
- Podpora dvou displejů
- Vzdálené ovládání přes dotykový panel

#### 2.1.4 Typ "PRO" – <mark>RK PRO</mark>

Kodek vhodný pro velké, školící a prezentační místnosti s možností montáže do rozvaděče.

- Požadavky na kodek:
  - Podpora až 3 kamer (osazení podle konfigurace):
    - Quad kamera
      - Funkce nejlepšího záběru kamery (digitální FullHD výřez účastníků)
      - Funkce výřezu aktivního mluvčího až do vzdálenosti 9 metrů (digitální FullHD výřez)
    - Dvojice PTZ kamer
      - Pro záběr aktivního mluvčího až do vzdálenosti 9m
    - PTZ náhledová kamera
  - Externí stolní nebo stropní mikrofony (min 8 ks Euroblock osazení podle konfigurace)
  - Podpora 4K (pouze sdílení)
  - Bezdrátové sdílení
  - o HDMI vstupy pro sdílení
  - Podpora tří displejů
- Vzdálené ovládání přes dotykový panel

#### 2.2 Integrované řešení

V této kategorii se jedná o VCJ v sestavě, která obsahuje kodek, mikrofony, reproduktory a jeden nebo vice zobrazovačů v jednom integrovaném celku.

#### 2.2.1 Typ "STANDARD-1D-I" – Room55

Sestava vhodná pro zasedací místnosti do 7 účastníků

- Sestava VCJ obsahuje kodek, 5K kameru, mikrofony i reproduktory, zobrazovací jednotku 55"
- Min. 2 externí mikrofony (3,5 mm jack)
- Záběr kamery min 80°
- Funkce nejlepšího záběru kamery (digitální FullHD výřez účastníků)
- Funkce výřezu aktivního mluvčího (digitální FullHD výřez)
- Podpora 4K (pouze sdílení)
- Bezdrátové sdílení
- HDMI vstup pro sdílení
- Podpora druhého externího displeje
- Vzdálené ovládání přes dotykový panel

#### 2.2.2 Typ "STANDARD-2D-I" – Room55Dual

Sestava vhodná pro velké zasedací místnosti do 12 účastníků

- Sestava VCJ obsahuje kodek, 2x zobrazovací jednotku 4K 55", 5K kameru, mikrofony pro záběr aktivního mluvčího a reproduktory
- Externí stolní nebo stropní mikrofony (min. 3ks Minijack osazení podle konfigurace)
- Podpora 4K (pouze sdílení)
- Bezdrátové sdílení
- HDMI vstupy pro sdílení
- Vzdálené ovládání přes dotykový panel

#### 2.2.3 Typ "PLUS-I" – Webex Board

Typ "PLUS-I" kombinuje VCJ, bezdrátové sdílení a dotykový displej s funkcionalitou kreslící tabule.

- Sestava VCJ obsahuje kodek, 4K kameru, mikrofony (12ks) i reproduktory
- Displej 4K úhlopříčka 55"
- Min 80° záběr kamery
- Funkce nejlepšího záběru kamery (digitální FullHD výřez účastníků)
- Podpora 4K (pouze sdílení)
- Bezdrátové sdílení
- HDMI vstup pro sdílení
- Kreslení whiteboard
- Možnost vzdáleného ovládání přes dotykový panel
- 2.3 Osobní videokonferenční jednotky

#### 2.3.1 Typ "STOLNÍ-I" - DeskPro

- VCJ pro osobní použití jednotlivce, provedení stolní
- 27" 4K dotyková obrazovka
- Lze použít jako 2. displej k počítači s možností plynulého přechodu do funkce videokonference
- Min. 70° záběr FullHD kamery

- Nabíjení připojeného PC USB-C konektor (využití i pro jiné komunikační platformy než Cisco Webex)
- Kombinuje v sobě kodek, 4K displej, FullHD kameru, mikrofony i reproduktory
- Bezdrátové sdílení
- HDMI vstup pro sdílení
- Ovládání přímo přes dotykovou obrazovku jednotky
- Virtuální pozadí bez použití PC
- Kreslení whiteboard

#### 2.3.2 Typ "STOLNÍ-KAMERA" - WebexCam

- Kamera pro osobní použití jednotlivce jako periferní zařízení PC
- Automatický záběr obličeje kamera 4K
- USB-C rozhraní
- Všesměrové mikrofony (2x)
- Integrovaná krytka pro diskrétní režim
- Flexibilní možnost uchycení na displej či notebook

#### 3 Příslušenství

#### 3.1 LCD

3.1.1 LCD 55"

- Úhlopříčka obrazovky: 55"
- Rozlišení panelu: 3840 x 2160p
- Poměr stran: 16:9
- Jas displeje min. 350 cd/m2
- Provozní režim: na šířku, min. 16/7
- Uchycení: VESA
- Stojan pro svislou montáž (volitelná komponenta podle konfigurace)

#### 3.1.2 LCD 70"

- Úhlopříčka obrazovky: 70"
- Rozlišení panelu: 3840 x 2160p
- Poměr stran: 16:9
- Jas displeje min. 350 cd/m2
- Provozní režim: na šířku, min. 16/7
- Uchycení: VESA
- Stojan pro svislou montáž (volitelná komponenta podle konfigurace)

#### 3.1.3 LCD 82"

- Úhlopříčka obrazovky: 82"
- Rozlišení panelu: 3840 x 2160p
- Poměr stran: 16:9
- Jas displeje min. 350 cd/m2
- Provozní režim: na šířku, min. 16/7

- Uchycení: VESA
- Stojan pro svislou montáž (volitelná komponenta podle konfigurace)

#### 3.2 Digitální flipchart – Flip55"

- Úhlopříčka obrazovky: 55"
- Rozlišení: 3840 x 2160
- Rozhraní: USB, HDMI-in, HDMI-out
- Jas displeje: 350 cd/m2
- Doba odezvy: 8 ms
- Montáž: stojan, nebo stěna
- Pero: pasivní, bez nabíjení
- Odstranění obrázku: prstem, rukou
- Uchycení: VESA
- Jazyk ovládání: čeština

#### 3.3 Sada audiokonferenční

- Konferenční systém pro příjem audiosignálu ve skupině s potlačováním přeslechů a echa
- Počet účastníků / mikrofonů: možnost min. 20 (osazení podle konfigurace)
- Individuální nastavování hlasitosti
- Poslech i hovor současně
- Připojení k centrální VCJ

#### 3.4 Sada pro bezdrátové sdílení obsahu - Barco

- Sada obsahuje základní jednotku (připojení k VCJ) a 2 koncové prvky (připojení k PC)
- Rozhraní pro sdílení z PC: USB/USB-C
- Počet uživatelů: min. 20
- Podporované platformy: Windows 10 a vyšší, macOS 10.14 a vyšší
- Video výstup: 1920 x 1080, HDMI
- Audio výstup: HDMI, audio (3.5 mm jack)
- Počet současných zobrazení: 2
- WiFi standard: IEEE 802.11 a/g/n, 2,4/5 GHz
- Autentizace: WPA2-PSK
- Dosah: min. 20 m

#### 4 Služby podpory provozu a adopce

- správa a technická podpora integrace služby Webex v informačním prostředím MHMP
- konzultační podpora uživatelům videokonferenční jednotek při používání služby
- konzultační podpora uživatelů s přidělenou licencí (typu Host) ke službě Webex
- L3 podpora dodavateli služeb správy/podpory koncových stanic v rozsahu aplikačního vybavení Webex
- poskytování školení uživatelů

- profylaxe systému 1x ročně
- pravidelný reporting (dle odst. 9.1.14. Smlouvy)

Objem služeb podpory a provozu se předpokládá v celkovém rozsahu 300 člověkodní po dobu trvání smluvního vztahu, a sice na úrovni SLA 5x8x36 (nahlášení požadavku telefonicky, mailem, přes web-rozhraní aplikace typu Servise Desk).

#### 5 Místo plnění

<b>Zkratka objektu</b> — viz Konfigurace	Počet místností (instalací)	Adresa
JUNG	5	Škodův palác, Jungmannova 35/29, Praha 1
ADR	1	Palác Adria, Jungmannova 36/31, 11121 Praha 1
BCV	3	Business Centrum Vyšehrad, Na Pankráci 1685/17,19, Praha 4
DSCB	1	Nad Vršovskou horou 88/4
DSCV	1	Na Výběžku 11, Praha 9
ŘÁS	3	Řásnovka 8, Praha 1
NR	12	Mariánské náměstí 2/2, 11000 Praha 1
RYT	2	Rytířská 406/10, 11000 Praha 1

Pro účely instalaci a zprovoznění jednotlivých komponent či zařízení je zajištěna síťová konektivita v místnosti (datová zásuvka LAN RJ45) a zásuvka 220V. Nepředpokládají se stavební úpravy.

Vzájemné funkční provázání komponent a zařízení se provede registrací ve službě Webex cloud.

## 6 Konfigurace videokonferenčního řešení MHMP a příslušenství

Komponenty JNG 6655 DR 544 CV 0097 CV 4014 CV 6070 SCB 212 SCV 11	ŘÁS	G 554 .37	(1	4											_	
JNG 665 DR 544 CV 0097 CV 4014 CV 6070 SCB 212	ŘÁS		(1	4								1				
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ryp "PLUS-I"																_
Sestava VCI typu "PLUS-I", ovládací panel								H	-						1	
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## Samsung SMART Signage QBN Series

Bring Creative Content Ideas to Life through Intelligent Picture Quality

Samsung's QBN Series displays deliver content with added precision and visual impact while also improving operational efficiency. Through advanced UHD picture quality, the QBN Series displays foster an inviting and memorable viewing environment in any indoor setting. Additionally, Backed by the powerful TIZEN operating system, the QBN Series displays feature a host of business-ready functionalities while also protecting business and customer data through enhanced security measures.

## Highlights

- Revitalize customer engagement in retail and transportation settings
- Elevate content quality through a unique combination of picture-enhancing features
- Facilitate secure, PC-free meetings through rigid three-layer protection
- Manage performance and identify potential disruptions with detailed remote monitoring
- Maintain content integrity through dust-resistant exterior glass

## SAMSUNG

## **Industry Trend**

As businesses seek to extend viewer engagement and reinforce their own branding, many see advanced digital signage as a versatile and effective solution. Businesses want to showcase content as crisply and clearly as possible, with new innovations such as UHD picture quality offering customers something new and exciting. Beyond graphic precision and accuracy, businesses also seek new technologies that make their lives easier. This flexibility ranges from features that expand operational capabilities and reduce maintenance to the maximization of data security and protection.

## Why Samsung QBN Series?

As more businesses turn to UHD displays for differentiation, Samsung's QBN Series offers the ideal customer engagement forum. The QBN Series is programmed with Samsung's Intelligent Picture Quality abilities, including its three core technologies: Intelligent UHD, Intelligent Picture Mode and Intelligent HDR+. The Intelligent PQ capabilities create the ideal platform for businesses to display elite content. Recent advancements have made our signage offerings even stronger and empower businesses to develop and deploy content with the confidence that it will perform continuously.







## **Key Features**



#### Share Intelligent, High-Quality Content

The QBN Series displays leverage Samsung's Intelligent Picture Quality technology to elevate content delivery in any setting. This refined presentation transforms content from any source to UHD-level quality, and optimizes on-screen text and imagery with crisp edges and fine detail.



#### **Streamline Operational Efficiency**

The embedded MagicINFO Player S6, backed by the powerful TIZEN operating system, boosts the displays overall performance, allows for painless content management and ensures seamless content transition and playback.



#### **Empower Secure and Remote Collaboration**

Samsung's KNOX platform provides rigid three-layer protection while also securing and controlling USB and user network exchange through dedicated signage device management. With added security, businesses can facilitate remote, PC-free meetings without risk or complexity.



#### **Enjoy Convenien Display Management**

The QBN Series' integrated centralized infrared receiver (IR) ensures easier and more flexible user control. Each display receives signals on individual panels via Central IR, and users can navigate the IR functionality from various locations to further augment uninterrupted performance.



#### **Maintain Continuous Display Performance**

Beyond security and content management, QBN Series users can trust the displays' remote management for fast, efficient issue mitigation. Users can monitor and diagnose irregularities – both on their own and with help from Samsung's Network Operations Center – from any location.



#### **Shield Content from Outside Interference**

The QBN Series' durable, IP5x-validated design ensures continuous content delivery regardless of environmental conditions. As a result, transportation hubs and other arenas susceptible to dust, dirt and lighting exposure can activate and run the displays without an external enclosure.

## **Specification**

	MODE	-	QB43N	QB49N	QB55N	QB65N	QB75N			
	Diagonal Size	Class	43	49	55	65	75			
		Measured	42.5	48.5	54.6	64.5	74.5			
	Type		New Edge	New Edge	New Edge	New Edge	New Edge			
	Resolution Pixel Pitch (mm)		UHD (3840 x 2160) 0.2451 x 0.2451	UHD (3840 x 2160) 0.093 x 0.279	UHD (3840 x 2160) 0.105 x 0.315	UHD (3840 x 2160) 0.372 x 0.372	UHD (3840 x 2160) 0.42975 x 0.42975			
	Active Display Area		941.184 (H) x 529.416 (V)	1073.78 (H) x 604.00 (V)	1209.6 (H) x 680.4 (V)	1428.48 (H) x 803.52 (V)	1650.24 (H) x 928.26 (V)			
	Brightness (Typ.)		350	350	350	350	350			
Panel	Contrast Ratio (Typ.)		5000 : 1	4000 : 1	4000 : 1	6000 : 1	6000 : 1			
	Viewing Angle (H/V)		178 / 178	178 / 178	178 / 178	178 / 178	178 / 178			
	Response Time (G to		8ms	8ms	8ms	8ms	8ms			
	Display Colors	-,	16.7M	16.7M	16.7M	16.7M	16.7M			
	Color Gamut		72%	72%	72%	72%	72%			
	Operation Hour		16 / 7	16 / 7	16 / 7	16 / 7	16 / 7			
	Haze		0%	2%	2%	2%	2%			
	Dynamic C/R		MEGA	MEGA	MEGA	MEGA	MEGA			
Display	H-Scanning Frequen	су	30 ~ 81kHZ	30 ~ 81kHZ	30 ~ 81kHZ	30 ~ 81kHZ	30 ~ 81kHZ			
Display	V-Scanning Frequen	су	48 ~ 75HZ	48 ~ 75HZ	48 ~ 75HZ	48 ~ 75HZ	48 ~ 75HZ			
	Maximum Pixel Freq	uency	594MHz	594MHz	594MHz	594MHz	594MHz			
Sound	Speaker Type				Built in Speaker (10W + 10W)					
		RGB	DVI-D	DVI-D	DVI-D	DVI-D	DVI-D			
		VIDEO	HDMI 2.0 (2)	HDMI 2.0 (2)	HDMI 2.0 (2)	HDMI 2.0 (2)	HDMI 2.0 (2)			
	INPUT	HDCP	HDCP2.2	HDCP2.2	HDCP2.2	HDCP2.2	HDCP2.2			
		AUDIO			Mini Jack, DVI/HDMI/Audio(Co					
		USB	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2			
Connectivit		RGB	N/A	N/A	N/A	N/A	N/A			
Connectivity		VIDEO	N/A Storeo mini lask	N/A Storeg mini lask	N/A Staraa mini lask	N/A Storeg mini lask	N/A Storeg mini Jack			
	OUTPUT	AUDIO Power Out	Stereo mini Jack N/A	Stereo mini Jack N/A	Stereo mini Jack N/A	Stereo mini Jack N/A	Stereo mini Jack N/A			
		USB	N/A N/A	N/A N/A	N/A	N/A N/A				
	EXTERNAL CONTROL		IN/A		N/A C (in/out) thru stereo jack, RJ4		N/A			
	EXTERNAL SENSOR	-	IR	IR	IR	IR	IR			
	Tuner		N/A	N/A	N/A	N/A	N/A			
	Туре		Internal	Internal	Internal	Internal	Internal			
	Power Supply		menner		)0-240 V~(+/- 10%), 50/60 Hz		mernin			
		Max [W/h]	121	132	143	176	220			
Power		Typical [W/h]	76	91	96	125	159			
	Power Consumption		110	120	130	160	200			
		Sleep mode	0.5	0.5	0.5	0.5	0.5			
		Off mode	N/A	N/A	N/A	N/A	N/A			
	Dimension (mm)	Set	970.2 x 563.2 x 58.5	1102.8 x 637.8 x 59.4	1238.6 x 714.2 x 59.0	1457.5 x 837.3 x 59.4	1684.6 x 966.7 x 60.4			
	Sincision (IIIII)	Package	943.2 x 531.4 x 1081.5	1075.8 x 606.0 x 1233.7	1211.6 x 682.4 x 1389.4	1430.5 x 805.5 x 1640.6	1652.2 x 930.3 x 1895.0			
	Weight (kg)	Set	10	13.5	17.8	25.2	37.8			
Mechanical		Package	13.3	17.7	22.4	33.1	50.6			
Spec	VESA Mount		200 x 200	200 x 200	200 x 200	400 X 400	400 X 400			
	Protection Glass		N/A Faat Stand (Optional)	N/A Faat Stand (Optional)	N/A Foot Stand (Optional)	N/A	N/A			
	Stand Type		Foot Stand (Optional)	Foot Stand (Optional)	Foot Stand (Optional)	No 17 5 (Tau Cida)	No 1( 2(tau aida)			
	Bezel Width (Top/Side/Bot) (mm		13.5 (Top,Side),	13.5 (Top,Side),	13.5 (Top,Side),	13.5 (Top,Side),	16.2(top,side),			
			17.7 (Bottom)	17.7 (Bottom)	17.7 (Bottom)	17.7 (Bottom)	19.3(bottom)			
Operation	Operating Temperat	ure	0°C ~ 40°C	0°C ~ 40°C 10 ~ 80%	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C			
	Humidity		10~80%		10~80%	10~80%	10 ~ 80%			
	Key		UHD S	ignage Display Slim & Light S	Signage with Built-in MagicIn	to S6, SSSP 6.0				
			Ter	nperature Sensor,Pivot Displ	ay, Clock Battery(168hrs Cloc	k Keeping),				
	Special	H/W			er(10W 2ch), <b>I</b> P5x, Wi <b>-</b> Fi					
		C /IM	Auto Course Culture	ing & Decovery LED Light	II Button Lock Lint kou anti-	Diug 2 Diau (Initial Catting)				
		S/W	Auto Source SWITCH	• •	II, Button Lock, Hot key optior	i, Flugariay (initial Setting)				
		Processor		Coretex A721	I.7GHz Quad-Core CPU					
		On-Chip Cache		1 Instruction Cacho - ARKP /	L1 Data Cache : 32KB / L2 Cac	he · 2MB				
		Memory	L	- modiaction cache : 40KD /		and . 2010				
Feature		Clock Speed			1.7GHz					
		Main Memory Interface		2.5GB / LF	PDDR4 1.5GHz 64bit					
	Internal Player	Creation		Graphic res	olution : 1920x1080,					
	(Embedded H/W)	Graphics	Out		Scale up from graphic proces	sing result.)				
		Storage (FDM)			ied by O/S, 4.12GB Available)					
						64/10/10				
		Multimedia	*Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder : AC3 (DD), MPEG							
		10.0	VC-	.,		( <i>John</i> ) ( <i>H</i> ) ( <i>G</i> )				
		IO Ports			USB 2.0					
	Cafaty	Operating System			4.0 (VDLinux)					
Contification	Safety				60950-1					
Certification	EMC			ENEDO	Class A Y STAR 7.0 (USA)					
	Environment									
	Included		Quick	< Setup Guide, Warranty Carc	l, Power Cord, Remote Control	ller, Batteries				
		Stand			itand Accessory					
A					141407005					
Accessories	Ontional	Mount			MN4070SE					
Accessories	Optional	Mount Specialty Media Player			MN4070SE CML400XK N/A					

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#### SMART Signage

For more information about Samsung SMART Signage QBN Series Displays, visit www.samsung.com/business or www.samsung.com/displaysolutions

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Samsung Electronics Co., Ltd. 129 Samseong-ro, Maetan-dong, Yeongtong-gu, Suwon, Gyeonggi-do, Korea

2018-5



## **ClickShare CSE-200**

Wireless presentation system for small to medium sized meeting rooms



- Wireless connection to central screen
- Up to 2 users on-screen
- Share from laptop, tablet or smartphone
- Enhanced security features
- Touch back support
- Central management
- Delivered with 2 Buttons

Creativity is one of the core assets of your organization. With ClickShare, you can make sure ideas receive the attention they deserve. This wireless presentation system allows users to simply share what's on their laptop or mobile device, on the presentation screen. No cables, no set-up, no waiting to join in.

#### Find out what's new in the latest ClickShare update

#### Plug in to stand out

The CSE-200 offers the ClickShare experience for small and medium-sized meeting rooms. Anyone – including guests – can connect with one click and share right away, without the need for any training. Users simply plug a USB-powered device – the ClickShare Button – into their PC or Mac and click the button to get the content from their laptop on the large meeting room screen. With the ClickShare Apps, users can also share content from their laptops, mobile phones or tablets. Make sure to have the latest firmware installed on your Base Unit to enable the best experience with the Desktop App.

#### **Encouraging collaboration**

The CSE-200 was designed for enterprise rollouts and offers enhanced security features, a wider range of connectivity options – including AirPlay and Google Cast support for non-HDCP content – Touch back function and central management. Allowing up to 2 persons to share content simultaneously, the CSE-200 ensures direct connectivity to the central screen and encourages collaboration. For user convenience, security features of the CSE-200 can be set to one of three predefined levels, depending on the company's policies and needs. Last but not least, the device's API also makes integration into the company network a lot easier. ClickShare also enables the touch back function in your meeting rooms. Run any application from your laptop and control it



from the screen. With a few touches on the screen, open presentations, share mails, start a video. Focus on audience and content instead of on your presentation tool.

The CSE-200 is a product created with ISO 27001 certified flows and processes.

Adding ClickShare CSE-200 to your fixed conference room set-up (like a Microsoft Teams or Zoom room) enhances productivity and collaboration in your Microsoft Teams and Zoom meetings. It brings the focus from conferencing back to truly collaborating.

PRODUCT SPECIFICATIONS	CLICKSHARE CSE-200
General specifications	
Operating system	Windows 10 32 & 64 bit macOS 10.14/10.15 (Catalina) Android 9 & 10 (ClickShare app) iOS 11, 12 & 13 (ClickShare app)
Video outputs	1x HDMI 1.2
Output resolution	1920x1080 @60Hz
Audio	Via HDMI, analog via Audio Jack 3.5mm, S/PDIF
AirPlay Support	iOS 11, 12 & 13 / macOS 10.14, 10.15
Google Cast Support	Android 9, 10
Frame rate	Up to 30fps*
Number of sources simultaneous on screen	2
Number of simultaneous connections	16
iPad, iPhone and Android compatibility	Sharing of documents, browser, camera for both Android and iOS devices via ClickShare app or using AirPlay / Google Cast
Extended desktop	Available for Windows, requires ClickShare Extension Pack.
Authentication protocol	WPA2-PSK in stand-alone mode WPA2-PSK or IEEE 802.1X using the ClickShare Button in network integration mode
Wireless transmission protocol	IEEE 802.11 a/g/n
Reach	Adjustable with signal strength modulation; max. 30m (100 ft) between ClickShare Button and ClickShare Base Unit
Frequency band	2.4 GHZ and 5 GHz (DFS channels not supported)
Connections	1x Ethernet LAN 100Mbit 2x (back) + 1x (front) USB Audio analog line out on mini jack socket (3.5mm), digital S/PDIF
Noise Level	Fanless
Temperature range	Operating: 0°C to +40°C (+32°F to +104°F) Max: 35°C (95°F) at 3000m Storage: -20°C to +60°C (-4°F to +140°F)
Humidity	Storage: 0 to 90% relative humidity, non-condensing Operation: 0 to 85% relative humidity, non-condensing
Anti-theft system	Kensington lock
Certifications	FCC/CE
Warranty	3 years standard Possible to extend to 5 years
*Note	*In optimal WiFi conditions with minimal WiFi interference and as measured during our quality validation. Check Network Deployment Guide for more info on WiFi optimisation and ideal configuration depending on your network environment.
ClickShare Base Unit dimensions	
Dimensions (HxWxD)	205mm x 115mm x 45mm (excl. antennas) / 8.1° x 4.5° x 1.8° 205mm x 150mm x 135mm (incl. antennas) / 8.1° x 5.9° x 5.3°
Power supply	Standard 110/220 V AC plug or Power over Ethernet (PoE Plus)
Power consumption	Operation: 6W (typical) / 18W (max) Standby: 2.6W (ECO standby) / 0.4W (Deep standby)
Weight	600g / 1.32lbs

#### Last updated: 23 Dec 2021

Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.

BARCO

#### All-round expertise

Philips Communication, Security and Imaging is a global supplier of products and systems for on-site Communication and Closed-Circuit Television applications. The on-site Communication activity comprises Congress, Public Address and Paging. The CCTV capabilities range from plug-and-play observation products (POS) to integrated systems incorporating cameras, monitors, lenses, switcher, transmission solutions and control systems. The company has its headquarter in Eindhoven (The Netherlands), with regional centers and factories in USA, Europe and Asia.

## CCS 800 Discussion System **DATA BROCHURE**



## www.philipscsi.com

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Philips Communication, Security & Imaging

Let's make things better.





## **CCS 800 Discussion System**

#### Contents

troduction		
duction	 	 

B 3330/00	Delegate Unit
B 3330/50	Delegate Unit with Long Microphone
B 3331/00	Chairman Unit
B 3331/50	Chairman Unit with Long Microphone.
B 3312/00	Transport and Storage Suitcase
B 3312/10	Transport and Storage Suitcase
B 3316/05	Extension Cables
B 3316/10	Extension Cables
B 3316/00	Extension Cable
B 3517/00	Cable Locking Clamps

/20	Hand-Held Condenser Microphone
/20	Hand-Held Condenser Microphone
/01	Floor Stand
/01	Adjustable Boom
/30	Cable, 3-pole XLR
/00	Under the Chin Headphone
/50	Replacement Ear Pads
/00	Single Earphone
/04	High-Quality Dynamic Headphones
16451	Replacement Ear pads
/00	Lightweight Headphones
/50	Replacement Ear Pads

System electrical and electro-acoustical characteristics
CPSU inputs and outputs
System limits
Combined units
System environmental conditions
Microphones
Headphones
1 Icaupitones

I. Introduction		1.1	Introduction	
2 Contribution E	nuinmont			
2. Contribution E		2.1		
LBB 3330/00	Delegate Unit			
LBB 3330/50	Delegate Unit with Long Microphone			
LBB 3331/00	Chairman Unit		Contribution	2
LBB 3331/50	Chairman Unit with Long Microphone		_	
LBB 3312/00	Transport and Storage Suitcase		Equipment	
LBB 3312/10	Transport and Storage Suitcase			
LBB 3316/05	Extension Cables			
LBB 3316/10	Extension Cables			
LBB 3316/00	Extension Cable	2.4	Central Control	3
LBB 3517/00	Cable Locking Clamps	2.4		
			Equipment	
3. Central Contro	l Equipment			
LBB 3310/00	Control and Power Supply Unit	3.1		
LBB 3311/00	19-inch Rack-Mounting Set		•	
00	-,		Accessories	4
4. Accessories				
LBB 9510/20	Hand-Held Condenser Microphone	41		
LBB 9512/20	Hand-Held Condenser Microphone			
LBC 1221/01	Floor Stand			
LBC 1226/01	Adjustable Boom		TIND	
LBC 1220/01 LBC 1208/30			Technical Data	5
	Cable, 3-pole XLR			
LBB 3441/00	Under the Chin Headphone			
LBB 3441/50	Replacement Ear Pads	4.2		
LBB 3442/00	Single Earphone			
LBB 3015/04	High-Quality Dynamic Headphones		<b>A I</b> • <i>i</i> <b>I</b>	
8222 321 16451	Replacement Ear pads		Architects and	6
LBB 3440/00	Lightweight Headphones		Consultants	
LBB 3440/50	Replacement Ear Pads	4.2	Consultants	
			Specifications	
5. Technical Data			opeenicacions	
	d electro-acoustical characteristics			
CPSU inputs and c	outputs	5.1		
System limits		5.2		
Combined units		5.2		
System environmer	Ital conditions	5.2		
-				
	Consultants Specifications			
	Equipment			
2. Contribution Eq	uipment	6.2		
Using this data br	ochure			
	rs listed on this page cover the main systems and indi	vidual		
	ese groups for convenient reference.	, iduai		
categories within th	the groups for convenient reference.			

It is possible to locate any section quickly by thumbing to the corresponding tab number on the outer margin of each page.

## **CCS 800 Discussion System**

#### **Architects and Consultants Specifications**

#### **Chairman Unit with Long Microphone**

This unit shall be identical to the standard Chairman Unit, except that the stem length of the microphone shall be 488 mm (19.2 in).

#### Transport and Storage Suitcase for 10 contribution units

The transport and storage suitcase shall be used to protect contribution units in transit or while in storage. It shall have the capacity to hold 10 contribution units with standard-length microphones. Any combination of delegate/chairman units shall be catered for. The inside of the suitcase shall have specially moulded packing to accommodate the discussion units, which shall give ample protection, while making packing and unpacking easier. The suitcase shall have handles on the top and side, and two wheels on the underside for ease of transportation. There shall be two separate locks for extra security. The suitcase shall be 560 mm (22.0 in) high, 795 mm (31.3) wide and 235 mm (9.2 in) deep. The weight of the empty suitcase shall be 6 kg (13.2 lb). The material used shall be 3 mm (0.12 in) thick ABS. The colour shall be RAL 9004 (black).

#### Transport and Storage Suitcase for CPSU and 10 contribution units

This suitcase shall be functionally identical to the Transport and Storage Suitcase for 10 contribution units, except that it shall have the capacity to hold one CPSU and six contribution units with either standard or extended microphone stems, and some extension cables. The suitcase shall be 560 mm (22.0 in) high, 795 mm (31.3) wide and 235 mm (9.2 in) deep. The weight of the suitcase shall be 6 kg (13.2 lb). The material used shall be 3 mm (0.12 in) thick ABS. The colour shall be RAL 9004 (black).

#### **Extension Cable Assembly**

The extension cable assembly shall consist of 5 m (197 in) and 10 m (394 in) of 6 mm (0.24 in) diameter cable terminated at one end with a moulded 7-pole male circular connector, and at the other end with a moulded 7-pole female circular connector. The installation cable shall consist of 100 m (3940 in) of 6 mm (0.24 in) diameter cable plus 5 connector sets, male & female (7-pole circular)

#### Set of 25 Cable Locking Clamps

A set of Cable Locking Clamps shall match male and female cable connectors, such as those on Extension Cable Assemblies. Each male/female connector shall require one clamp.

#### Architects and Consultants Specifications

#### 19-Inch Rack-Mounting Set

This set shall consist of brackets and other necessary fixings to enable the CPSU to be mounted in a 19-inch rack system. Flush-mounting of the CPSU shall be possible by using a custom-made bracket.

#### 2. CONTRIBUTION EQUIPMENT

#### **Delegate Unit**

The Delegate Unit shall enable delegates to speak and listen to the proceedings via a loudspeaker or headphones. The unit shall include a microphone with a red indicator ring which shall illuminate when the microphone is on. To prevent acoustic feedback, the built-in loudspeaker shall be muted when the microphone is on, and/or the headphones are connected. Two 3.5 mm stereo headphone sockets (wired for mono) shall allow two pairs of headphones to be connected, enabling two delegates to simultaneously use the unit. The headphone volume level shall be adjustable on the unit for maximum comfort. It shall also be possible to connect a tape recorder to one headphone socket, and use the other headphone socket to listen to the proceedings. The unit shall have the following controls and indicators:

- Microphone with light-ring indicator which illuminates when the microphone is on
- Microphone on/off button
- 'Microphone on' indicator (red LED)
- Rotary volume control for adjusting headphone volume
- Loudspeaker, automatically muted when microphone is on and/or headphones are connected

Each unit shall have a 2 m (78.7 in) cable terminated with a moulded 7-pole circular connector, and a 7-pole circular socket for loop-through connections. There shall be two 3.5 mm (0.1 in) stereo jack headphone sockets. The front panel shall be 63 mm (2.5 in) high and 124 mm (4.9 in) wide, and the unit footprint shall be 63 mm (2.5 in) x 172 mm (6.8 in). The weight of the unit shall be approximately 0.9 kg (2.0 lb). The stem length of the microphone shall be 313 mm (12.3 in).

#### Delegate Unit with Long Microphone

This unit shall be identical to the standard Delegate Unit, except that the stem length of the microphone shall be 488 mm (19.2 in).

#### **Chairman Unit**

The Chairman Unit shall enable the user to function as chairman of a conference or meeting. It shall be similar in appearance to the Delegate Unit, and shall also include a 'chairman priority' button. When pressed, the priority button shall cause all currently active delegate microphones to be temporarily or permanently muted, allowing the chairman to take control of the meeting. To prevent acoustic feedback, the built-in loudspeaker shall be muted when the microphone is on, and/or the headphones are connected. An optional chime shall be selectable to precede chairman priority calls. The unit shall have the following controls and indicators:

- Chairman priority button
- Microphone on/off button
- Rotary volume control for adjusting headphone volume
- Microphone with light-ring indicator which illuminates when the microphone is on
- 'Microphone on' indicator (red LED)
- Internal chime selection switch
- Internal switch for temporary or permanent muting of delegate microphones when chairman priority key is pressed
- Loudspeaker, automatically muted when microphone is on and/or headphones are connected

**Note:** Both of the above internal switches shall be accessible by first removing a small plastic plate on the bottom of the Chairman Unit. If any Delegate Unit is permanently muted on activation of a 'microphone priority' key, it shall be possible to reactivate it using the 'microphone on' button on the Delegate Unit.

Each unit shall have a 2 m (78.7 in) cable terminated with a moulded 7-pole circular connector, and a 7-pole circular socket for loop-through connections. There shall be two 3.5 mm (0.1 in) stereo jack headphone sockets. The front panel shall be 63 mm (2.5 in) high and 124 mm (4.9 in) wide, and the unit footprint shall be 63 mm (2.5 in) x 172 mm (6.8 in). The weight of the unit shall be approximately 0.9 kg (2.0 lb). The stem length of the microphone shall be 313 mm (12.3 in).

Introduction



The Philips CCS 800 Discussion System is a versatile, economical discussion system intended for small-scale meetings and gatherings. It provides all the facilities required to control meetings and discussions, and allows delegates to communicate with each other by means of microphones and built-in loudspeakers or personal headphones. It delivers high speech intelligibility, and is ideal for venues such as local government councils, hotel conference rooms, training and educational venues, company board rooms and congress venue breakout rooms.

#### Simple to install

The system is quick and easy to install, and requires no special training. Each unit is fitted with a 2 m (78.7 in) cable terminated with a plug, and a socket. The units are simply plugged into each other in a 'daisy chain' configuration, with the first unit connected to one of the two Central Power Supply Unit (CPSU) trunk outputs. In this way up to 50 contribution units can be connected (25 units per trunk output) 100 contribution units on request. Extension cables are available to connect units together which are located more than 2 m (78.7 in) from each other. A test mode on the CPSU checks that all connections have been correctly made.

#### Easy and convenient to use

Once installed, the CCS 800 is simple to set up, and easy to use. Before the meeting begins, a suitable microphone mode can be selected on the CPSU, and other parameters such as loudspeaker volume are set. The system is then ready for use, and will automatically control the conference, for example by limiting the number of microphones simultaneously active, or by allowing delegates to override each other. Settings can also be altered during a meeting, if required.

Users simply have to press a button on the delegate unit to activate the built-in microphone (the microphone only comes on if the selected operating mode permits). The microphone is mounted on a flexible stem, which is easily adjustable to suit personal preferences. It also allows two people to use the same delegate unit, as they can pull the microphone towards them when required to speak. The units have two headphone sockets, so each delegate can listen to the proceedings in comfort. The headphone volume can be adjusted using a built-in volume control.

## **CCS 800 Discussion System**

#### Extend system possibilities

If required, a graphic equaliser can be connected to the CPSU to improve the sound quality. An external microphone can be connected to facilitate guest speakers or audience participation, and a background music source can also be added. The CCS 800 interfaces with a public address system, to broadcast the proceedings to a wider audience. Delegates can participate remotely via telephone by means of a telephone coupler connected to the CPSU. A tape recorder can also be connected to record and playback some or all of the proceedings.

#### Attractive and modern design

The CCS 800 contribution units have a modern unobtrusive styling, with smooth, rounded contours, and are finished in charcoal grey. They are a valuable addition to any venue.

#### Main system elements

The Philips CCS 800 Discussion System comprises the following system elements:

#### CPSU

The CPSU forms the heart of the system, and controls the microphones of the chairman and delegate units, as well as providing connections for audio inputs and outputs. It supplies the power for all delegate and chairman units in the system. Only one CPSU is needed in a CCS 800 configuration.

#### **Contribution units**

There are two kinds of contribution unit; chairman units and delegate units. Both types of contribution unit are available with standard (313 mm, 12.3 in) or with extended (488 mm, 19.2 in) microphone stems.



#### I. CENTRAL CONTROL EQUIPMENT

#### **Control and Power Supply Unit**

The Control and Power Supply Unit (CPSU) shall include features for managing the number of active microphones and determining the operating mode, without the need for a central operator. It shall be possible to connect external equipment to extend the system capabilities. There shall be a built-in loudspeaker to allow the conference to be monitored by, for example, a stenographer.

- It shall interface the following equipment to the Analogue Discussion System:
- Graphic equaliser for improving the sound quality under difficult acoustic conditions
- Tape recorder for recording and playing back meetings and discussions
- External PA system for transmitting the proceedings to an audience in the same room or an adjacent room
- External microphone for use by guest speakers or for audience participation

Note: The external microphone shall be muted when the priority button on a chairman unit is pressed, and when the system is operating in 'chairman only' mode.

- Audio equipment for providing background music
- Telephone coupler for allowing a remote delegate to take part via telephone

The following five modes shall be selectable using a rotary control on the unit's front panel:

- Open mode with auto-switch-off shall allow selection of the number of microphones, from one to four, which can be simultaneously active. If the delegate does not speak for 30 seconds, the microphone shall automatically be switched off. It shall also be possible to switch microphones off manually.
- Open mode without auto-switch-off shall allow selection of the number of microphones, from one to four, which can be simultaneously active.
- possible for one microphone to be active at any one time.

#### *Note:* In override mode, delegates shall not be able to override chairmen.

- even if no chairman is speaking.
- contribution unit LEDs shall light up if the unit is properly connected.

The CPSU shall have the following controls and indicators:

- Mains on/off switch
- Microphone-mode switch for selecting one of four modes (plus test mode)
- Rotary loudspeaker volume control for setting the output level of loudspeakers of contribution units. This control shall also determine the maximum level for the headphone outputs of contribution units and CPSU.
- Monitoring volume control of CPSU loudspeaker or headphones
- 'Power on' green LED indicator

It shall provide the following interconnection facilities:

- Mains input connection
- Two trunk outputs for loop-through connection of contribution units. It shall be possible to connect a maximum of 25 contribution units to each output. The maximum cable length shall be not less than 100 m (109.3 yds). 100 contribution units can be connected in one system on request.
- Microphone input with gain adjustment for connecting an external microphone
- Recorder input and output with gain control
- Line input and output for connecting a PA system or background music source • Telephone coupler input and output for connecting a telephone line. The input signal shall be isolated from the
- output to prevent echoing.
- Insertion connector (with by-pass switch) for connecting a graphic equaliser
- One 3.5 mm (0.1 in) stereo headphone socket

It shall be suitable for use in portable or fixed mountings. It shall be 84 mm (3.4 in) high, 361 mm (14.2 in) wide and 143 mm (5.6 in) deep. It shall weigh 1.5 kg (3.3 lb). A suitable version for North and Central America, UL and cUL certified shall also be available.

Delegate units enable participants to actively take part in the conference. A built-in microphone allows them to speak to the other delegates, and they can listen to the discussion by means of a built-in loudspeaker, or by using personal headphones. Two headphone sockets are provided, so two delegates can share the same delegate unit. A built-in volume control is used to adjust the headphone output. A microphone on/off button allows each delegate to activate his/her microphone. In addition, an auto-switch-off function, which automatically switches off the microphone if the delegate does not speak for 30 seconds, can be selected on the CPSU. The number of microphones that can be simultaneously active is determined by a control on the CPSU.

Chairman units have a priority button which allows any chairman to temporarily or permanently overrule and mute all active delegate microphones, and so control the discussion. There is also an optional chime tone facility for preceding chairman announcements. Chairman units also perform all the functions of delegate units.

#### Operating and controlling the system

Four microphone modes are available:

- Open mode with auto switch-off selects how many microphones - from one to four - can be simultaneously active. Microphones are automatically switched off if a delegate does not speak for 30 seconds.
- Open mode without auto switch-off is functionally identical to open mode with auto switch-off, except that microphones are not automatically switched off after 30 seconds.
- *Override mode* allows participants to override each other simply by pressing the 'microphone on' button. There is only ever one active delegate microphone in this mode.
- Chairman only mode allows only chairman units to be activated.

In the first three modes, delegates and chairmen simply press the large 'microphone on' button on their units to activate or deactivate their microphones. Chairmen can override delegates' microphones by pressing the 'chairman priority' button on chairman units. Delegates and chairmen can easily alter the volume of their headphones using the built-in volume control, with the maximum volume being determined by a setting on the CPSU.

Fixed or temporary installations

The CCS 800 is ideal for both fixed and temporary installations. The contribution units are intended for table-top use, and the CPSU has three mounting possibilities. It can be used table-top, or flushmounted in the desk using a special bracket. For permanent installations, it can also be installed in a 19-inch rack using two metal brackets.

To facilitate moving the system between temporary installations, two transport and storage suitcases are available. One can accommodate 10 contribution units with standard microphone stem length. The other can hold one CPSU, six contribution units (with either standard or extended microphone stem length) and extension cables. This means that the CCS 800 can be safely and easily stored and transported between application sites. The lightweight system units are easy to carry and pack, making the CCS 800 an attractive choice for rental companies.

The CCS 800 Discussion System forms part of the Philips range of congress systems. This includes the Digital Congress Network (DCN), DCN Discussion System and Wireless Language Distribution System.

1.2

## **CCS 800 Discussion System**

• Override mode - shall allow delegates to override each other simply by activating their microphones. It shall only be

· Chairman only mode - shall only allow chairmen to speak. It shall not be possible to activate delegates' microphones,

• Test mode - shall be used to check that the system connections have been made correctly. All microphone ring and

## **CCS 800 Discussion System**



**Example 1 - basic discussion system** The kind of situation represented by this example is typical of small-and medium sized venues such as local government meeting rooms, hotel conference facilities, boardrooms or training/educational venues. The CCS 800 gives structure to the proceedings, while ensuring good speech intelligibility throughout the room.

Each contribution unit is fitted with a 2 m (78.7 in) cable terminated with a plug, and a socket. A maximum of 50 (100 units on request) units are simply plugged into each other in two 'daisy chain' loops of up to 25 units each. In this example there is one chairman unit for extra control over the proceedings, with a priority button which can temporarily or permanently mute all delegate unit microphones. Nineteen delegate units are also connected.

The CPSU provides both microphone management and power for all contribution units. It also interfaces with external equipment such as a tape recorder, and a microphone for guest speakers or audience participation.



System limits

INTRODUCTION



#### Example 2 - conference with interpretation

This example is typical of larger-scale international conferences. Extra facilities are provided, in particular a wireless distribution system to allow delegates and members of the audience to listen to simultaneous interpretations of the floor language. The floor language is also transmitted to the audience via a public address amplifier and loudspeakers. Additional equipment includes one Hand-Held Microphone which can be used by members of the audience.

Conference participants are centrally positioned and take part in the conference proceedings using CCS 800 contribution units as described in Example 1. They can also listen to simultaneous interpretations of the floor language by means of an Infra-Red Receiver and a pair of headphones.

Interpreters are located in interpreter booths and equipped with LBB 3222/04 6-channel Interpreter Desks and LBB 9095/30 Headphones. Up to two Interpreter Desks can be placed in each booth, and are simply loop-through connected. They allow generation of simultaneous interpretations of the floor language, which are then transmitted to delegates and the audience using the infrared distribution system.

The infra-red distribution system consists of an Infra-Red Transmitter which is connected to the LBB 3222/04 Interpreter Desks and the LBB 3310/00 Control and Power Supply Unit. It receives the interpretations and transmits them to the Infra-Red Radiators, which are strategically positioned to cover the conference area. Delegates and members

of the audience each have an Infra-Red Receiver and a pair of lightweight headphones. They can select the language of their choice by means of a channel selection facility on the receiver, and listen to it through headphones. A volume control is provided on each receiver.

The LBB 3310/00 Control and Power Supply Unit provides microphone management and power for the contribution units, and interfaces with a Philips Public Address Mixing Amplifier, and the Infra-Red Transmitter, both of which are conveniently mounted in a 19-inch rack.

#### **Technical Data**

#### **Microphones**

	LBB 9510/20	LBB 9512/20	
Туре	hand-held	hand-held	
Polar pattern	cardioid	cardioid	
Frequency range (after filter setting)	100 Hz to 16 kHz	100 Hz to 16 kHz 200 Hz to 16 kHz 350 Hz to 16 kHz 100 Hz to 18.5 kHz	
Sensitivity	2 mV/Pa ±3 dB	2 mV/Pa ±3 dB	
Rated output impedance	200 Ω	<200 Ω	
Phantom power supply	11 to 52 V	11 to 52 V	
Current consumption	1.5 mA	1.5 mA	

#### Headphones

LBB 3441/00	
Туре	Under the chin
Impedance	300 Ω
Frequency response	50 Hz to 5 kHz (-10 dB)
Max. power	60 mW
Sensitivity (1 kHz)	107 dB SPL/earpiece at 1 dBV/system

#### LBB 3442/00

Туре	Dynamic	
Impedance	32 Ω	
Frequency response	100 Hz to 5 kHz (-10 dB)	
Max. power	5 mW	
Sensitivity	II4 dB SPL at I mW	

#### LBB 3015/04

Туре	Dynamic
Impedance	360 Ω
Frequency response	250 Hz to 13 kHz (-10 dB)
Max. power	200 mW
Sensitivity (1 kHz)	97 dB SPL/earpiece at 0 dBV/system (96 o
Replacement earpads	8222 321 16451

#### LBB 3440/00 Dynami

туре	Dynamic
Impedance	300 Ω
Frequency response	80 Hz to 15 kHz (-10 dB)
Max. power	100 mW
Sensitivity (1 kHz)	87 dB SPL/earpiece at 0 dBV/system (85
Replacement earpads	LBB 3440/50

## **CCS 800 Discussion System**

dB SPL/earpace at 1 mW/system)

dB SPL/earpiece at 1 mW/system)

#### **Technical Data**

#### System limits

#### Delegate and chairman units Number of contribution units connected to CPSU Maximum in total 50 (100 units on request) 25 Maximum per trunk output Maximum trunk length using 100 m CCS 800 standard cabling

#### Auto microphone switch-off function (selectable on the CPSU)

Contribution unit

after 30 seconds without speech (sound level below 64 dB SPL) the microphone is automatically switched off

#### **Combined units**

**TECHNICAL DATA** 

5

Delegate microphones with transmission links to delegate headphones and auxiliary outputs.

General	
Typical frequency control	125 Hz to 12.5 kHz tolerances acc. to IEC 914 standard
Total harmonic distortion at nominal input level (85 dB SPL) at max. input level (110 dB SPL)	<0.5% <3%

#### System environmental conditions

General	
Ambient temperature range operating: contribution units CPSU storage and transport	+5 to +45 °C (+41 to 113 °F) +5 to +55 °C (+41 to 131 °F) -20 to +70 °C (-4 to 158 °F)
Ambient humidity operating storage	20 to 95% RH up to 99% RH
Air pressure	600 to 1100 mBar
Safety	according to EN 60065, according to UL/CSA
Shock resistance, vibration resistance, bump and transport	according to IEC 68, 5G acceleration
EMC emission	according to EN 55103-1, FCC rules (part 15) class A
EMC immunity	according to EN 55103-2
ESD	according to IEC 801-2 and 801-4
Mains harmonics	prepared to EN 61000-3-2 and EN 61000-3-3
Transport	UN-D 1400

#### Examples $\frown$ Loudspeaker Infra-red Radiate Ċ ĽЪУ Ś F F 30 [ La L ł 25 þ F F F 2012 3 F ł F F F Ę, F $\Delta$ ΛŢ КŢ 5 0

#### Example 3 - conference with telephone link

This example illustrates a single-language conference with the added facility of a telephone link, which allows delegates to contribute to the proceedings from a remote location.

A telephone coupler is connected to the LBB 3310/00 Control and Power Supply Unit, providing a global telecommunications link, allowing delegates from anywhere in the world to contribute, either

alone or in groups. Video conferencing is also possible by using video conferencing equipment, so remotely-located delegates can be seen on conference displays as well as heard on loudspeakers and contribution units.

Conference participants take part as described in Example 1. Members of the audience can listen to the conference proceedings by means of a loudspeakers fed by a public address amplifier, as described in example 2.

## **CCS 800 Discussion System**



INTRODUCTION

Delegates or guest speakers can take advantage of the wireless microphone facility to speak and give presentations, without being hampered or restricted in their movements. A graphic equaliser is used to improve the sound quality.

The LBB 3310/00 Control and Power Supply Unit provides microphone management and power for the contribution units, and interfaces with a Philips Public Address Mixing Amplifier and a graphic equaliser. These units and the wireless microphone receiver are conveniently mounted in a 19-inch rack.

# INTRODUCTION

Π

## **CCS 800 Discussion System**

#### **Technical Data**

Conforming to the international standard IEC 914; Conference systems - electrical and audio requirements.

#### System electrical and electro-acoustical characteristics

CPSU	
Mains voltage	100 to 2
Current consumption	max. 0.
d.c. supply to contribution units	24 V ±
Loudspeaker volume control	mute (5
Limiter threshold level to unit	I0 dB a
Gain reduction due to Number of open microphones (NOM)	√NOM

#### **CPSU** inputs and outputs - unbalanced

Line, telephone and insertion	
Input sensitivity	-14 dBV
Input impedance	33 kΩ
Output level	-14 dBV
Output impedance	500 Ω

## Tape recorder

Input sensitivity	-20 dBV
Input sensitivity adjustment	0 dBV (n
Input impedance	<b>47</b> kΩ (f
Output level	-20 dBV
Output impedance	500 Ω

External microphone input - balanced		
Input sensitivity	-56 dBV	
Input sensitivity adjustment	+6 dBV	
Phantom supply	12 V ± 1	

Monitor loudspeaker	
Output level at 0.5 m	72 dB SF
Frequency response	320 Hz
Impedance	25 Ω
Volume control	50 dB at

Monitor headphone - stereo jack socket		
Output level	-8 dBV (r	
Output impedance	22 Ω	
Allowed impedance	any impe	
Volume control	50 dB att	

240 Va.c. ± 10 %

.9 A (100 Va.c.) to 0.3 A (240 Va.c.)

I V (current limited)

50 dB att.) + 10 steps of 1.9 dB

above nominal level loudspeaker/headphone

1 ± I dB

V (nominal)/+11 dBV (maximum)

V (nominal)/+11 dBV (maximum)

(nominal)/+5 dBV (maximum)

nominal)/-20 dBV (maximum)

for left and right channel)

(nominal)/+5 dBV (maximum)

(nominal)/-6 dBV (maximum)

I V, 2 x 680  $\Omega$  (± 2%), acc. to DIN45596

SPL (nominal)/82 dB SPL (maximum) z to 10 kHz (-10 dB, reference 1 kHz)

attenuation range

nominal)/+2 dBV (maximum)

edance

ttenuation range

#### Headphones

#### LBB 3441/00

#### Under the Chin Headphone

Lightweight headphone for under the chin use. Fitted with a 1.2 m (47.2 in) cable terminated with a 3.5 mm (0.14 in) jack plug.

#### Technical data

Weight

Colour

ACCESSORIES

#### LBB 3441/50

#### Replacement earpads for LBB 3441/00

33 g (0.07 lb)

black

Set of 1000 replacement earpads for headphone LBB 3441/00, allowing optimal hygiene in the use of these headphones.

#### LBB 3442/00 Single Earphone

Lightweight single earphone, fitted with a 1.2 m (47.2 in) cable terminated with a 3.5 mm (0.14 in) jack plug.

Technical data		
Weight	25 g (0.06 lb)	
Colour	dark grey	

#### LBB 3015/04

#### **High-Quality Dynamic Headphones**

Durable dynamic headphones offering high-quality sound reproduction. Fitted with a 1.2 m (47.2 in) cable terminated with a 3.5 mm (0.14 in) jack plug.

Technical data		
Weight	90 g (0.20 lb)	
Colour	black/grey	

8222 321 16451 Replacement Ear Pads for LBB 3015/04 Headphones

Single pair of replacement ear pads for headphones LBB 3015/04.

#### LBB 3440/00

Lightweight Headphones

Technical data		
Weight	84 g (0.19 lb)	
Colour	black	

#### LBB 3440/50 Replacement Ear Pads for LBB 3044/00 Headphones

Set of 50 pairs of replacement ear pads for headphones LBB 3440/00, allowing optimal hygiene in the use of these headphones. Each pair is individually packed.

	/		-	
6		_		
0		-		6.6
	-			

#### **Contribution Equipment**

#### LBB 3330/00

- **Delegate Unit**
- · Compact, attractive delegate unit
- Microphone with flexible stem and light ring
- Built-in loudspeaker
- Two headphone sockets
- Built-in volume control for headphones

The LBB 3330/00 delegate unit enables delegates to speak and listen to the proceedings via a loudspeaker or headphones. This stylish and ergonomically-designed unit includes a microphone with a red indicator ring which illuminates when the microphone is on. To prevent acoustic feedback, the built-in loudspeaker is muted when the microphone is on. Two 3.5 mm (0.14 in) stereo headphone sockets (wired for mono) allow two pairs of headphones to be connected so two delegates can simultaneously use the unit. The headphone volume level can be adjusted on the unit for maximum comfort. It is also possible to connect a tape recorder to one headphone socket, and use the other headphone socket to listen to the proceedings.

#### **Controls and indicators**

- Microphone with light-ring indicator which illuminates when the microphone is on
- Loudspeaker, automatically muted when microphone is on and/or headphones are
- connected
- Microphone on/off button
- 'Microphone on' indicator (red LED)
- Rotary volume control for adjusting headphone volume

#### Interconnection

- 2 m (78.7 in) long cable terminated with a moulded 7-pole circular connector for loopthrough connection to delegate unit or CPSU
- 7-pole circular female socket for loop-through connection to delegate units • Two 3.5 mm (0.14 in) stereo headphone sockets

Technical data	
Mounting	table top (portable or fixed mounting)
Dimensions (H x W x D)	63 x 124 x 172 mm (2.5 x 4.9 x 6.8 in) (v Height is 127 mm (5.0 in) with microphor
Length of microphone from mounting surface	313 mm (12.3 in)
Weight	0.9 kg (2.0 lb)
Colour	cover; charcoal (PH 10736). base; black (

#### LBB 3330/50 **Delegate Unit with Long Microphone**

This unit is identical to the LBB 3330/00 Delegate Unit, except that the stem length of the microphone is 488 mm (19.2 in).





## **CCS 800 Discussion System**



without microphone). ne in horizontal position)

(PH 80007)



2

#### **Contribution Equipment**

#### LBB 3331/00

Chairman Unit

2

EQUIPMENT

CONTRIBUTION

- Priority button for chairman microphone
- Temporary or permanent muting of delegate microphones
- Optional chime tone facility for preceding chairman announcements
- Incorporates all functions of LBB 3330/00 Delegate Unit
- Microphone with flexible stem and light ring

This stylish and ergonomically-designed chairman unit enables the user to function as chairman of a conference or meeting.

Similar in appearance to the LBB 3330/00 Delegate Unit, the LBB 3331/00 Chairman Unit also includes a 'chairman priority' button. When pressed, the priority button causes all currently active delegate microphones to be temporarily or permanently muted, allowing the chairman to take control of the meeting. An optional chime can be selected to precede chairman priority calls.

#### **Controls and indicators**

- Chairman priority button
- Microphone on/off button
- Rotary volume control for adjusting headphone volume
- Microphone with light-ring indicator which illuminates when the microphone is on
- 'Microphone on' indicator (red LED)
- Internal chime selection switch
- Internal switch for temporary or permanent muting of delegate microphones when chairman priority switch is pressed
- Loudspeaker, automatically muted when microphone is on and/or headphones are connected

**Note:** Both of the above internal switches are accessible by first removing a small plastic plate on the bottom of the chairman unit. If any delegate unit is permanently muted on activation of a 'chairman priority' button, the microphone must be reactivated using the 'microphone on' button on the delegate unit.

#### Interconnection

- 2 m (78.7 in) cable terminated in a moulded 7-pole circular connector for connection to delegate unit or CPSU
- 7-pole circular female socket for loop-through connection to delegate units
- Two 3.5 mm (0.14 in) stereo headphone sockets

Technical data	
Mounting	table top (portable or fixed mounting)
Dimensions ( $H \times W \times D$ )	$63 \times 124 \times 172 \text{ mm}$ (2.5 x 4.9 x 6.8 in) (without microphone). Height is 127 mm (5.0 in) with microphone in horizontal position)
Length of microphone from mounting surface	313 mm (12.3 in)
Weight	0.9 kg (2.0 lb)
Colour	cover; charcoal (PH 10736). base; black (PH 80007)

2.2





#### Accessories

#### LBB 9512/20 and LBB 9510/20 Hand-Held Condenser Microphones

The LBB 9512/20 is a condenser microphone with frequency-independent cardioid directivity. It features switchable filters for modifying the frequency response. In addition to the on/off switch, a low-frequency cut switch, and a high-frequency boost switch are provided. A 3-pole male XLR connector is fitted in the base of the housing. It is supplied with an adjustable angle quick-release clamp with a Whitworth-threaded screw fitting with multi-thread adaptor (3/8", 1/2" and 5/8") for mounting purposes. For suitable connection cable, refer to page 4.2. The LBB 9510/20 is a similar microphone, but has no filters.

Technical data LBB 9512/20 and LBB 9510/20		
Mounting	using a clamp on floor or table stand	
Dimensions (L x Dia)	210 x 53 mm (8.3 x 2.1 in)	
Weight	300 g (0.7 lb)	
Colour	dark grey (PH 10714)	

#### LBC 1221/01 and LBC 1226/01 Floor Stand and Adjustable Boom

Collapsible matt black floor stand, height adjustable from 85 to 160 cm (33.5 to 62.7 in). The widely-spaced legs ensure good stability. The head of the stand has a standard 3/8" Whitworth thread. The adjustable matt black boom has a quick-release boom lock. Maximum boom reach 67 cm (26.4 in). Fitted with a 3/8" Whitworth thread for connecting to floor stand LBC 1221/01.

Technical data LBC 1221/01		
Dimensions (H x W)	folded 850 x 110 mm (33.5 x 4.3 in)	
Weight	2.4 kg (5.3 lb)	
Colour	black	

Technical data LBC 1226/01		
Dimensions (length)	840 mm (33.1 in)	
Weight	700 g (1.5 lb)	
Colour	black	

#### LBC 1208/30

- Cable, 3-pole XLR
- 10 m (394 in) extension cable (black)
- Twin-core screened cable
- 3-pole lockable male and female XLR connectors (metal)

## **CCS 800 Discussion System**









#### **Central Control Equipment**

#### Interconnection

- Mains input connection
- Two trunk outputs for loop-through connection of contribution units. A maximum of 25 contribution units can be connected to each output. The maximum cable length is 100 m (109.3 yds).
- Microphone input with gain adjustment for connecting an external microphone
- Recorder input and output with gain control
- Line input and output for connecting a PA system or background music source
- Telephone coupler input and output for connecting a telephone line. The input signal is isolated from the output to prevent echoing.
- Insertion connector (with by-pass switch) for connecting a graphic equaliser
- One 3.5 mm (0.14 in) stereo headphone socket

Note: A custom-made mounting bracket is recommended for flush-mounting the CPSU. For an example of this bracket, refer to the CCS 800 installation and operating instructions.

Technical data	
Mounting	table top (portable orfixed mounting)
Dimensions (H x W x D)	84 x 361 x 143 mm (3.4 x 14.2 x 5.6 in) incl. 5.5 mm (0.22 in) feet
Weight	I.5 kg (3.3 lb)
Colour	cover; charcoal (PH 10736). base; black (PH 80007)

### LBB 3311/00

19-Inch Rack-Mounting Set

A set of brackets and other necessary fixings to enable the CPSU to be mounted in a 19-inch rack system.

Technical data

Colour

## charcoal (PH 10736)

**Contribution Equipment and Accessories** 

#### LBB 3331/50 Chairman Unit with Long Microphone

This unit is identical to the LBB 3331/00 Chairman Unit, except that the stem length of the microphone is 488 mm (19.2 in)

#### LBB 3312/00

#### **Transport and Storage Suitcase**

- Can accommodate up to ten contribution units
- Attractive finish, yet sturdy construction
- Simplify packing and unpacking
- Easy to carry and store

This transport and storage suitcase is for use in applications where CCS 800 contribution units will not be used in one fixed location, and therefore has to be easily transportable. This is often the case in town halls, hotels, business centres, local government offices, or smaller halls in major conference venues.

The LBB 3312/00 is designed to accommodate 10 contribution units with standardlength microphones. Any combination of delegate/chairman units can be catered for. The inside of the suitcase has specially moulded packing to accommodate the discussion units, which gives ample protection while making packing and unpacking easier.

The suitcase is attractive but also extremely durable and very practical. It has handles on the top and side, and two wheels on the underside for ease of transportation. There are two separate locks for extra security.

Technical data	
Dimensions ( $H \times W \times D$ )	560 x 795 x 235 mm (22.0 x 31.3 x 9.3 ir
Material:	3 mm (0.12 in) thick ABS
Weight (empty)	6 kg (13.2 lb)
Colour	black (RAL 9004)



## **CCS 800 Discussion System**

3





#### Accessories

#### LBB 3312/10 **Transport and Storage Suitcase**

This is functionally identical to the LBB 3312/00 Transport and Storage Suitcase, except that it can accommodate one CPSU and six contribution units with either standard or extended microphone stems, and some extension cables.



2

#### LBB 3316/05 and LBB 3316/10 **Extension Cables**

Extension cables of 5 m (197 in) (LBB 3316/05) and 10 m (394 in) (LBB 3316/10) are available to give additional system flexibility in larger application sites. The cables are terminated at both ends with moulded 7-pole DIN connectors (male and female).



#### Technical data Grey PVC sheath

5.9 ± 0.3 mm (0.2 ± 0.01 in) dia.

#### LBB 3316/00

**Extension Cable** 

100 m installation cable plus 5 connector sets, male and female.

#### LBB 3517/00 Cable Locking Clamps

A set of 25 matching locking clamps for extension cables LBB 3316/05 and LBB 3316/10. One clamp per male/female connector required.

## **CCS 800 Discussion System**

#### **Central Control Equipment**

#### LBB 3310/00

#### **Control and Power Supply Unit**

- · Conference control without operator
- Four selectable microphone modes and a test mode
- Controls up to 50 contribution units
- · Interfaces the system with external audio equipment
- Provides power for all system elements
- Built-in listening facilities

The Control and Power Supply Unit (CPSU) is the heart of a discussion system. This versatile unit includes features for managing the number of active microphones and determining the operating mode, without the need for a central operator. External equipment can be connected to extend system possibilities. A built-in loudspeaker allows the conference to be monitored (to allow a stenographer, for example, to take notes on the conference).

The CPSU interfaces the following equipment to the CCS 800 Analogue Discussion System:

- Graphic equaliser for optimising the sound quality under difficult acoustic conditions
- Tape recorder for recording and playing back meetings and discussions
- · External PA system for transmitting the proceedings to an audience in the same room or an adjacent room
- External microphone for guest speakers or audience participation

Note: The external microphone is muted when the priority button on a chairman unit is pressed, and when the system is operating in chairman only mode.

- · Audio equipment for providing background music
- Telephone coupler to allow a remote delegate to take part via telephone

The following five modes can be selected using a rotary control on the unit's front panel:

- Open mode with auto-switch-off allows you to select the number of microphones, from one to four, which can be simultaneously active. If the delegate does not speak for 30 seconds, the microphone is automatically switched off. Microphones can also be switched off manually.
- Open mode without auto-switch-off allows you to select the number of microphones. from one to four, which can be simultaneously active.
- · Override mode delegates can override each other simply by activating their microphones. Only one microphone can be active at any one time.

#### Note: In override mode, delegates cannot override chairmen

- · Chairman only mode Only chairmen can speak. Delegates microphones cannot be activated, even if no chairman is speaking.
- · Test mode to ensure that the system connections have been made correctly. All microphone ring and contribution unit LEDs light up if the unit is properly connected.

#### **Controls and indicators**

- Mains on/off switch
- Microphone-mode switch for selecting one of four modes (plus test mode)
- Loudspeaker volume control for setting the output level of loudspeakers of contribution units. This control also determines the maximum level for the headphone outputs of contribution units and CPSU.
- · Monitoring volume control of CPSU loudspeaker or headphones
- Power 'on' indicator (green LED)



3

# Cisco Desk Camera 4K





# Contents

- 03 Product overview
- 04 Features and benefits
- 05 Management features
- 05 Platform support
- 06 Licensing
- 06 Product specifications
- 09 System requirements
- 09 Ordering information
- 10 Warranty information
- 10 Cisco and Partner Services
- 10 Cisco Capital



Cisco Desk Camera 4K is a premium USB web camera that provides high-quality video and audio for video conferencing, video streaming, and video recording.

## **Product overview**

The Cisco Desk Camera 4K is a USB desk camera that can be connected to a personal computer over USB and mounted onto an external monitor, laptop, or tripod. It is compatible with all popular meeting or video applications and enables laptopbased video conferencing anywhere. It brings uncompromised video collaboration experience in open and huddle spaces for office users. It is also ideal for working from home users. The Cisco Desk Camera 4K fulfills the following use cases:

 Instant office: Add video to a monitor for a home setup or office hot desking setup. For example, those who use a laptop docked to an existing independent monitor

- Upgrade video: Upgrades an existing laptop camera to high quality video
- Online Education: for students, teachers who need to join online classes and do not have access to a room or desk system
- Creation and Broadcast: for users broadcasting or creating basic video content who need a quality camera

Available as a fully managed IT asset with centralized device management and insights. It also offers a Cisco Desk Camera app for any Windows or MacOS users to do professional camera settings, firmware upgrade and troubleshooting.

## Features and benefits

Table 1. Features and benefits

FEATURE	BENEFIT
4K ultra HD video	<ul> <li>Provides superior video with outstanding clarity, rich colors, great smoothness, superb resolution and frame rate</li> <li>Enables uncompromised video collaboration from any space</li> </ul>
Light performance	<ul> <li>Excellent video quality in all lighting conditions</li> <li>Helps users always look the best on video calls</li> </ul>
Auto focus	Brings peace of mind by fast, clear and perfectly sharp focus
Adjustable field of view (FoV)	Select the field of view appropriate for your environment
Built-in privacy shutter	<ul> <li>Shutter controls the video streaming on and off to ensure the complete privacy as needed.</li> <li>Video turns off completely via a software switch (rather than only covering your camera lens)</li> </ul>
Audio	<ul> <li>Offers high quality microphone audio via 2x omni-directional microphone with background noise reduction</li> </ul>
Face recognition	<ul> <li>Certifies with Windows Hello and allows secure facial recognition login through the IR sensor</li> </ul>
Multiple connection and mounting options	<ul> <li>Includes both USB C-to-A and USB C-to-C cables for flexible PC connection</li> <li>Multiple placement options with the camera clip and the tripod screw thread</li> </ul>

## **Management features**

Cisco Desk Camera is designed for the changing workplace that has a high demand of laptop-based video conferencing for open and huddle space office users and working from home users. The device management and utilization tracking are essential to IT departments. This single consistent device management experience is available on Control Hub to all Cisco collaboration devices including Cisco Desk Cameras.

#### Table 2. Cisco Desk Camera management features

FEATURE	BENEFIT
Device inventory	Enables easy device management for administrators on Control Hub Reports device inventory to Control Hub via the WebexApp
Firmware upgrade	Supports firmware upgrade and troubleshooting through web-based Cisco Accessory Hub

## **Platform support**

The Cisco Desk Camera is designed to work on Windows and MacOS PC as a standard video device. It is compatible with any Cisco or non-Cisco meeting applications. With more camera controls and features integrated into the Webex App, Webex Meetings, and Cisco Jabber, it gets the best Cisco-on-Cisco integration when working together with the Cisco soft clients.

Table 3. Platform support

PLATFORMS SUPPORTED	DESCRIPTION
Cisco applications	<ul> <li>Supports the following Cisco desktop applications on Windows and Mac OS</li> <li>Webex App</li> <li>Webex Meetings App</li> <li>Cisco Jabber</li> </ul>
3 <sup>rd</sup> party applications	Compatible with all popular meeting or video applications (including Microsoft Teams, Skype for Business, Zoom, Google Meet and Google Hangouts, BlueJeans, Slack, FaceTime, etc.)
# Licensing

Cisco Desk Camera 4K does not require a device specific subscription. Registration to Webex cloud and access to Control Hub is through Webex App.

# **Product specifications**

 Table 4.
 Product specifications

SPECIFICATION	DESCRIPTION
Components	<ul> <li>Fully integrated unit is delivered with:</li> <li>4K image sensor and active LED</li> <li>Dedicated chipset for AI Computer Vision algorithms</li> <li>IR sensor and IR LED</li> <li>2 internal microphones</li> <li>Video privacy shutter</li> <li>USB 3.0 type C port</li> <li>Camera clip</li> <li>Tripod screw thread</li> </ul>
Cables included	<ul> <li>1 USB 3.0 USB-C to USB-A cable</li> <li>1 USB 3.0 USB-C to USB-C cable</li> </ul>
Video features	<ul> <li>4K Ultra HD camera supports video streaming and recording</li> <li>Multiple resolutions and frame rates (up to 4K at 30fps, 1080p/720p at 60fps)</li> <li>13MP image sensor</li> <li>Supports excellent video in various light conditions</li> <li>81° diagonal field of view</li> <li>10x digital zoom</li> <li>Face detection enhanced auto focus</li> <li>Face detection enhanced auto exposure</li> <li>Auto brightness and white balance</li> <li>Built-in video privacy shutter supports video mute and unmute</li> <li>UVC1.1</li> <li>Supports YUY2/NV12/MJPEG video format</li> </ul>

#### Table 4. Product specifications

SPECIFICATION	DESCRIPTION	
Audio features	<ul> <li>High quality 48kHz audio</li> <li>2x omni-directional microphone with background noise reduction</li> <li>UAC1.0</li> </ul>	
USB passthrough	<ul> <li>Ability to provide video and audio over one USB cable to a connected computer</li> </ul>	
Security features	<ul> <li>Secure facial recognition login via the Windows Hello, certified by Microsoft for compliance</li> <li>Image (software load) authentication</li> <li>Physical privacy shutter</li> </ul>	
Physical dimensions (H x W x D)	<ul> <li>Camera: 19.5 mm x 90.64 mm x 41 mm</li> <li>Clip: 17.5 mm x 41 mm x 64.8 mm</li> <li>Packaging size: 66 mm x 166 mm x 137.5 mm</li> </ul>	
Weight	<ul> <li>153 grams</li> <li>Shipping weight (including packaging): 396 grams</li> </ul>	
Operating temperature	0° to 40°C (32° to 104°F) ambient temperature	
Humidity	10% to 90% Relative Humidity (RH)	

#### Table 4. Product specifications

SPECIFICATION	DESCRIPTION
Compliance	<ul> <li>Regulatory compliance:</li> <li>CE Markings per directives 2014/30/EU and 2014/35/EU</li> <li>Safety</li> <li>UL 60950 and 62368</li> <li>CAN/CSA 60950 and 62368</li> <li>IEC 60950 and 62368</li> <li>AS/NZS 60950 and 62368</li> <li>EMC - Emissions</li> <li>47CFR Part 15 (CFR 47) Class B</li> <li>ICES-003 Class B</li> <li>EN55032 Class B</li> </ul>
	<ul> <li>AS/NZS CISPR32 Class B</li> <li>EN61000-3-2 and IEC 61000-3-2</li> <li>EN61000-3-3 and IEC 61000-3-3</li> <li>VCCI Class B</li> <li>EMC - Immunity</li> <li>EN55024</li> <li>CISPR24</li> </ul>
Software and user interface	<ul> <li>Cisco Desk Camera OS</li> <li>Control the camera directly with Cisco Desk Camera App on Windows and Mac OS</li> <li>Upgrade camera firmware from web-based Cisco Accessory Hub</li> </ul>
Language support	<ul> <li>Cisco Desk Camera App supports the following languages:</li> <li>English, English (UK), Dutch, French (Canada), French (France), German, Italian, Portuguese (Brazil), Portuguese (Portugal), Spanish (LATAM), Spanish (Spain), Swedish, Chinese (China), Chinese (Taiwan), Japanese, Korean, Russian</li> </ul>
System management	Cisco Desk Camera is managed in the administrator portal in Control Hub via Webex App

# System requirements

The Cisco Desk Camera 4K is a USB camera that can be connected to a PC. The list below shows the computer system requirements for using the Cisco Desk Camera application.

Table 5. Cisco Desk Camera application system requirements

SYSTEM PART	DESCRIPTION	
Operating system	<ul> <li>Windows 10 with Universal C Runtime and above</li> <li>Mac OS X 10.12 and above</li> </ul>	
CPU*	<ul> <li>I5@2.4 GHz/i7@1.9 GHz Intel processor, or a processor with equivalent capabilities</li> </ul>	
RAM*	16 GB or more	
USB port	<ul> <li>USB-C port</li> <li>USB-A port (USB 2.0 or USB 3.0, 4K video requires USB 3.0 port)</li> </ul>	

# Ordering information

 Table 6.
 Ordering information

PART #	PRODUCT DESCRIPTION
CD-DSKCAM-C-US	Cisco Desk Camera 4K in carbon black for United States (includes USB 3.0 C-to-A and USB 3.0 C-to-C cables)
CD-DSKCAM-C-WW	Cisco Desk Camera 4K in carbon black for worldwide (includes USB 3.0 C-to-A and USB 3.0 C-to-C cables)
CD-DSKCAM-P-US	Cisco Desk Camera 4K in platinum for United States (includes USB 3.0 C-to-A and USB 3.0 C-to-C cables)
CD-DSKCAM-P-WW	Cisco Desk Camera 4K in platinum for worldwide (includes USB 3.0 C-to-A and USB 3.0 C-to-C cables)
CD-CBL-USBC-USBA=	USB 3.0 Spare Cable (USBC - USBA)
CD-CBL-USBC-USBC=	USB 3.0 Spare Cable (USBC - USBC)

## Warranty information

Cisco Desk Camera 4K has a one-year limited liability warranty.

# **Cisco and Partner Services**

Cisco and our partners provide a broad portfolio of smart, personalized services and support that can help you realize the full business value of your Cisco collaboration investment by increasing business agility and network availability. This portfolio of services accelerates business innovation by harnessing the network as a powerful business platform. For more information about these services, please visit <u>cisco.com/go/collaborationservices</u>.

# **Cisco** Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.

For more information

Please visit https://www.cisco.com/go/deskcamera

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Date May 2022

C78-744525-05

webex by cisco

# **Cisco** Desk Pro





# Contents

- 03 Product overview
- 04 Features and benefits
- 05 Prominent features
- 06 Product sustainability
- 07 Product specifications
- 12 Product registration
- 13 Ordering information
- 15 Warranty information
- 15 CSR/Social Responsibility
- 15 Cisco and Partner Services
- 15 Cisco Capital



The Cisco Desk Pro is an industry-leading intelligent collaboration device for desks and shared spaces. Collaborate, co-create, and annotate on an interactive, touch re-direct, 4k-touch display.

## **Product overview**

The Desk Pro is an AI-powered collaboration device for the desk. It is purpose-built for collaboration and features a stunning 4k display, advanced cognitive collaboration capabilities like Webex Assistant and facial recognition, and creative applications like digital whiteboarding. Easily pair your device wirelessly or dock your laptop and quickly join or start your meeting with one button to push. With a USB-C connection, the Desk Pro becomes your all-in-one primary monitor and collaboration device that supports your videoconferencing software of choice.

The Desk Pro delivers the industry-leading collaboration experience customers have come to expect from Cisco. It is consistent—whether you're at your desk, in a shared space, or in a corporate boardroom. Easy deployment and management capabilities allow customers to outfit and support thousands of desks and shared spaces with intelligent collaboration tools typical of larger room systems—at high value—while unique analytics provide valuable insight on utilization for resource planning.

The Desk Pro is designed for personal desk-based collaboration and focus rooms that accommodate one to two people. Packed with all the workplace and workflow capabilities included within Cisco's larger meeting room devices, the Desk Pro is the ultimate desk-based collaboration device.

# Features and benefits

 Table 1.
 Features and benefits

FEATURE	BENEFIT
Premium desk device	<ul> <li>The Cisco Desk Pro provides a high-resolution, 4k-touch experience on an anti-glare, 27-inch screen</li> <li>Co-create with a dedicated stylus that makes whiteboarding simple and clean</li> <li>Easily share content, including presentations, documents, or your desktop</li> <li>Easily join a meeting or make a call using the buttons on the touch display</li> <li>Change your in-meeting background with blurred and virtual background options</li> </ul>
High-end hardware	<ul> <li>Capture a wide-angle view with a camera suitable for 1-2 people</li> <li>Equipped with powerful audio hardware and features that enhance the conferencing experience</li> <li>Microphone array for crystal clear, directional sound pickup</li> <li>Provides exceptional sound quality with 3 directional speakers and a subwoofer</li> <li>Provides a collaboration experience that is as powerful as Cisco's Room Series but designed for the desktop</li> </ul>
USB-C connection	<ul> <li>Functions as your docking station and primary display with a USB-C connection</li> <li>Leverage the meetings software of choice while taking advantage of high-quality conferencing hardware</li> <li>Extend the functionality of your laptop with touch redirect that allows for touch-based PC control</li> <li>Power delivery to your laptop</li> </ul>
Cognitive collaboration	<ul> <li>Includes AI-powered features that provide a frictionless meeting experience and contextual insights</li> <li>Webex Assistant is a voice-controlled assistant that lets you start or join your meeting, book a room, or make a call</li> <li>Facial recognition identifies meeting participants and provides name labels Automatic noise detection and suppression ensures the meeting is free of distracting background noise</li> </ul>
Co-creation	<ul> <li>Easily whiteboard in person on remotely with the dedicated stylus or your finger</li> <li>Automatically save content to a Webex App space</li> <li>Annotate on any content on the display</li> </ul>
Digital signage	<ul> <li>Display on-demand content when the device isn't being actively used</li> <li>Deliver digital signage, channel browsing, alerts, live TV, VoD capabilities, and scheduling</li> </ul>
Flexible deployments	<ul> <li>Registers as a cloud, hybrid or on-premises device</li> <li>Flexible deployment models allow you to decide what deployment option is best for your business</li> </ul>

## **Prominent features**

The Cisco Desk Pro transforms the way you work, collaborate, and co-create from your desk or in a shared space. Featuring a 4k, 27-inch screen, 71-degree 12 MP camera, 3.1 sound system, and advanced noise-canceling mic array, the Desk Pro provides an exceptional video meeting experience.

The Desk Pro is fully enabled for collaboration experiences and includes the same video, audio, ideation, and APIs that are available across the Cisco portfolio. With a USB-C connection, the Desk Pro is your all-in-one docking station and primary monitor, offering a simple, exceptional collaboration experience that extends beyond the Cisco portfolio to support your collaboration tools of choice. It provides the latest and most advanced Webex features, including cognitive collaboration capabilities, digital whiteboarding, and direct access into Webex Meetings and Webex App services.

Features on the Desk Pro were previously the domain of higher-end video conferencing rooms but can now be brought to every desk and every team. When registered to the Webex App, additional cloud-based functionalities are enabled that enhance the user experience and team workflow as well as further simplifying deployment. Some examples:

- Work smarter: AI-powered features like Webex Assistant and facial recognition allow you to easily control your meeting and provide the contextual information you need, when you need it.
- Seamless co-creation: Ideation tools like digital whiteboarding make brainstorming, design, and collaboration easy, whether in person or in a remote meeting.
- Join any meeting: Connecting a laptop with USB-C enables you to join meetings from third-party meeting providers while leveraging the Desk Pro's camera, speaker, and microphone.

#### An affordable way to purchase hardware

Cisco Hardware as a Service provides a new way to purchase hardware with a simple, scalable and flexible way to pay. Stay up to date with the latest models of IP Phones and Cisco Devices to enhance collaboration and create workspaces for the future. And get ready for all the power of Cisco's unified cloud platform! Learn more about Cisco Hardware as a Service and the devices available.

Click here to access the Webex Hardware as a Service datasheet.

# **Product sustainability**

Refer to the CSR/Social Responsibility section for more information on Cisco's environmental sustainability policies and initiatives.

SUSTAINABILIT	ТҮ ТОРІС	REFERENCE
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries and packaging	WEEE Compliance
	Sustainability Inquiries	Contact: csr_inquiries@cisco.com
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Hardware as a Service (Circular Economy)	Features and benefits
	Approvals and compliance	Table 2. Product specifications
Power	Power	Table 2. Product specifications
Material	Product packaging weight and materials	Contact: environment@cisco.com
	Dimensions	Table 2. Product specifications

# **Product specifications**

Table 2. Product specifications

SPECIFICATIONS	DESCRIPTION	
Software compatibility	<ul> <li>Cisco Collaboration Endpoint Software Version 9.12 (CE9.12) or later, or Webex RoomOS</li> </ul>	
Default components shipped with Cisco Desk Pro	<ul> <li>Desk Stand</li> <li>Stylus with two spare tips</li> <li>Network cable 3m/118 in</li> </ul>	
	<ul> <li>USB-C cable (see USB-C BYOD section for details), 1.8 m/70.8 in</li> <li>HDMI 2.0 presentation cable 1.5 m/59 in</li> <li>Power supply Cisco Desk Pro</li> </ul>	
Optional hardware components	<ul> <li>VESA adapter and wall mount kit</li> <li>Replaceable metal speaker grille</li> </ul>	
Display	<ul> <li>27 inch LCD monitor</li> <li>4k resolution (3840x2160) (16:9)</li> <li>High-contrast IPS LED panel</li> <li>Contrast ratio: 1000:1 (typical)</li> <li>Viewing angle: +/- 89° (typical)</li> <li>Brightness 300 cd/m2</li> <li>Color depth 1.07B colors</li> <li>Color gamut 72% NTSC (100% sRGB)</li> </ul>	
User interface	<ul> <li>Projected capacitive touch</li> <li>Optically bonded cover glass</li> <li>Multi-touch</li> </ul>	
Supported PC resolutions	• 080p60, 1440p60, 2160p30 (4K) and 2160p60 (4K)	

#### Table 2. Product specifications

SPECIFICATIONS	DESCRIPTION
Camera	<ul> <li>4k Ultra HD camera</li> <li>71° horizontal field of view, 59° vertical field of view</li> <li>f/2.0 aperture</li> <li>12 MP image sensor, supports up to 30 fps</li> <li>1/2.8" CMOS, Dual Pixel Technology</li> <li>Automatic tilt adjustment</li> <li>Automatic focus, brightness and white balance</li> <li>Focus distance 20 cm to infinity</li> <li>Privacy shutter with LED light</li> </ul>
Video standards	H.264 AVC, H.263 compatibility with TANDBERG MXP endpoints
Video inputs	<ul> <li>USB-C DisplayPort Alternate Mode up to 3840 x 2160p60 (4kp60)</li> <li>HDMI 2.0 type A input supports formats up to 3840 x 2160p60 (4kp60)</li> </ul>
Video outputs	HDMI 2.0 type A output supports formats up to 3840 x 2160p60 (4kp60)*
Encode and decode	<ul> <li>Video Stream: 1920x1080 at 30fps</li> <li>Content stream: 3840x2160 at 15fps</li> <li>3840x2160 at 15 fps content decode from Webex</li> </ul>
Audio standards	• G.711, G.722, G.722.1, G.729, AAC-LD, and Opus
Audio features	<ul> <li>High-quality 20-kHz audio</li> <li>Automatic gain control</li> <li>Automatic noise reduction</li> <li>Active lip synchronization</li> <li>Keyclick suppression</li> </ul>
Audio inputs	<ul> <li>Internal 8-element microphone array for speech</li> <li>USB</li> <li>Bluetooth<sup>®</sup></li> </ul>
Audio outputs (external)	<ul> <li>1 analog headphone output (stereo minijack)</li> <li>USB</li> <li>Bluetooth<sup>®</sup> headset</li> </ul>

\*Functionality

#### Table 2. Product specifications

SPECIFICATIONS	DESCRIPTION
Loudspeakers (integrated)	<ul> <li>High-quality speakers with left, center and right channels enabling directional audio, plus dual woofers in balanced configuration</li> <li>Frequency response 60 Hz to 20 kHz</li> <li>Amplifier power 4 x 14W</li> </ul>
USB-C BYOD	<ul> <li>Ability to provide the following over one USB-C cable to a connected computer</li> <li>Extension of display (3840x2160 @60fps) (Computer must support Alt-mode Display Port)</li> <li>Touch forwarding capabilities on supported operating systems</li> </ul>
	<ul> <li>Use Desk Pro camera, microphone and speakers with any SW client</li> <li>Laptop charging (60W maximum)</li> </ul>
Power	<ul><li>Rated: 200W maximum</li><li>Standby power consumption: 15W</li></ul>
Other USB 2.0 ports	<ul> <li>Three standard type A ports enable headsets and handset use</li> <li>One Micro-B USB port intended for service only</li> </ul>
Audio standards	<ul> <li>Three standard type A ports enable headsets and handset use</li> <li>One Micro-B USB port intended for service only</li> </ul>
Sensors (experimental)	<ul> <li>ALS (Ambient Light Sensor) for automatic brightness adjustment and Control Hub analytics reporting</li> <li>1D Time-of-Flight (LiDAR) for accurate presence detection. Range &lt; 80 centimeters distance and 25 degrees angle</li> <li>Temperature (experimental) for Control Hub analytics reporting. Resolution 0.1°C. Accuracy ±1°C</li> <li>Humidity (experimental) Control Hub analytics reporting. Resolution 1%. Accuracy ±10%</li> </ul>
Operating temperature and humidity	<ul> <li>0°C to 35°C (32°F to 104°F) ambient temperature</li> <li>20% to 90% Relative Humidity (RH</li> </ul>
Storage and transport temperature	<ul> <li>-20°C to 60°C (-4°F to 140°F) at RH 10% to 90% (noncondensing)</li> </ul>

#### Table 2. Product specifications

SPECIFICATIONS	DESCRIPTION
Locking mechanism	Kensington security lock
Dimensions	
	• Width 24.8 in. (63 cm)
	• Height 20.1 in. (51 cm)
	<ul> <li>Depth 3 in. (7.5 cm) without desk stand. 7.1 in. (18 cm) with desk stand attached</li> </ul>
	• Weight 24.4 lb. (11.6 kg)
	When packaged
	• Width 30.7 in. (78 cm)
	• Height 30.7 in. (78 cm)
	• Depth 8.6 in. (22 cm)
	• Weight 35.2 lb. (16 kg)
Ergonomic design	Tiltable screen
	Flippable cable cover and integrated cable management in Desk Stand
Physical buttons	Power button
Touch buttons	Volume up and down LED indicator
	Microphone mute LED indicator
Visual indicator	Camera On LED indicator (camera activation)
Network	<ul> <li>Internal 2-port Cisco Ethernet switch allows for a direct connection to a 10/100/1000BASE-T Ethernet network (IEEE802.3i/802.3u/802.3ab) through an RJ-45 interface with single LAN connectivity for both the phone and a co-located PC</li> </ul>
	• Wi-Fi 802.11a/b/g/n/ac 2.4 GHz and 5 GHz
Bandwidth requirements	Up to 6 Mbps point-to-point

#### Table 2. Product specifications

SPECIFICATIONS	DESCRIPTION
Call control	<ul> <li>Cisco Unified Communications Manager (Unified CM)</li> <li>Native registration with Unified CM</li> <li>Requires Unified CM Version 10.5* or later with latest device pack</li> <li>Cisco Expressway</li> <li>Native registration with Expressway</li> <li>Webex Service</li> <li>Third-party H.323 gatekeepers and standards based SIP proxies</li> </ul>
Peripherals supported	<ul> <li>USB headset</li> <li>Bluetooth<sup>®</sup> headset (wide band)</li> <li>Analog headphone output (stereo minijack)</li> </ul>
Embedded encryption	<ul> <li>Support Webex Encryption, end to end</li> <li>H.323* and SIP point-to-point</li> <li>Standards-based: H.235 v3 and Advanced Encryption Standard (AES)</li> <li>Automatic key generation and exchange</li> </ul>
Wireless sharing	<ul> <li>Webex App</li> <li>Webex Meetings</li> <li>Cisco Proximity App</li> </ul>
Approvals and compliance	<ul> <li>Directive 2014/53/EU (Radio Equipment Directive) for the radio versions</li> <li>Directive 2014/30/EU (EMC Directive) for the non-radio versions</li> <li>Directive 2014/35/EU (Low-Voltage Directive) for the non-radio versions</li> <li>Directive 2011/65/EU (RoHS)</li> <li>Directive 2002/96/EU (WEEE)</li> <li>NRTL approved (product safety)</li> <li>FCC CFR 47 Part 15B (EMC) - Class A</li> <li>FCC CFR 47 Part 15C (RF)</li> <li>FCC CFR 47 Part 15E (RF)</li> <li>FCC Listed (radio equipment)</li> </ul>
Multipoint support	5-way embedded SIP/H.323 conferencing capability with MultiSite option

#### Table 2. Product specifications

SPECIFICATIONS	DESCRIPTION
MultiSite features (Embedded multipoint)	<ul> <li>Adaptive SIP/H.323* MultiSite:</li> <li>3-way, resolution up to 1080 at 30 fps plus content up to 4K at 15 fps</li> <li>4-way, resolution up to 720 at 30 fps plus content up to 4K at 15 fps</li> </ul>
(optional upgrade)	<ul> <li>5-way, resolution up to 720 at 30 fps plus content up to 4K at 10 fps</li> <li>Full individual audio and video transcoding</li> <li>H.323*, SIP, and Audio only in the same conference</li> <li>Best impression (automatic continuous presence layouts)</li> <li>Encryption and dual stream from any site</li> </ul>

\*Proprietary Cisco version

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# **Product registration**

Table 3.Product registration

LICENSE TYPE	PART NUMBER
Webex Device Cloud Subscription	A-FLEX-C-DEVICE (A-FLEX-DEVICE)
Webex Device On-Premises Subscription	A-FLEX-P-DEVICE (A-FLEX-DEVICE) (Room Device License)
Unified CM TelePresence Room Based Endpoint License	A-FLEX-P-DEV-11X A-FLEX-P-DEV

# Ordering information

Table 4. Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER	
Cisco Desk Pro - Upfront GPL	CS-DESKPRO-K9	TTC7-27	
Cisco Desk Pro – No radio	CS-DESKPRO-NR-K9	TTC7-27	
Cisco Desk Pro – TAA (for U.S Government)	CS-DESKPRO-K9++	TTC7-27	
Cisco Desk Pro - No radio TAA (for U.S Government)	CS-DESKPRO-NR-K9++	TTC7-27	
Cisco Desk Pro – No radio, no encryption	CS-DESKPRO-NR-K7	TTC7-27	
SOFTWARE OPTIONS (ORDERED SEPARATELY)			
Remote Monitoring	L-DESK-SERIES-RM (L-TP-RM)		
Multisite (embedded multipoint)	LIC-DESKPRO-MS (L-ROOM-PAK)		
SPARES			
Cisco Desk Pro – Upfront GPL – SPARE <sup>1</sup>	CS-DESKPRO-K9=	TTC7-27	
Cisco Desk Pro – No Radio – SPARE <sup>1</sup>	CS-DESKPRO-NR-K9=	TTC7-27	
Cisco Desk Pro – No radio, no encryption – SPARE <sup>1</sup>	CS-DESKPRO-NR-K7=	TTC7-27	

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#### Table 4. Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Desk Stand for Cisco Desk Pro - SPARE	CS-DESKPRO-STAND=	
VESA Adapter and Wall Mount Kit for Desk Pro	CS-DESKPRO-VESA=	
Fabric speaker grille for Cisco Desk Pro	CS-DESKPRO-FG=	
Metal speaker grille for Cisco Desk Pro	CS-DESKPRO-MG=	
Power adapter for Cisco Desk Pro	CS-PWR-CUBE-7=	FSP230-A20C14
Cisco Desk Pro Stylus Kit (2x stylus, 4x tips)	CS-DESK-STYLUSKIT=	

1 For service purposes only. Spare units only include the main unit and desk stand, no cables or accessories.

## Warranty information

Cisco Desk Pro has a 90-day limited liability warranty.

# **CSR/Social Responsibility**

Information about Cisco's environmental, social and governance (ESG) policies and initiatives can be found in Cisco's Corporate Social Responsibility (CSR) report.

# **Cisco and Partner Services**

Cisco and our partners provide a broad portfolio of smart, personalized services and support that can help you realize the full business value of your Cisco collaboration investment by increasing business agility and network availability. This portfolio of services can accelerate business innovation by harnessing the network as a powerful business platform.

For more information about these services, visit: cisco.com/go/collaborationservices.

# **Cisco** Capital

Flexible payment solutions to help you achieve your objectives.

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.

November 2022



Learn more about the Cisco Desk Pro.

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## ılıılı cısco

# **Cisco TelePresence Precision Cameras**

When you need the best clarity for video conferencing, the Cisco TelePresence<sup>®</sup> Precision Camera portfolio not only delivers a premier imaging experience, but also gives you a high level of flexibility for easy integration into meeting rooms, boardrooms, and special industry projects.

Precision Cameras provide a powerful imaging solution for custom integration into meeting rooms of all sizes.



Figure 1. Cisco TelePresence Precision 60 Camera

#### **Product Overview**

The Cisco TelePresence Precision Cameras (Figure 1) enable users to fully realize a high-definition experience and provide superior video quality at any bandwidth. Designed specifically for video conferencing, they provide crystal-clear, true-to-life quality for interaction and collaboration. The Precision Camera portfolio consists of three models:

- Cisco TelePresence Precision 40 Camera, ideal for use with the Cisco TelePresence SX20 Quick Set
- Cisco TelePresence Precision 60 Camera, ideal for use with the Cisco TelePresence <u>SX80 Codec</u> and for enabling <u>Cisco PresenterTrack</u>
- Cisco TelePresence Precision 12X Camera, ideal for use with the Cisco TelePresence SX20 Quick Set

The Cisco TelePresence portfolio creates an in-person experience, empowering you to collaborate with others as never before. A powerful combination of technology and design allows you and remote participants in a video conference to feel as if you are all in the same room. The Cisco TelePresence portfolio has the potential to provide great productivity benefits and transform your business. Many organizations are already using it to control costs, make decisions faster, improve customer intimacy, scale scarce resources, and reduce time to market.

#### **Cisco TelePresence Precision Camera Features**

Table 1 summarizes the main features of the Cisco TelePresence Precision Camera portfolio.

Table 1.	Cisco TelePresence Precision Camera Features

Specification	Cisco TelePresence Precision 40 Camera	Cisco TelePresence Precision 60 Camera	Cisco TelePresence Precision 12X Camera		
	2	0	<u>Q</u>		
Product ID	CTS-P40-K9=	CTS-P60-K9=	CTS-PHD-1080P12XS=		
Resolution	• 1920 x 1080 at 60 fps • 1920 x 1080 a		• 1920 x 1080 at 60 fps		
Zoom	<ul><li>4x optical zoom</li><li>2x digital zoom</li><li>8x total zoom</li></ul>	<ul><li>10x optical zoom</li><li>2x digital zoom</li><li>20x total zoom</li></ul>	12x optical zoom		
Pan and tilt	<ul> <li>Pan range: +/-90°</li> <li>Tilt range: -25° to +15°</li> </ul>	<ul> <li>Pan range: +/- 100 degrees</li> <li>Tilt range: +/- 20 degrees</li> </ul>	<ul> <li>Pan range: +/- 100 degrees</li> <li>Tilt range: +/- 20 degrees</li> </ul>		
Field of view (FoV)	<ul> <li>Horizontal FoV: 70°</li> <li>Horizontal FoV: 80°</li> <li>Vertical FoV: 43.5°</li> <li>Vertical FoV: 48.8°</li> </ul>		<ul> <li>Horizontal FoV: 72°</li> <li>Vertical FoV: 43.5°</li> </ul>		
Focus distance	• 0.3m to infinity (wide) • 1.0m to infinity (wide)		<ul> <li>0.3m to infinity (wide)</li> </ul>		
F-value	• 1.7	• 1.5	• 1.7		
Camera control	<ul> <li>Custom cable</li> </ul>	• Ethernet	• RJ-45		
Focus, white balance, and brightness	Manual or automatic				
Video interfaces	• HDMI 1.4	<ul><li>HDMI 1.4</li><li>3G-SDI</li></ul>	<ul><li>HDMI 1.4</li><li>3G-SDI</li></ul>		
Power	-	<ul> <li>12V/3A</li> <li>100 to 120/200 to 240 VAC, 50/60 Hz</li> </ul>	-		
Operating temperature and humidity	<ul> <li>0° to 40°C (32° to 104°F) ambient temperature</li> <li>10% to 90% relative humidity (RH)</li> </ul>				
Storage and transport temperature	-20° to 60°C (-4° to 140°F) at RH 10% to 90% (noncondensing)				
Dimensions	<ul> <li>Length: 8.35 in. (2.12 cm)</li> <li>Height (at max tilt): 5.92 in. (15.1 cm)</li> <li>Depth: 5.45 in. (13.8 cm)</li> <li>Weight: 3.17 lb (1.4 kg)</li> </ul>	<ul> <li>Length: 10.6 in. (26.8 cm)</li> <li>Height (at max tilt): 6 in. (15.2 cm)</li> <li>Depth: 6.4 in. (16.3 cm)</li> <li>Weight: 5.5 lb (2.5 kg)</li> </ul>	<ul> <li>Length: 5.8 in. (14.7 cm)</li> <li>Height (at max tilt): 6.8 in. (17.2 cm)</li> <li>Depth: 5.8 in. (14.7 cm)</li> <li>Weight: 3.95 lb (1.8 kg)</li> </ul>		
Network interfaces         -         • One LAN/Ethernet (RJ-45) 10/100 Mbit			-		

Note: Product specifications are estimates and are subject to change without notice.

#### **Ordering Information**

To place an order, visit the Cisco Ordering homepage. Table 2 provides ordering information.

Table 2. Ordering Information	Table 2.	Ordering Informatio	n
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Product Name	Part Number	Compliance Model Number
Cisco TelePresence Precision Camera Spares		
Precision 40 Camera (spare)	CTS-CAM-P40=	TTC8-05
Precision 60 Camera (spare)	CTS-CAM-P60=	TTC8-07
Precision 12X Camera (spare)	CTS-PHD-1080P12XS=	TTC8-02

#### Services and Support

Cisco and our partners provide a broad portfolio of intelligent, personalized services and support that can help you realize the full value of your Cisco TelePresence investment by increasing business agility and network availability. This portfolio of services accelerates business innovation through a network-based collaboration platform that enables businesses to collaborate anywhere, at any time. For more information about these services, visit <a href="http://www.cisco.com/go/telepresenceservices">http://www.cisco.com/go/telepresenceservices</a>.

#### **Cisco** Capital

#### Financing to Help You Achieve Your Objectives

Cisco Capital can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce CapEx. Accelerate your growth. Optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there's just one predictable payment. Cisco Capital is available in more than 100 countries. Learn more.

#### For More Information

For more information about the Cisco TelePresence Precision Cameras, visit <u>http://www.cisco.com/go/telepresence</u> or contact your local Cisco account representative or authorized Cisco partner.



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# Samsung Flip 2

Teamwork simplified

SAMSUNG

# Welcome to your best work life



## What is Samsung Flip 2?

Samsung Flip is an intuitive and easy-to-use digital flipchart for any meeting environment, offering enhanced collaboration capabilities in an easy UI with a host of features, including brush mode, annotation on, merge to roll, and other collaboration tools. Available in two sizes, 55 and 65 inches, both models offer great collaborative features supported by unique designs. The 55-inch model offers increased workspace in front of the display, a hinge assembly structure and wheels for an efficient, moveable solution. The 65-inch model provides a larger screen which can be used as the main display in a meeting room, while the no gap wall mount removes any unnecessary space between the product and the wall. No matter the size, the Samsung Flip allows teams to work smarter, faster and better.



### Pen & paper annotation



#### Pen mode & Brush mode notation Draw, write & inspire new ideas

Samsung Flip provides smooth and familiar pen-to-paper-like writing in a variety of colors, styles and widths, while Brush Mode allows users to create art at the stroke of a brush in watercolor and oil painting modes. Up to 4 people can write simultaneously and erase drawings with a finger or palm swipe.

ashior

### Intuitive usability



# Annotation on Write on any background Samsung Flip allows users to write on any background source. By simply

Samsung Flip allows users to write on any background source. By simply clicking the note layer button, users can enjoy smooth writing anytime, anywhere on any content displayed, without affecting any work behind the original layer.



#### Seamless scroll & Quick finder Easy content navigation

Samsung Flip has up to 20 pages of writing space per roll, allowing users to seamlessly scroll through pages. The Flip's intuitive, user-friendly menu simplifies navigation and saves time, while the quick finder feature allows users to preview content and make instant changes directly on the screen.

#### Selection tool & Merge to roll Flexible image editing

Bringing versatility to the board. With Samsung Flip, users can quickly and easily select, move, crop, capture, and edit any image. Each Image can also be merged to the roll with just one click of a button, allowing it to be edited or erased.

#### Convenience



#### Web browser

#### Simple web surfing while annotating

Samsung Flip now supports web browsing and allows users to access the internet directly through the display, with no additional device needed. Once the browser is open, annotation is still available for users to draw around the browser too.



#### Document viewer Direct document access

Samsung Flip gives users the capability to open Microsoft Word, Microsoft PowerPoint, Microsoft Excel and PDF files directly with a built-in document viewer, ensuring easy access regardless of the content source.



#### Screen saver Custom screen saver to reinforce your brand

When the display is not in use, users can select a custom image to be shown on the Flip as a screensaver. This means the Samsung Flip can help to reinforce a brand, for example, by displaying a company logo, providing an efficient solution even when not in use.



# Various form options Suitable for all business needs

Samsung Flip can be used for a wide range of business applications, providing embedded versatile templates. You can use the Flip as a calendar, scheduler, note or checklist board, perfectly matching any business need, enabling users to utilize the display in the ways that are most useful for them.



#### Samsung Workspace Comprehensive connectivity

The Flip features Samsung Workspace, which supports wireless cloud service access, Microsoft Office 365 access, and control of a PC without the need for a physical connection. Backed by Samsung's Knox security, this all ensures the Flip makes meeting spaces simpler, safer and more efficient.

## **Powerful connectivity**



# Screen share Large audience sharing

Users can project content on the Flip to another large digital display in real time, using a Wi-Fi Direct or HDMI out connection. The Flip display can even be shared while connected to a personal device, ideal for large meeting environments, delivering information to bigger audiences.



#### Bluetooth support Familiar and flexible devices

The Samsung Flip allows users to connect a bluetooth keyboard and mouse to the Flip, creating a more convenient and efficient meeting environment by enabling the use of familiar devices and tools for each user.



#### Easy sharing Effortless meeting recaps

Following any meeting, users can distribute recaps to all attendees and colleagues, removing the time frustration traditionally associated with handwritten meeting notes. Important conversations and content are stored within the Flip in real-time, easily shareable across mobile and digital channels.



#### Versatile connectivity Multiple connection options

Users are empowered by the Flip's versatile connection options. USB, HDMI, NFC and wireless connection capabilities enable optimum collaboration and provide interactive content visibility, notation and sharing. The Flip also offers an optional tray as a more powerful connectivity extension.

### **Complete management**





#### Seamless streaming with AirPlay 2

With AirPlay 2 built-in, stream or share content from Apple devices straight to the boardroom or classroom TV for effortless presentations. In a variety of business and education environments, play videos, music, photos and more from iPhones, iPads and Macs on Samsung Flip to enhance customer engagement or maximize education time.

\* This service may not be available at the time of purchase of this product and the availability may vary by region.
 \* Images simulated for illustration purpose only.

\* Images simulated for illustration purpose only.
 \* Availability of the feature and Graphic User Interface (GUI) may vary by region. Check before use.



#### 6-digit lock Safe, secure content protection

Samsung Flip ensures that confidential meeting information remains in the right hands. Using its reinforced, 6-digit lock system, each in-office team is able to safeguard sensitive content, lock the display and remove critical content from view.



#### Remote management Comprehensive control options

Users can remotely control critical display settings of the Flip through Samsung's Remote Management solution. This provides the ability to power the display on and off, change the pin code, lock the network or USB port and adjust proxy server settings for enhanced convenience.

\* Samsung's Remote Management solution must be purchased separately.



#### Advanced convenience and security Convenient, optimized management

Samsung Flip offers improved capabilities, including secure wireless connection, automatic firmware updates and LDAP synchronization when connected to network database for convenient, functional meetings.

## Innovative design



#### Enhanced new design for multiple environments

The new, slim stand for Flip 55-inch offers increased workspace in front of the display and an enhanced hinge assembly structure for increased flexibility and efficient installation. Wheels on the base of the model also enable the display to be easily moved around to any position. The no gap wall mount of the Flip 65-inch removes any unnecessary space between the product and the wall, creating a seamless solution that blends into any environment. The larger size of the 65-inch model also provides a display that can be used for larger meeting rooms. In addition to the new size options, both models have a convenient magnetic pen holder, meaning users do not have to worry about misplacing the pen and can get to work immediately once coming back to the display.

\* Some of the design features may vary according to different types of accessories and inches.

# Specifications

	Model		● WM55R	O WM65R
	Diagonal Size		55″	65"
	Type		60Hz New Edge	60Hz New Edge
	Resolution		3,840 x 2,160 (Landscape)	3,840 x 2,160 (Landscape)
Panel	Brightness(Typ.)		350 (without glass), 220 (with glass)	350 (without glass), 220 (with glass)
	Contrast Ratio(Typ.)		4000:1 (Typ.)(without glass)	4000:1 (Typ.)(without glass)
	Viewing Angle(H/V)		178:178	178:178
	Operation Hour		16/7	16/7
	Response Time(G-to-G)		8ms(Typ.)	8ms(Typ.)
Sound	Speaker Type		Built in Speaker (10W x 2)	Built in Speaker (10W x 2)
	INPUT	VIDEO	(Basic) HDMI 2, (With Tray) HDMI 3	(Basic) HDMI 2, (With Tray) HDMI 3
	INPUT	USB	(Basic) USB 1, (With Tray) USB 2, USB External (In/Out) 1	(Basic) USB1, (With Tray) USB 2, USB External (In/Out)1
Connectivity	OUTPUT	Touch Out	(Basic) Touch Out 1 (USB Upstream Type), Audio Out 1 (With Tray) Touch Out 2, Audio Out 1, Screen Share(HDMI-Out) 1	(Basic) Touch Out 1 (USB Upstream Type), Audio Out 1 (With Tray) Touch Out 2, Audio Out 1, Screen Share(HDMI-Out) 1
,	INTERNAL	SENSOR	(Basic) Acceleration sensor (With Tray) Acceleration sensor, NFC	(Basic) Acceleration sensor (With Tray) Acceleration sensor, NFC
	EXTERNAL	CONTROL	Touch Input, RS232C, RJ45 (Not for User Control)	Touch Input, RS232C, RJ45 (Not for User Control)
		CONTROL	InGlass™	louch input, KS232C, K345 (Notion Oser Control) InGlass™
	Type # of Denuise			
Taurah	# of Drawing		Multi writing up to 4	Multi writing up to 4
Touch	Touch Pen Type		Passive Pen with magnet	Passive Pen with magnet
	Object Recognition Rang	e	2mm/ 4mm / 8mm / 50mm , 1024 Level on Brush Mode	2mm/4mm/8mm/50mm, 1024 Level on Brush Mode
	Touch Response Time		6.7ms	6.7ms
	Туре		Internal	Internal
	Power Supply		AC100~240V 50/60Hz	AC100-240V 50/60Hz
		Max[W/h]	154	181.5
Power		Typical[W/h]	80	100
	Power Consumption	Rating[W/h]	140	165
		Stand-by[W/h]	0.5	0.5
		BTU[W/h]	525.14	618.915
		Set	1297.4(W) x 768.2(H) x 59.9(D)	1522.4(W) x 897.6(H) x 62.9(D)
	Dimension (mm)	Package	1464(W) x 915(H) x 190(D)	1691(W) x1055(H) x198(D)
		Set	28.2	40.0
	Weight (kg)	Package	35.2	40.0
	<b>C</b> 1.	маскаде		
	Color		Light Gray	Light Gray
Mechanical Spec	VESAMount		400 x 400	400 x 400
spec	Protection Glass		Yes	Yes
	Stand Type		Moving Stand, Wallmount	No-Gap Wall Mount
	Rotation		Available with Flip moving stand (STN-WM55R) (Available with rotation support 3rd party accessory)	N/A with Flip No-Gap Wallmount (WMN-WM65R) (Available with rotation support 3rd party accessory)
	Power Cable Length		3m	3m
	Accessory		Cover-Jack	Cover-Jack
	Operating Temperature		0°C~ 40°C	0°C~ 40°C
Operation	Humidity		10~80%	10~80%
	Key		Flip App	Flip App
	y	H/W	Super Clear Coating, Temperature Sensor, Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W x 2), WiFi Module Embedded	Super Clear Coating, Temperature Sensor, Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W x 2), Wifi Module Embedded
	Special	S/W	Flip S/W	Flip S/W
				•
		Platform	Muse-M (Tizen 5.0)	Muse-M (Tizen 5.0)
		Processor	CA72 Quad(1.7GHz)	CA72 Quad(1.7GHz)
Feature		On-Chip Cache Memory	L1 (I/D) : 32KB / 32KB, L2 (Unified) : 1MB	L1 (I/D) : 32KB / 32KB, L2 (Unified) : 1MB
		Clock Speed	1.7GHz CPU Quad	1.7GHz CPU Quad
	Internal Player	Main Memory Interface	LPDDR41.6GHz 64bit 2.5GB	LPDDR41.6GHz 64bit 2.5GB
	(Embedded H/W)	Graphics	2D & 3D Graphics Engine - Up to 1920x1080. 32bpp - Supports OpenGLES"	2D & 3D Graphics Engine - Up to 1920x1080. 32bpp - Supports OpenGLES
		Storage	8GB(2.65GB Occupied by O/S, 5.35GB Available)	8GB(2.65GB Occupied by O/S, 5.35GB Available)
		IO Ports	USB 2.0	USB 2.0
		Operating System	Samsung Proprietary OS(VDLinux)	Samsung Proprietary OS(VDLinux)
	Included		Passive Pen(2), Power Cable, Touch Out Cable (USB upstream)	Passive Pen(2), Power Cable, Touch Out Cable (USB upstream)
		Stand	STN-WM55R	N/A
Accessories		Wallmount	WMN4277SE	WMN-WM65R
,	Optional	Tray	CY-TF65BRC	CY-TF65BRC
		Specialty	Flip UX	Flip UX

•	Wallm		ount for WM55R - WMN4277SE	•	Wallmou		ount for WM65R - WMN-WM65R
			465(W) x 442(H) x 24.5(D) mm		Dimension (mm)	Set	520(W) x 280.3(H) x 15.9(D)
	Dimension (mm)	Package	510(W) x 280(H) x 90(D) mm		Dimension (mm)	Package	594(W) x 337(H) x 75(D)
		Set	5.5		Weight (kg)	Set	1.75
Mechanical Weight (kg)	Weight (kg)			Mechanical	weight (kg)	Package	3.2
Spec		Package	6.8	Spec	Color		Light Gray
	Color		Black		VESA Mount		400 X 400
	VESA Mount		400 X 400		Rotation		N/A
	Rotation		N/A	Accessories	Included		Installation Guide, Screws
Accessories	Included		Installation Guide, Screws	Feature	Special	H/W	No-Gap Spacing, Extra Bracket for strong fixation

•		Star	nd for WM55R - STN-WM55R	00		Tr	ay for Flip 2 - CY-TF65BRC
Dimen		Set	835(W) x1631.1(H) x 850.6(D)		Dimension (mm) Mechanical	Set	269.8(W) x 111.3(H) x 56.9(D)
	Dimension (mm)	Package	1650(W) x 860(H) x 208(D)			Package	294(W) x 136(H) x 69(D)
		Раскауе	1050(W) X 800(H) X 208(D)	Mechanical Spec		Set	0.5
		Set	34.5	Spec Weigl Color	Weight (kg)	Package	0.7
Mechanical Weight (kg)	Weight (kg)	Package	41.5		Color		Light Gray
Spec		-					USB1
	Color		Light Gray	Connectivity I			USB External (In/Out) 1
	VESA Mount		400 X 400		Extra Connectivity		Touch Out 1
			400 X 400		Extra connectivity i	POILS	HDMI-In 1
	Rotation		Pivot Supports (90°)				HDMI-Out(Screen Share)1
							NFC1
Accessories	Included		Installation Guide, Screws	Accessories	Included		Installation Guide, Screws
Feature	Special	H/W	Slim Design, No Assembly Required Installation	Feature	Special	H/W	Easy install with dock connector Front facing connector for BYOD usage

\* Specifications on the table are flexible and subject to change under certain circumstances.

# Installation guide

#### Quick setup guide - Stand for WM55R











#### Quick setup guide - Wallmount for WM65R



#### Technical drawing





#### About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, medical equipment, network systems, and semiconductor and LED solutions. For the latest news, please visit the Samsung Newsroom at news.samsung.com.

#### Samsung Flip 2

For more information about Samsung Flip 2, visit www.samsung.com/business or www.samsung.com/displaysolutions

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2019-09

# SAMSUNG

# We help businesses form a strategy to grow their brand using great design.

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ORPORATE

# Samsung SMART Signage QEN series

Amplify Business Messaging through Reliable and Efficient Digital Displays

Revitalizing how businesses deliver content and differentiate themselves in any viewing environment is what Samsung's QEN series displays provide. With brilliant content delivery through UHD picture quality and its large size, this digital signage offers a one-of-a-kind experience for all viewers. The QEN series is not only an affordable display, but it is also reliable and built to last. In addition, the QEN series will turn any space into a contemporary setting with its boundless and slim-edge design.

# Highlights

- Deliver content effectively through reliable yet cost-efficient digital displays
- Provide a captivating viewing experience with 82" large-sized screen
- Elevate content quality through a unique combination of picture-enhancing features
- Amplify graphic performance within the powerful TIZEN operating system
- Create an inviting, sophisticated space with a sleek design
- Facilitate secure, PC-free meetings through rigid three-layer protection

# SAMSUNG
# **Industry trend**

Businesses are looking for ways to present clear and effective messaging to its audiences while improving their customer experience. Turning to large-sized displays with UHD picture quality allows businesses to provide engaging content on a stable device. Not only looking for digital signage that is large with distinct content, businesses want displays that are versatile and can meet operational changes over time.

### Why Samsung QEN series?

Samsung QEN Series leverages Samsung's Intelligent Picture Quality technology to elevate content delivery in any setting. This refined presentation transforms content from any source to UHD-level quality, and optimizes on-screen text and imagery with crisp edges and fine detail. Recent advancements have made the signage offerings even stronger and empower businesses to develop and deploy content with the confidence that it will perform continuously. Users are assured information being presented is clear, engaging and easy to see due to its large size. With a modern and sophisticated design, the QEN series can easily be integrated to any environment.



Intelligent

UHD



#### **Intelligent Picture Quality**



Intelligent

HDR+

Intelligent Picture Mode

# **Key features**

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- Tizen Studio

Node.JS HTTP web Server



UHD Content play back
 HTML5 Compatibility

- Graphic performance with Quad core CPU

The embedded MagicINFO Player S6, backed by the powerful TIZEN operating system, boosts the displays overall performance, allows for painless content management and ensures seamless content transition and playback.



#### Elevate visual appeal in any setting

Bezel-less on three sides, the QEN Series displays transform any meeting space into a visually appealing experience that is unique and welcoming. Featuring a modern slim-edge design, the QEN Series brings flexible style to any environment.



#### Empower secure and remote collaboration

Samsung's KNOX platform provides rigid three-layer protection while also securing and controlling USB and user network exchange through dedicated signage device management. With added security, businesses can facilitate remote, PC-free meetings without risk or complexity.

- Remote Management - Signage Device Management

- Enhanced Security

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# **Specifications**

	Model		QE82N
	Discussion of the	Class	82
	Diagonal Size	Measured	81.5"
	Туре		120Hz Edge
	Resolution		UHD (3840 x 2160)
Panel	Pixel Pitch (mm)		0.15675 x 0.047025
	Active Display Area		1805.76(H) x 1015.74(V)
			300
	Brightness(Typ.)		500:1
	Contrast Ratio (Typ.)		
	Viewing Angle(H/V)		178/178
	Response Time (G to G)		6ms (Mar 15ms)
	Display Colors		16.7M
	Color Gamut		72%
	Operation Hour		16/7
	Haze		2%
	Dynamic C/R		MEGA
Display	H-Scanning Frequency		30 ~ 81kHZ
Display	V-Scanning Frequency		48 ~ 75HZ
	Maximum Pixel Frequency		594MHz
Sound	Speaker Type		Built in Speaker(10W 2CH + 20W Woofer)
		RGB	DVI-D
		VIDEO	HDMI 2.0 (2)
	INPUT	HDCP	HDCP 2.2
		AUDIO	Stereo Mini Jack, DVI/HDMI/Audio(Common)
		USB	USB 2.0 x 2
		RGB	N/A
Connectivity		VIDEO	N/A
connectivity	OUTPUT	AUDIO	Stereo Mini Jack
	001101	Power Out	N/A
		USB	
	EXTERNAL CONTROL	USB	N/A
			RS232C(in/out) thru stereo jack, RJ45
	EXTERNAL SENSOR		N/A
	Tuner		N/A
	Туре		Internal
	Power Supply		AC100 - 240 V~ (+/- 10 %), 50/60 Hz
		Max[W/h]	325
Power		Typical[W/h]	237
	Power Consumption	Rating[W/h]	295
		Sleep mode	less than 0.5W
		Off mode	less than 0.5W
	Dimension(mm)	Set	1830.0 x 1054.0 x 60.9 / 1830.0 x 1144.6 x 387.2 (with Stand)
	Sumension(mm)	Package	2017 x 1222 x 295
	Weight (kg)	Set	44.4 / 45.5 (with Stand)
Mechanical		Package	60.4
Spec	VESA Mount		600*400
	Protection Glass		N/A
	Stand Type		Foot Stand (Inbox)
	Bezel Width (Top/Side/Bot)	(mm)	3 Bezel-less
Operation	Operating Temperature		0°C~ 40°C
Operation	Humidity		10~80%
	Кеу		UHD Signage Display, Slim & Light Signage with, Built-in MagicInfo 56, SSSP 6.0
		H/W	Built in Speaker(10W 2ch + 20W Woofer), Wi-Fi
	Special	S/W	Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)"
		Processor	Coretex A72 1.7GHz Quad-Core CPU
		On-Chip Cache Memory	L1 Instruction Cache : 48KB, L1 Data Cache : 32KB, L2 Cache : 2MB
		Clock Speed	1.7GHz
Feature		Main Memory Interface	2.5GB, LPDDR4 1.5GHz 64bit
	Internal Player (Embedded H/W)	Graphics	Graphic resolution : 1920x1080 Output resolution : 3840x2160 (Scale up from graphic processing result.)
		Storage (FDM)	
			8GB (3.88GB Occupied by O/S, 4.12GB Available) *Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9
		Multimedia	*Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder : AC3 (DD), MPEG
		IO Ports	USB 2.0
	Operating System		Tizen 4.0 (VDLinux)
	Safety		CB (Europe) : IEC60065/EN60065KC(Korea) : K 60065RCM(Australia) : IEC60065/AS/NZS 60065TUV (Germany) : CENEMKO (Norway)
Contification	Safety		:CE
Certification	EMC		Class A
	Environment		Yes
	Included		Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries
		Stand	N/A (Inbox)
Accessories	Optional	Mount	WMN8000SXK
	Optional	Specialty	N/A
		Media Player	N/A

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Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, medical equipment, network systems, and semiconductor and LED solutions. For the latest news, please visit the Samsung Newsroom at news.samsung.com.

#### SMART Signage

For more information about Samsung SMART Signage Ben Series Displays, visit www.samsung.com/business or www.samsung.com/displaysolutions

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2018-09

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# Cisco TelePresence SpeakerTrack 60 Camera

#### **Product Overview**

Optimize your videoconferencing experience so you can see your customers, partners, and colleagues up close and personal, even when they are on the other side of the globe. The Cisco TelePresence<sup>®</sup> SpeakerTrack 60 Camera (SpeakerTrack 60) is an unparalleled dual-camera system that lets participants in a video meeting see the active speaker on the other end of a conference - in full view. It enables rich, spontaneous collaboration to help you manage costs, make decisions faster, improve customer intimacy, scale scarce resources, and speed products to market.

In most videoconferences, the camera simply captures the whole meeting room, making all participants appear small, especially if the conference is held in a large meeting room. Having the active speaker always appear in full view provides an intimate, like-life experience that can be better than being there. Using two cameras that act independently, SpeakerTrack 60 quickly tracks and displays active speakers, switching between them in an instant. So meetings can progress fluidly, and speaker expressions and reactions are captured in real time.

The Cisco TelePresence portfolio is designed to create a delightful in-person experience over the network empowering you to collaborate with others like never before. Through a powerful combination of technologies and design that lets you and remote participants feel as if you are all in the same room, the Cisco TelePresence portfolio can transform your business. Many organizations are already using it to promote productivity and innovation.



Figure 1. Cisco TelePresence SpeakerTrack 60

#### **Product Features**

SpeakerTrack 60 employs a unique dual-camera approach for fast, direct switching. One camera quickly locates a close-up of the active speaker while the other gets ready to seek and display the next active speaker. Table 1 summarizes features of the camera.

Feature Summary		
Sleek, sophisticated design and features	<ul> <li>Fast, direct switching between active speakers delivers a continuous meeting experience.</li> <li>Multispeaker view prevents unnecessary switching when the next active speaker is already in the current shot.</li> <li>Automatic framing of all participants provides an ideal, dynamic overview of the full room.</li> <li>Sleek industrial design and wall-mount option enables discreet room set-up.</li> <li>Simple user interaction provides a consistent experience with the rest of the Cisco TelePresence products.</li> <li>True 1080p60 HD resolution delivers rich, vivid image quality002E.</li> </ul>	

#### **Product Capabilities**

Table 2 lists the product capability specifications for the SpeakerTrack 60 Camera.

Specification	Description
Resolution	1920 x 1080 at 60 frames per second (fps)
Zoom	<ul> <li>10x optical zoom</li> <li>2x digital zoom</li> <li>20x zoom combined</li> </ul>
Pan and tilt	<ul> <li>Pan range: +/-100 degrees</li> <li>Tilt range: +/-20 degrees</li> </ul>
Field of view (FoV)	<ul> <li>Horizontal FoV: 80 degrees</li> <li>Vertical FoV: 48.8 degrees</li> <li>Tracking horizontal FoV: 80 degrees</li> </ul>
Focus distance	• 1.0m to infinity (wide)
F-value	• 1.5
Camera control	Ethernet
Focus, white balance, and brightness	Manual or automatic
IP network features	<ul> <li>Domain Name System (DNS) lookup for service configuration</li> <li>Date and time support through Network Time Protocol (NTP)</li> <li>TCP/IP</li> <li>Dynamic Host Configuration Protocol (DHCP)</li> </ul>
Network interfaces	One LAN or Ethernet (RJ-45) 10-/100-Mb
Video interfaces	• HDMI 1.4
Power	<ul> <li>12V/6.5A</li> <li>100-120 or 200-240 VAC; 50 or 60 Hz</li> </ul>
Operating temperature and humidity	<ul> <li>32 to 104°F (0 to 40°C) ambient temperature</li> <li>10 to 90% relative humidity (RH)</li> </ul>
Storage and transport temperature	<ul> <li>-4 to 140°F (-20 to 60°C) at RH 10-90% (noncondensing)</li> </ul>
Dimensions and weight	<ul> <li>Length: 31.5 in. (80.0 cm)</li> <li>Height: 11.5 in. (29.2 cm)</li> <li>Depth: 8.3 in. (21.0 cm)</li> <li>Weight: 25.4 lb (11.5 kg)</li> </ul>
Compatibility information	<ul> <li>Compatible with C40/C60/C90 and SX80</li> <li>Requires a Cisco Touch 8 or Touch 10 (unless a control system is used)</li> </ul>

 Table 2.
 Product Specifications

#### **Ordering Information**

To place an order, please contact your local Cisco representative and refer to Table 3.

Table 3. **Ordering Information** 

Product Name	Part Number	Compliance Model Number
Cisco TelePresence SpeakerTrack 60 kit	CTS-SPKER-TRACK60	TTC8-09
(comes with Cameras, mounting bracket, microphone array and PSU)		
Cisco TelePresence Mounting Bracket spare	CTS-ST-ARRAY60=	

Note: When using SpeakerTrack 60 with Cisco TelePresence Integrator C Series Codecs, please note that the Codec cannot be controlled using the Cisco Remote Control TRC5. Cisco TelePresence Touch 8 or an external control device must be used.

#### **Cisco Service and Support**

Cisco and our partners provide a broad portfolio of smart, personalized services and support that can help you realize the full business value of your Cisco TelePresence investment by increasing business agility and network availability. This portfolio of services accelerates business innovation by harnessing the network as a powerful business platform. For more information about these services, please visit:

http://www.cisco.com/go/telepresenceservices.



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Cisco Webex

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# **Cisco Webex Room 55**

# Contents

Cisco Webex Room 55 overview	3
Cisco Webex Room 55 features and benefits	4
Cisco Webex Room 55 prominent features/differentiators	5
Cisco Webex Room 55 registration	5
Product specifications	6
Regulatory compliance	10
Warranty information	11
Cisco environmental sustainability	12
Cisco Services and Support	12
Cisco Capital	12
Call to action	13

# Cisco Webex Room 55 is a powerful, fully integrated collaboration system that brings more intelligence and usability to your small- to medium-sized meeting rooms, whether registered on-premises or to Cisco Webex.

#### Cisco Webex Room 55 overview

Cisco Webex<sup>™</sup> Room 55 combines an unmatched video and audio experience with a sophisticated, Red Dot-awarded design to create a compelling team collaboration system.

The Room 55, which includes camera, codec, display, speaker system, and microphones integrated in a single device, is optimized for rooms that seat up to seven people. It is an all-in-one, integrated system that's easy to install, use, deploy, and manage. It's crafted with high-quality components: professional 4K display for longevity and minimal latency, powerful digital zoom camera for discreet tracking, sophisticated speaker system and amplifier to deliver rich sound, and a light industrial design that combines aluminum and fabric for a sustainable and humanizing effect.

The Cisco Webex Room 55 has the <u>Cisco Webex Room Kit</u> as its base technology, bringing new capabilities such as speaker tracking, best overview, automatic wake-up, and people count to enable even smarter meetings, smarter presentation capabilities, and smarter room and device integrations. These features and functionalities further remove the barriers to usage and deployment of video in small- to medium-sized meeting rooms. The Room 55 is rich in functionality and experience but is priced and designed to be easily scalable to all of your meeting rooms and spaces, whether registered on-premises or to Cisco Webex.



#### Figure 1. Cisco Webex Room 55 in medium room scenario

# Cisco Webex Room 55 features and benefits

Table 1 summarizes Cisco Webex Room 55 features and benefits.

#### Table 1.Features and benefits

Feature	Benefit
Award-winning design	<ul> <li>Light, sophisticated industrial design is recipient of 2017 Red Dot award for innovation in design</li> <li>Camera innovation: Powerful 5K UltraHD camera and wide-angle lens cover everyone in the room</li> <li>Sound innovation <ul> <li>Stereo speakers with dedicated center speaker for optimal voice pick-up</li> <li>Built-in amplifier to deliver rich sound</li> <li>Speakers above screen for more equal room coverage</li> </ul> </li> <li>Screen innovation <ul> <li>Fabric front for natural and inviting feel</li> <li>Aluminium frame for lightness in design and sustainability</li> <li>Increased height over previous generation to accommodate taller tables (10 cm/4 inches taller than MX300)</li> </ul> </li> <li>Highly reliable as components and software are designed to work together</li> <li>Designed to minimize latency and echo</li> </ul>
Smart meetings	<ul> <li>Brings intelligent views to smaller rooms with discreet, integrated camera <ul> <li>Best overview: Automatically detects meeting participants and provides ideal framing</li> <li>Speaker tracking: Detects and switches between active speakers and provides ideal framing</li> </ul> </li> <li>Great audio experience with integrated microphones, speakers, and amplifier; supports room elegance with no wires or microphones on the table</li> <li>Automatic noise suppression reduces disruptive sounds coming from the meeting room (e.g., typing, paper rustling)</li> <li>Simplified meeting-join experience with One Button To Push (OBTP) for scheduled devices in a Cisco Webex meeting, whether registered on-prem or to Cisco Webex</li> <li>Automatic wake-up: System "wakes up" when someone walks into the room and suggests activities for fast and easy meeting start</li> <li>Easily controlled by the Cisco Webex Room Navigator control unit or with a Cisco Proximity or the Cisco Webex app</li> <li>End-to-end security</li> </ul>
Smart presentations	<ul> <li>Supports dual screens for video and content</li> <li>Supports dual content sources for local meetings</li> <li>View white board content and annotations shared from Cisco Webex Board, Cisco Webex Desk Pro, or Cisco Webex app; participate in white boarding sessions through the Cisco Webex app*</li> <li>4K content sharing (local 30 fps, remote 5 fps)</li> <li>Wired or wireless content sharing (only two wires required: power and HDMI)</li> </ul>
Smart rooms Built for cloud	<ul> <li>Metrics: Counts people in the room, enabling analytics for better resource planning</li> <li>Supports Wi-Fi</li> <li>In-room control: Controls peripherals such as lights and blinds through the Webex Room Navigator</li> <li>Flexibility to register on-premises or to the cloud through Cisco Webex</li> </ul>
and premises	<ul> <li>Hardware is optimized to run on a cloud platform for great experiences in shared rooms and spaces, with easy access to hosted conferences</li> </ul>

\* Supported on devices registered to Cisco Webex only

#### Cisco Webex Room 55 prominent features/differentiators

#### Bringing more intelligence to small and medium-sized rooms

The Cisco Webex Room 55 offers video innovation encased in a beautifully designed frame, bringing more sophistication, intelligence, and usability to your small-to-medium team collaboration rooms. While others are still struggling to offer advanced features such as speaker tracking, wireless sharing, and 4K content in their high-end products, Cisco is already bringing these innovations to meeting rooms of all sizes in a cost-effective and simple way. With the Room 55, Cisco is helping customers experience smarter meetings, enable smarter presentations, and create smarter room and device integrations. These features were previously the domain of higher-end video conferencing rooms, but can now be brought to every room and every team. When registered to Cisco Webex, additional functionalities enhance the user experience and team workflow and further simplify deployment:

- **Smart meetings:** Powerful, integrated cameras deliver intelligent view capabilities, such as automatic framing and speaker tracking; automatic noise suppression reduces meeting disruptions
- **Smart presentations:** Dual screens, dual content sources, wireless sharing, and 4K content make for great presentations
- **Smart rooms:** People count for usage metrics and resource allocation; tight integrations with screens to enhance user interactions; APIs and macros allow meeting personalization
- **Registration flexibility:** Built for both cloud and on-premises deployment, protecting your investment.

#### Cisco Webex Room 55 registration

Table 2 provides registration information.

**Table 2.**Registration information

License level	Term
Cisco Webex Device Subscription	Monthly or 1-, 2-, 3-, 4-, or 5-year options

# Product specifications

Table 3 provides product specifications.

Table 3.Specifications

Specification	Description	
Software compatibility	Cisco Collaboration Endpoint Soft	tware Version 9.14.5 or later, and Cisco Webex RoomOS
Default components	in Cisco Webex Room 55 with:	
Floor stand		$ \begin{array}{c} \hline \\ \hline $
Wheel base		<image/> <complex-block></complex-block>

Specification	Description		
Wall mount	Image: constrained of the second state of the second st		
Optional hardware components	<ul><li>Microphone extension cable</li><li>HDMI presentation cable 8m/26.2 ft.</li></ul>		
Bandwidth	Up to 6 Mbps point-to-point		
Minimum bandwidth for resolution/frame rate	H.264: • 720p30 from 768 kbps • 720p60 from 1152 kbps • 1080p30 from 1472 kbps • 1080p60 from 2560 kbps		
Firewall traversal	<ul> <li>Cisco Expressway<sup>™</sup> technology</li> <li>H.460.18, H.460.19 firewall traversal</li> </ul>		
Video standards	• H.264 • H.265		
Video inputs	<ul> <li>Two HDMI input supports formats up to maximum 4K (3840 x 2160) at 30 fps, including HD1080p60; HDMI 2 supports HDCP content for local viewing</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>		
Video outputs	<ul> <li>One HDMI output supports formats up to 3840 x 2160 at 60 fps (4Kp60)</li> <li>Live video resolutions (encode and decode) up to 1920 x 1080 at 30, 60 fps (HD1080p)</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>		
Audio standards	• G.711, G.722, G.722.1, G.729, AAC-LD, and Opus		
Audio features	<ul> <li>High-quality 20-kHz audio</li> <li>Prepared for inductive loop (line out)</li> <li>Automatic Gain Control (AGC)</li> <li>Automatic noise reduction</li> <li>Active lip synchronization</li> </ul>		
Audio inputs	<ul> <li>Two microphones, 4-pin minijack</li> <li>Two audio in from HDMI</li> <li>Internal microphone</li> </ul>		
Audio outputs (external)	• 1 line out minijack (stereo)		

Specification	Description
Speakers (integrated)	<ul> <li>High-quality speaker system with left, center, and right channels, plus woofer</li> <li>Frequency response 70 Hz to 20 kHz</li> <li>Amplifier power: 80W</li> <li>Max output level SPL 98 dB</li> </ul>
Speaker tracking	6-element microphone array for accurate speaker tracking
Display	<ul> <li>55 in. (1.4m) LCD monitor, LED backlight</li> <li>Resolution: 3840 x 2160 (16:9)</li> <li>Contrast ratio: typical 1100</li> <li>Viewing angle: +/- 178 degrees</li> <li>Response time: typical 8 ms</li> <li>Brightness: typical 500 cd/m2</li> </ul>
Dual stream	<ul> <li>H.239 (H.323) dual stream</li> <li>Binary Floor Control Protocol (BFCP) (SIP) dual stream</li> <li>Supports resolutions up to 3840 x 2160 at 5 fps</li> </ul>
Wireless sharing	<ul> <li>Cisco Webex app (up to 3840 x 2160 at 5 fps)</li> <li>Cisco Intelligent Proximity client (up to 1920 x 1080 at 5 fps)</li> </ul>
Multipoint support	4-way embedded SIP/H.323 conferencing capability with MultiSite option
MultiSite features (embedded multipoint) (optional upgrade)	<ul> <li>Adaptive SIP/H.323 MultiSite: <ul> <li>3-way resolution up to 1080p30 + content up to 4Kp5</li> <li>4-way resolution up to 720p30 + content up to 4Kp5</li> </ul> </li> <li>Full individual audio and video transcoding</li> <li>H.323/SIP/VoIP in the same conference</li> <li>Support for presentation (H.239/BFCP) from any participant at resolutions up to 3840 x 2160p5</li> <li>Best impression (automatic continuous presence layouts)</li> <li>Encryption and dual stream from any site</li> </ul>
Protocols	<ul><li>H.323</li><li>SIP</li><li>Cisco Webex</li></ul>
Embedded encryption	<ul> <li>H.323 and SIP point-to-point</li> <li>Standards-based: H.235 v3 and Advanced Encryption Standard (AES)</li> <li>Automatic key generation and exchange</li> </ul>
IP network features	<ul> <li>DNS lookup for service configuration</li> <li>Differentiated services (Quality of Service [QoS])</li> <li>IP-adaptive bandwidth management (including flow control)</li> <li>Automatic gatekeeper discovery</li> <li>Dynamic playout and lip-sync buffering</li> <li>H.245 Dual-Tone Multifrequency (DTMF) tones in H.323</li> <li>RFC 4733 DTMF tones in SIP</li> <li>Date and time support using Network Time Protocol (NTP)</li> <li>Packet loss-based downspeeding</li> <li>Uniform Resource Identifier (URI) dialing</li> <li>Dynamic Host Configuration Protocol (DHCP)</li> </ul>

Specification	Description
	<ul> <li>802.1X network authentication</li> <li>802.1Q virtual LAN</li> <li>802.1p (QoS and Class of Service [CoS])</li> <li>ClearPath</li> </ul>
Call control	<ul> <li>Cisco Unified Communications Manager (CUCM)</li> <li>Native registration with CUCM</li> <li>Requires CUCM Version 10.5.2 or later with device pack for Room 55</li> <li>Cisco Expressway</li> <li>Native registration with Expressway</li> <li>Cisco Webex</li> <li>Third-party H.323 Gatekeepers and standards-based SIP proxies</li> </ul>
IPv6 network support	<ul> <li>Single call stack support for both H.323 and SIP</li> <li>Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ</li> <li>Support for both static and automatic IP configuration (stateless address auto-configuration)</li> </ul>
Security features	<ul> <li>Management using HTTPS and SSH</li> <li>IP administration password</li> <li>Menu administration password</li> <li>Disable IP services</li> <li>Network settings protection</li> </ul>
Certificate management	<ul> <li>Certificate Authority Proxy Function (CAPF) support for additional security</li> <li>Manufacturer-Installed Certificates (MIC)</li> <li>Locally Significant Certificates (LSC)</li> <li>X.509 Digital Certificates (DER encoded binary); both DER and Base-64 formats are acceptable for the client and server certificates; certificates with a key size of 1024, 2048, and 4096 are supported</li> </ul>
Other interfaces	$\bullet$ USB 2.0 port type A, USB 2.0 port type B, $\mu \text{USB},$ factory reset pinhole
Power	<ul> <li>Autosensing power supply</li> <li>100-240 VAC, 1.8-0.8A, 50/60 Hz</li> <li>Rated: 142W maximum</li> <li>Power consumption: 142W at maximum standardized configuration</li> <li>Standby power consumption: 40W</li> </ul>
Operating temperature and humidity	<ul> <li>0°C to 40°C (32°F to 104°F) ambient temperature</li> <li>10% to 90% Relative Humidity (RH)</li> </ul>
Storage and transport temperature	<ul> <li>-20° C to 60° C (-4° F to 140° F) at RH 10% to 90% (noncondensing)</li> </ul>
Physical dimensions (H x W x D)	Cisco Webex Room 55 with: • Floor stand: 62.7 x 49 x 30.5 in (1593 x 1245 x 774mm) • Wall mount: 32.8 x 49.0 x 5.1 in (832 x 1245 x 130mm) • Wheel base: 62.7 x 49.0 x 30.5 in (1651 x 1245 x 774mm)

Specification	Description
Weight	Cisco Webex Room 55 with (all weight without packaging): • Floor stand: 83.8 lb (38kg) • Wall mount: 68.3 lb (31kg) • Wheel base: 85.1 lb (38.6kg) • Main unit only: 66.1 lb (30kg)
Physical dimensions and weight of packaging (H x W x D)	Cisco Webex Room 55 package size with: • Floor stand: 42.5 x 54.3 x 17.3 in (1080 x 1380 x 440mm) • Wall mount: 46.9 x 53.9 x 17.3 in (1190 x 1370 x 440mm) • Wheel base: 42.5 x 54.3 x 17.3 in (1080 x 1380 x 440mm) Cisco Webex Room 55 shipping weight with: • Floor stand: 110 lb (50kg) • Wall mount: 88 lb (40kg) • Wheel base: 110 lb (50kg)
Camera overview	<ul> <li>5K UltraHD camera</li> <li>Supports up to 60 fps (max 30 fps with speaker tracking and best overview enabled)</li> <li>15.1 MP image sensor (5184 x 2916 pixels)</li> <li>1/1.7 CMOS</li> <li>3x zoom</li> <li>f/2.0 aperture</li> <li>83° horizontal field of view/51.5° vertical field of view</li> <li>Auto-framing (audio + face detect)</li> <li>Autofocus, brightness, and white balance</li> <li>Focus distance 1m to infinity</li> </ul>

#### **Regulatory compliance**

Directive 2014/35/EU (Low-Voltage Directive)

Directive 2014/30/EU (EMC Directive) - Class A

Directive 2014/53/EU (Radio Equipment Directive)

Directive 2011/65/EU (RoHS)

Directive 2002/96/EC (WEEE)

NRTL approved (Product Safety)

FCC CFR 47 Part 15B (EMC) - Class A

FCC Listed (Radio Equipment)

For approval documents per country, check the Product Approval Status Database at <u>https://www.ciscofax.com/</u>.

To place an order, contact your local Cisco representative and refer to Table 4.

#### Table 4.Ordering information

Product name	Part number	Compliance model number
Cisco Webex Room 55: Subscription pricing (MSRP*) Cisco Webex device with encryption Cisco Touch 10 control unit	CS-ROOM55-MSRP-K9 CS-R55-UNIT-K9+ CS-T10-TS+	TTC60-21 TTC5-09
Cisco Webex Room 55: Upfront pricing (GPL**) Cisco Webex device with encryption Cisco Touch 10 control unit	CS-ROOM55-K9 CS-R55-UNIT-K9+ CS-T10-TS+	TTC60-21 TTC5-09
Cisco Webex Room 55: no radio Cisco Webex device no radio Cisco Touch 10 control unit	CS-ROOM55-NR-K9 CS-R55-UNIT-NR-K9+ CS-T10-TS+	TTC60-21 TTC5-09
Cisco Webex Room 55: no radio, no encryption Cisco Webex device no radio and no encryption Cisco Touch 10 control unit	CS-ROOM55-NR-K7 CS-R55-UNIT-NR-K7+ CS-T10-TS+	TTC60-21 TTC5-09
Options		
Presentation cable 8m 4kp30 certified	CAB-PRES-2HDMI-GR	
Spares		
Floor Stand Kit	CS-ROOM55-FSK=	
Wall Mount Kit	CS-ROOM55-WMK=	
Wheel Base Kit	CS-ROOM55-WBK=	
Wheels Upgrade Kit (With cable hook)	CS-ROOM55-WUK=	
Speaker Grille Kit	CS-ROOM55-SGK=	
Spare Rear Cover	CS-ROOM55-RC=	
Spare Touch 10 control Unit	CS-T10-TS+	
Spare Ethernet cable	CAB-NET-EN5M=	
Spare Microphone	CTS-MIC-TABL20=	
Spare Main Unit (Service purpose only)	CS-R55-UNIT-K9=	
Spare Main Unit Non Radio (Service purpose only)	CS-R55-UNIT-NR-K9=	
Spare Main Unit Non Radio and Non Encryption (Service purpose only)	CS-R55-UNIT-NR-K7=	

\* MSRP = manufacturer's suggested retail price

\*\* GPL = global price list

#### Warranty information

Cisco Webex Room 55 has a 90-day limited liability warranty.

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Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

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#### Call to action

- Learn more about Cisco Webex Room 55.
- Download the Cisco Webex app.

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Cisco Webex

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# **Cisco Webex Room 55 Dual**

# Contents

Features and benefits	4
Cisco Webex Room 55 Dual registration	5
Product specifications	6
Regulatory compliance	10
Standards	10
Ordering information	11
Warranty information	11
Cisco environmental sustainability	11
Cisco Services and Support	12
Cisco Capital	12
For more information	12

The Cisco Webex<sup>®</sup> Room 55 Dual is an all-in-one video conferencing system for rooms of up to 12 people. The Room 55 Dual is available with two 55-inch LED screens for a people-focused or a people- and content-focused experience. The system combines beautiful design and powerful functionality into an all-in-one solution for medium- to large-sized rooms. The Room 55 Dual will transform your meeting space into a video collaboration hub – whether for connecting teams across the globe or for local meetings.

#### **Overview**

The Cisco Webex Room 55 Dual delivers the unmatched video and audio experience customers have come to expect from Cisco. In addition, new capabilities enable even smarter meetings, smarter presentation capabilities, and smarter room and device integrations, further removing the barriers to usage and deployment of video in medium to large-sized rooms.

The Room 55 Dual – comprising a powerful codec, a quad camera, and dual 55-inch 4K display(s) with integrated speakers and microphones<sup>\*</sup> – is ideal for rooms that seat up to 12 people. It offers sophisticated camera technologies that bring speaker-tracking and auto-framing capabilities to medium- to large-sized rooms. The product is rich in functionality and experience and designed to be easily scalable to all of your conference rooms and spaces – whether registered on the premises or to Cisco Webex in the cloud.



\* Integrated microphones for speaker tracking only.

Figure 1. Cisco Webex Room 55 Dual on free-standing floor stand

### Features and benefits

#### **Table 1.**Features and benefits

Feature	Benefit
Design features	One of the most powerful and feature-rich video systems available with the ultimate in video and audio quality
	The next-generation 4K video collaboration codec
	The next-generation fully automatic HD camera
	Everything you need in one package (screens, speakers, codec, camera, touch user interface, microphones, mounting)
	Wall-mount or floor stand (two floor stand options included: freestanding and wall-secured floor stand)
Smart meetings	Brings intelligent views to medium- to large-sized rooms with discreet, integrated cameras
	Best overview: Automatically detects meeting participants and provides ideal framing
	Speaker tracking: Detects and switches between active speakers and provides ideal framing
	Great audio experience with integrated speakers and external microphones
	Automatic noise suppression reduces disruptive sounds coming from the meeting room (e.g., typing, paper rustling)
	Simplified meeting-join experience with One Button to Push (OBTP) for scheduled devices in a Cisco Webex meeting, whether registered on-premises or to Cisco Webex
	Automatic wake-up: System "wakes up" when someone walks into the room, and recognizes them through their mobile device
	Easily controlled by the $Cisco^\circ$ Webex Room Navigator or with a device with the $Cisco$ Webex app
	End-to-end security
Smart presentations	Supports dual screens for video and content
	Supports dual content sources for local meetings
	View whiteboard content and annotations shared from the Cisco Webex Board, Cisco Webex Desk Pro, or Cisco Webex <sup>™</sup> app; participate in whiteboarding sessions through the Webex app
	4K content sharing (local 30 fps; remote 5 fps)
	Wired or wireless content sharing
Smart integrations	Metrics: Counts people in the room, enabling analytics for better resource planning
	Supports Wi-Fi
	In-room control: Control peripherals such as lights and blinds through the Cisco Webex Room Navigator
Built for cloud and	Flexibility to register on the premises or to the cloud through Cisco Webex
premises	Hardware is optimized to run on a cloud platform, for great experiences in shared rooms and spaces with easy access to hosted conferences



#### Figure 2.

Cisco Webex Room 55 Dual in a large conference room

#### Bringing more intelligence to medium to large-sized rooms

The Cisco Webex Room 55 Dual is video innovation in an easy-to-install, all-in-one unit, bringing more intelligence and usability to your medium- to large-sized team collaboration rooms. While others are still struggling to insert advanced features such as speaker tracking, wireless sharing, and 4K content into their high-end products, Cisco is already proliferating these innovations to meeting rooms of all sizes in a cost-effective and simple way. With the Room 55 Dual, Cisco is helping customers experience smarter meetings, enable smarter presentations, and create smarter room and device integrations. And when registered to Cisco Webex in the cloud, additional cloud-based functionalities are enabled that enhance the user experience and team workflow as well as further simplifying deployment.

- Smart meetings: Powerful, integrated cameras deliver intelligent view capabilities, such as automatic framing and speaker tracking; automatic noise suppression reduces meeting interruptions
- Smart presentations: Dual screens, dual content sources, wireless sharing, and 4K content make for great presentations
- Smart integrations: People count for usage metrics and resource allocation, tight integrations with screens to enhance user interactions; APIs and macros allow meeting personalization
- Registration flexibility: Built for both cloud and on-premises deployment, protecting your investment

#### Cisco Webex Room 55 Dual registration

License Level	Term
Cisco Webex Device Subscription	Monthly or 1-, 2-, 3-, 4-, or 5-year options

# Product specifications

#### Table 2.Specifications

Specification	Description
Software compatibility	Cisco Collaboration Endpoint Software Version 9.14.5 or later, or Cisco Webex RoomOS
Default components in Cisco Webex Room 55 Dual	Cisco Webex Codec Plus for Room 55 Dual Cisco Webex Quad Camera Loudspeakers Cisco Webex Room Navigator control unit Mounting options: Floor stand or wall mount 2x Cisco Table Microphones 2x presentation cables (HDMI-to-HDMI), LAN cable, and power cable
Displays	2x 55-in. LCD monitors, LED backlight Resolution: 3840 x 2160 (16:9) Contrast ratio: Typical 1100 • Viewing angle: • +/- 178 degrees (typical) Response time: Typical 8 ms Brightness: typical 440 cd/m2
Optional hardware components	Additional Table Microphone, Cisco Ceiling Microphone
Bandwidth	• Up to 6 Mbps point to point
Minimum bandwidth for resolution/frame rate	H.264 720p30 from 768 kbps 720p60 from 1152 kbps 1080p30 from 1472 kbps 1080p60 from 2560 kbps
Firewall traversal	Cisco Expressway <sup>™</sup> technology H.460.18, H.460.19 firewall traversal
Video standards	• H.264, H.265
Video inputs	<ol> <li>HDMI input supports formats up to maximum 1080p60</li> <li>HDMI inputs support formats up to maximum 4K (3840 x 2160) at 30 fps including HD1080p60</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ol>
Video outputs	<ul> <li>2 HDMI outputs support formats up to 3840 x 2160p60 (4Kp60) (in use)</li> <li>Live video resolutions (encode and decode) up to 1920 x 1080p60 (HD1080p)</li> <li>• CEC 2.0</li> </ul>

Specification	Description
Audio standards	• G.711, G.722, G.722.1, G.729, AAC-LD, and Opus
Audio features	High-quality 20-kHz audio Prepared for inductive loop (line out) Automatic Echo Cancellation (AEC) Automatic Gain Control (AGC) Automatic noise reduction Active lip synchronization
Audio inputs	3 microphones, 4-pin mini-jack 1 audio in from HDMI
Audio outputs (external)	• 1 line out mini-jack (stereo)
Audio system	Integrated multichannel loudspeaker system with dedicated bass speakers Frequency response: 70 Hz to 20 kHz (+/- 3dB) Max output level SPL 104dB @ 1 m
Speaker tracking	8-element microphone array for accurate speaker tracking
Dual stream	H.239 (H.323) dual stream Binary Floor Control Protocol (BFCP) Session Initiation Protocol (SIP) dual stream Support resolutions up to 3840 x 2160p5 (4Kp5) and 1080p30
Wireless sharing	Cisco Webex app (up to 3840 x 2160p5) Cisco Intelligent Proximity client (up to 1920 x 1080p5)
Multipoint support	• 4-way embedded SIP/H.323 conferencing capability with MultiSite option
MultiSite features (embedded multipoint) (optional upgrade)	Adaptive SIP/H.323 MultiSite • 3-way resolution up to 1080p30 plus content up to 4Kp5 • 4-way resolution up to 720p30 plus content up to 4Kp5 Full individual audio and video transcoding H.323, SIP, and VoIP in the same conference Support for presentation (H.239/BFCP) from any participant at resolutions up to 3840 x 2160p5 Best impression (automatic continuous presence layouts) Encryption and dual stream from any site
Protocols	H.323 SIP Cisco Webex

Specification	Description
Embedded encryption	H.323 and SIP point-to-point Standards-based: H.235 v3 and Advanced Encryption Standard (AES) Automatic key generation and exchange
IP network features	DNS lookup for service configuration Differentiated Services (DiffServ) (Quality of Service [QoS]) IP-adaptive bandwidth management (including flow control) Automatic gatekeeper discovery Dynamic playout and lip-sync buffering H.245 Dual-Tone Multifrequency (DTMF) tones in H.323 RFC 4733 DTMF tones in SIP Date and time support using Network Time Protocol (NTP) Media adaption and resilience Uniform Resource Identifier (URI) dialing Dynamic Host Configuration Protocol (DHCP) 802.1X network authentication 802.1Q Virtual LAN 802.1p (QoS and Class of Service [CoS])
Call control	Cisco Unified Communications Manager (CUCM) <ul> <li>Native registration with CUCM</li> <li>Requires CUCM Version 10.5.2 or later with device pack for Room 55 Dual</li> </ul> <li>Cisco Expressway <ul> <li>Native registration with Expressway</li> </ul> </li> <li>Cisco Webex</li> <li>Third-party H.323 gatekeepers and standards-based SIP proxies</li>
Cisco TelePresence <sup>®</sup> Management Suite (TMS)	• Support for Room 55 Dual beginning with version 15.8 (available December 2018)
IPv6 network support	Single call stack support for both H.323 and SIP Dual-stack IPv4 and IPv6 for DHCP, Secure Shell (SSH), HTTP, HTTPS, DNS, DiffServ Support for both static and automatic IP configuration (stateless address auto configuration)
Security features	Management using HTTPS and SSH IP administration password Menu administration password Disable IP services Network settings protection
Certificate management	Certificate Authority Proxy Function (CAPF) support for additional security

Specification	Description
	Manufacturer-Installed Certificates (MIC) Locally Significant Certificates (LSC) X.509 Digital Certificates (DER encoded binary); both DER and Base-64 formats are acceptable for the client and server certificates; certificates with a key size of 1024, 2048, and 4096 are supported
Network interfaces codec medium	1 Ethernet (RJ-45) 10/100/1000 for LAN 1 Ethernet (RJ-45) 10/100/1000 for direct pairing with camera 1 Ethernet (RJ-45) 10/100/1000 with Power over Ethernet (PoE) for direct pairing with the Webex Room Navigator Wi-Fi 802.11a/b/g/n/ac 2.4 GHz/5 GHz for LAN 2x2 Multiple Input and Multiple Output (MIMO)
Other interfaces	• USB 2.0 port (in use, controlling the screens), micro-USB, factory reset pinhole
Power	Autosensing power supply 100 to 240 VAC, 50/60 Hz Average power 278W* Standby power: 94W * Power consumption under normal operating conditions as defined in IEC 60950-1
Operating temperature and humidity	0° to 35°C (32° to 95°F) ambient temperature 20% to 90% Relative Humidity (RH) Max operating altitude: 3000 m (9842 ft)
Storage and transport temperature	<ul> <li>-20° to 60°C (-4° to 140°F) at RH 10% to 90% (noncondensing)</li> </ul>
Dimensions	Cisco Webex Room 55 Dual with floor stand: • Width: 99.1 in. (2518 mm) • Height: 68.2 in. (1731 mm) • Depth: 36.3 in. (920 mm) • Weight, monitor modules: 233.7 lb (106 kg) • Weight, floor stand: 66.1 lb (30 kg) • Weight: 337 lb (153 kg) Cisco Webex Room 55 Dual with wall mount: • Width: 99.1 in. (2518 mm) • Height: 42.2 in. (1071 mm) • Depth: 5.9 in. (150 mm) • Weight, monitor modules: 233.7 lb (106 kg) • Weight, wall mount: 79.4 lb (36 kg) • Weight: 351 lb (159 kg)

Specification	Description
Camera overview	5K Ultra HD camera
	Supports up to 60 fps
	15.1 MP image sensor
	1/1.7 CMOS
	5x digital zoom (3 tele-lenses, each with 50° horizontal field of view)
	• f/2.0 aperture
	83° horizontal field of view; 51.5° vertical field of view
	Auto-framing (audio + face detect)
	5120 x 2880 pixel resolution (1080p output)
	Auto focus, brightness, and white balance
	Focus distance 1 m to infinity

#### Regulatory compliance

- Directive 2014/30/EU (EMC Directive) and Directive 2014/35/EU (Low-Voltage Directive) for the nonradio versions.
- Directive 2014/53/EU (Radio Equipment Directive) for the radio versions
- Directive 2011/65/EU (RoHS)
- Directive 2002/96/EU (WEEE)
- NRTL approved (Product Safety)
- FCC Listed (Radio Equipment)

#### Standards

- Radio: EN 300 328, EN 301 893, EN 300 440 (only for the radio versions)
- EMC: EN 301 489-1 & -17 (only for the radio versions), EN 55032 Class A, EN 55024
- Safety: EN 60950-1 (for radio and non-radio), EN 62479, EN 62311 (for the radio versions)
- FCC CFR 47 Part 15B (EMC) Class A
- FCC CFR 47 Part 15C (RF)
- FCC CFR 47 Part 15E (RF)

Please check the Product Approval Status Database at <u>https://www.ciscofax.com/</u> for approval documents per country.

#### Ordering information

To place an order, please contact your local Cisco representative and refer to Table 3.

**Table 3.**Ordering information

Product Name	Part Number	Compliance Model Number
Dual Screen		
Cisco Webex Room 55 Dual - Upfront pricing (GPL)	CS-ROOM55D-K9	TTC60-25
Cisco Webex Room 55 Dual - NO RADIO	CS-ROOM55D-NR-K9	TTC60-25
Cisco Webex Room 55 Dual - NO CRYPTO, NO RADIO	CS-ROOM55D-NR-K7	TTC60-25
Shielded cable for Ceiling Microphone (non-plenum rated)	CAB-ETHRSHLD-10M	
8 m HDMI 2.0 certified cable	CAB-PRES-2HDMI-GR	
Software options-ordered separately		
Remote Monitoring	L-ROOM-RM (L-TP-RM)	
MultiSite (embedded multipoint)	L-ROOM70-MS (L-ROOM-PAK)	
Spares		
See separate spare-part document		

#### Warranty information

The Cisco Webex Room 55 Dual has a 90-day limited liability warranty.

#### Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of <u>Cisco's Corporate Social Responsibility</u> (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

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#### For more information

- Learn more about <u>Cisco Webex Room 55 Dual</u>.
- Download the Cisco Webex app.

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# Webex Room Kit





# Contents

- 03 Webex Room Kit overview
- 04 Webex Room Kit features and benefits
- 05 Webex Room Kit prominent feature/differentiator
- 05 Webex Room Kit registration
- 06 Product specifications
- 11 Regulatory compliance
- 12 Ordering information
- 15 Warranty information
- 15 Cisco environmental sustainability
- 15 Cisco Service and Support
- 15 Cisco Capital



Above: Webex Room Kit in small room scenario

Webex Room Kit is a powerful collaboration solution that integrates with flat panel displays to bring more intelligence and usability to your small to medium-sized meeting rooms-whether registered on the premises or to Webex in the cloud.

# Webex Room Kit overview

Webex<sup>®</sup> Room Kit delivers the unmatched video and audio experience customers have come to expect from Cisco. In addition, new capabilities enable even smarter meetings, smarter presentation capabilities, and smarter room and device integrations—further removing the barriers to usage and deployment of video in small to medium-sized rooms. The Room Kit–which includes camera, codec, speakers, and microphones integrated in a single device–is ideal for rooms that seat up to seven people. It offers sophisticated camera technologies that bring speakertracking capabilities to smaller rooms. The product is rich in functionality and experience but is priced and designed to be easily scalable to all of your small conference rooms and spaces–whether registered on the premises or to the Webex cloud service.

# Webex Room Kit features and benefits

Table 1. Features and benefits

FEATURE	BENEFIT
Smart meetings	<ul> <li>Brings intelligent views to smaller rooms with a discreet, integrated camera</li> <li>Best overview: Automatically detects meeting participants and provides ideal framing</li> <li>Speaker tracking: Detects and switches between active speakers and provides ideal framing</li> </ul>
	<ul> <li>Great audio experience with integrated microphones and speakers; supports room elegance with no wires or microphones on the table</li> <li>Automatic noise suppression reduces disruptive sounds coming from the meeting room (e.g., typing, paper rustling)</li> <li>Simplified meeting-join experience with One Button to Push (OBTP) for scheduled devices in a Webex meeting, whether registered on-prem or to the Webex cloud service</li> <li>Automatic wake-up: System "wakes up" when someone walks into the room, and recognizes them through their mobile device</li> <li>Easily controlled by the Webex Room Navigator control unit or with a Webex app</li> <li>End-to-end security</li> </ul>
Smart presentations	<ul> <li>Supports dual screens for video and content</li> <li>Supports dual content sources for local meetings</li> <li>View whiteboard content and annotations shared from Webex Board, Webex Desk Pro, or the</li> <li>Webex app; participate in whiteboarding sessions through the Webex app*</li> <li>4K content sharing (local 30 fps; remote 5 fps)</li> <li>Wired or wireless content sharing (only two wires required-power and HDMI)</li> </ul>
Smart rooms	<ul> <li>Metrics: Counts people in the room, enabling analytics for better resource planning</li> <li>Automatic screen/display integration through HDMI CEC</li> <li>Supports Wi-Fi</li> <li>In-room control: Control peripherals such as lights and blinds through the Webex Room Navigator</li> </ul>
Built for cloud and premises	<ul> <li>Flexibility to register on the premises or to the cloud through Webex</li> <li>Hardware is optimized to run on a cloud platform, for great experiences in shared rooms and spaces with easy access to hosted conferences</li> </ul>

<sup>\*</sup> Supported on Webex-registered devices only



Figure 1. Webex Room Kit with a dual screen setup in a mid-sized meeting room

# Webex Room Kit prominent feature/differentiator

# Bringing more intelligence to small and medium-sized rooms

The Webex Room Kit offers video innovation in a box, bringing more intelligence and usability to your small to medium team collaboration rooms. While others are still struggling to insert advanced features such as speaker tracking, wireless sharing, and 4K content into their high-end products, Cisco is already bringing these innovations to meeting rooms of all sizes in a costeffective and simple way. With the Room Kit, Cisco is helping customers experience smarter meetings, enable smarter presentations, and create smarter room and device integrations.

These features were previously the domain of higherend video conferencing rooms, but can now be brought to every room and every team. And when registered to Webex, additional cloudbased functionalities are enabled that enhance the user experience and team workflow as well as further simplifying deployment.

- Smart meetings: Powerful, integrated cameras deliver intelligent view capabilities, such as automatic framing and speaker tracking; automatic noise suppression reduces meeting disruptions
- Smart presentations: Ideal to pair with dual screens while supporting dual content sources, wireless sharing, and 4K content make for great presentations
- Smart rooms: People count for usage metrics and resource allocation; tight integrations with screens to enhance user interactions; APIs and macros allow meeting personalization
- Registration flexibility: Built for both cloud and onpremises deployment, protecting your investment

# Webex Room Kit registration

Table 2. Product registration

LICENSE LEVEL	TERM
Webex Device Subscription	<ul> <li>Monthly or 1-, 2-, 3-, 4-, or 5-year options</li> </ul>
## **Product specifications**

Table 3. Product specifications

SPECIFICATION	DESCRIPTION
Software compatibility	Cisco Collaboration Endpoint Software Version 9.14.5 or later, and Webex Room OS
Default components in Webex Room Kit	$\begin{tabular}{ c c c c c } \hline \hline$
Optional hardware components	<ul> <li>Cisco Table Microphone</li> <li>Microphone extension cable</li> <li>HDMI second monitor cable 1.5 m/4.9 ft.</li> <li>HDMI presentation cable 8 m/26.2 ft.</li> </ul>
Bandwidth	Up to 6 Mbps point-to-point
Minimum bandwidth for resolution/ frame rate	<ul> <li>H.264:</li> <li>720p30 from 768 kbps</li> <li>720p60 from 1152 kbps</li> <li>1080p30 from 1472 kbps</li> <li>1080p60 from 2560 kbpsw</li> </ul>

SPECIFICATION	DESCRIPTION
Firewall traversal	<ul> <li>Cisco Expressway™ technology</li> <li>H.460.18, H.460.19 firewall traversal</li> </ul>
Video standards	• H.264, H.265
Video inputs	<ul> <li>One HDMI input supports formats up to maximum 4K (3840 x 2160) at 30 fps including HD1080p60</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>
Video outputs	<ul> <li>Two HDMI outputs support formats up to 3840 x 2160p60 (4Kp60)</li> <li>Live video resolutions (encode and decode) up to 1920 x 1080p30 and p60 (HD1080p)</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>
Audio standards	• G.711, G.722, G.722.1, G.729, AAC-LD, and Opus
Audio features	<ul> <li>High-quality 20 kHz audio</li> <li>Prepared for subwoofer (line out)</li> <li>Prepared for inductive loop (line out)</li> <li>Automatic Gain Control (AGC)</li> <li>Automatic noise reduction</li> <li>Active lip synchronization</li> </ul>
Audio inputs	<ul> <li>Two microphones, 4-pin mini-jack</li> <li>One audio in from HDMI</li> <li>Internal microphone</li> <li>Bluetooth<sup>®</sup> - Not available on Non Radio Version*</li> </ul>
Audio outputs (external)	<ul> <li>1 line out mini-jack (stereo)</li> <li>Bluetooth<sup>®</sup> - Not available on Non Radio Version*</li> </ul>

SPECIFICATION	DESCRIPTION
Speakers (integrated)	<ul> <li>High-quality speakers: five speakers in balanced configuration</li> <li>Frequency response 70 Hz to 20 kHz</li> <li>Amplifier power: 24W</li> <li>Max output level SPL 86 dB</li> </ul>
Speaker tracking	6-element microphone array for accurate speaker tracking
Dual stream	<ul> <li>H.239 (H.323) dual stream</li> <li>Binary Floor Control Protocol (BFCP) (SIP) dual stream</li> <li>Supports resolutions up to 3840 x 2160p5</li> </ul>
Wireless sharing	<ul> <li>Webex app appt (up to 3840 x 2160p5)</li> <li>Cisco Intelligent Proximity client (up to 1920 x 1080p5)</li> <li>Miracast (1080p30) - Not available on Non radio version*</li> </ul>
Multipoint support	4-way embedded SIP/H.323 conferencing capability with MultiSite option
MultiSite features (embedded multipoint) (optional upgrade)	<ul> <li>Adaptive SIP/H.323 MultiSite: <ul> <li>3-way resolution up to 1080p30 + content up to 4Kp5</li> <li>4-way resolution up to 720p30 + content up to 4Kp5</li> </ul> </li> <li>Full individual audio and video transcoding</li> <li>H.323/SIP/VoIP in the same conference</li> <li>Support for presentation (H.239/BFCP) from any participant at resolutions up to 3840 x 2160p5</li> <li>Best Impression (automatic continuous presence layouts)</li> <li>Encryption and dual stream from any site</li> </ul>
Protocols	<ul> <li>H.323</li> <li>SIP</li> <li>Cisco Webex</li> </ul>
Embedded encryption	<ul> <li>H.323 and SIP point-to-point</li> <li>Standards-based: H.235 v3 and Advanced Encryption Standard (AES)</li> <li>Automatic key generation and exchange</li> </ul>

#### Table 3. Product specifications

SPECIFICATION	DESCRIPTION
IP network features	<ul> <li>DNS lookup for service configuration</li> <li>Differentiated services (Quality of Service [QoS])</li> <li>IP-adaptive bandwidth management (including flow control)</li> <li>Automatic gatekeeper discovery</li> <li>Dynamic playout and lip-sync buffering</li> <li>H.245 Dual-Tone Multifrequency (DTMF) tones in H.323</li> <li>RFC 4733 DTMF tones in SIP</li> <li>Date and time support using Network Time Protocol (NTP)</li> <li>Media adaptation and resilience</li> <li>Uniform Resource Identifier (URI) dialing</li> <li>Dynamic Host Configuration Protocol (DHCP)</li> <li>802.1X network authentication</li> <li>802.1Q Virtual LAN</li> <li>802.1p (QoS and Class of Service [CoS])</li> </ul>
Call Control	<ul> <li>Cisco Unified Communications Manager (CUCM) <ul> <li>Native registration with CUCM</li> <li>Requires CUCM Version 10.5.2 or later with device pack for Room Kit</li> </ul> </li> <li>Cisco Expressway <ul> <li>Native registration with Expressway</li> <li>Cisco Webex Service</li> <li>Third-party H.323 Gatekeepers and standards-based SIP proxies</li> </ul> </li> </ul>
IPv6 network support	<ul> <li>Single call stack support for both H.323 and SIP</li> <li>Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ</li> <li>Support for both static and automatic IP configuration (stateless address auto configuration)</li> </ul>
Security features	<ul> <li>Management using HTTPS and SSH</li> <li>IP administration password</li> <li>Menu administration password</li> <li>Disable IP services</li> <li>Network settings protection</li> </ul>

SPECIFICATION	DESCRIPTION
Certificate management	<ul> <li>Certificate Authority Proxy Function (CAPF) support for additional security</li> <li>Manufacturer-Installed Certificates (MIC)</li> <li>Locally Significant Certificates (LSC)</li> <li>X.509 Digital Certificates (DER encoded binary); both DER and Base-64 formats are acceptable for the client and server certificates; certificates with a key size of 1024, 2048, and 4096 are supported</li> </ul>
Network interfaces	<ul> <li>One Ethernet (RJ-45) 10/100/1000 for LAN</li> <li>One Ethernet (RJ-45) for Webex Room Navigator touch panel direct pairing</li> <li>Wi-Fi 802.11a/b/g/n/ac 2.4 GHz/5 GHz, - not available in non-radio versions</li> <li>2x2 MIMO</li> <li>Note: Due to compliance regulations, it is required that 802.11d is enabled in the access point for the product to operate properly within 5725 MHz–5875 MHz. Using a Wifi connection is a flexible option, however an Ethernet connection is always preferred for high performance.</li> </ul>
Other interfaces	USB 2.0 port, micro USB port, factory reset pinhole
Power	<ul> <li>100 to 240 VAC, 50/60 Hz, 12V DC input</li> <li>Average 20W, peak 70W</li> </ul>
Operating temperature and humidity	<ul> <li>0°C to 40°C (32°F to 104°F) ambient temperature</li> <li>10% to 90% Relative Humidity (RH)</li> </ul>
Storage and transport temperature	<ul> <li>-20°C to 60°C (-4°F to 140°F) at RH 10% to 90% (noncondensing)</li> </ul>
Locking mechanism	Kensington security lock

#### **Table 3.**Product specifications

SPECIFICATION	DESCRIPTION
Dimensions	88 <sup>4</sup> 106 
	<ul> <li>Width: 27.5 in. (70.0 cm)</li> <li>Height: 3.5 in. (10.6 cm)</li> <li>Depth: 2.9 in. (8.8 cm)</li> <li>Weight: 7 lb. (3.2 kg)</li> </ul>
Camera overview	<ul> <li>5K UltraHD camera</li> <li>Supports up to 60 fps (max 30 fps with speaker tracking and best overview enabled)</li> <li>15.1 MP image sensor (5184 x 2916 pixels)</li> <li>1/1.7 CMOS</li> <li>3x zoom</li> <li>f/2.0 aperture</li> <li>83° horizontal field of view; 51.5° vertical field of view</li> <li>Auto framing (audio + face detect)</li> <li>Auto focus, brightness, and white balance</li> <li>Focus distance 1 m to infinity</li> </ul>

\* The Bluetooth<sup>®</sup> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Cisco Systems, Inc. is under license. Other trademarks and trade names are those of their respective owners.

## **Regulatory compliance**

Directive 2014/35/EU (Low-Voltage Directive)	NRTL approved (Product Safety)
Directive 2014/30/EU (EMC Directive)–Class A	FCC CFR 47 Part 15B (EMC)–Class A
Directive 2014/53/EU (Radio Equipment Directive)	FCC Listed (Radio Equipment)
Directive 2011/65/EU (RoHS)	Please check the Product Approval Status Database
Directive 2002/96/EC (WEEE)	ciscofax.com for approval documents per country.

## Ordering information

To place an order, <u>contact</u> your local Cisco representative and refer to the table below.

 Table 4.
 Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Webex Room Kit–Subscription pricing (MSRP*)	CS-KIT-MSRP-K9 CS-KIT-S-M-UNIT+	TTC7-23 TTC5-15
<ul> <li>Webex Room Kit Unit</li> <li>Webex Room Navigator Control Unit</li> <li>MSRP Cisco Webex Service</li> </ul>	CS-T10-TS+ A-SPK-SH-RMK (A-SPK-SH)	
<ul> <li>Webex Room Kit–Upfront pricing (GPL**)</li> <li>Webex Room Kit Unit</li> <li>Webex Room Navigator Control Unit</li> </ul>	CS-KIT-K9 CS-KIT-S-UNIT+ CS-T10-TS+	TTC7-23 TTC5-15
<ul> <li>Webex Room Kit–NO RADIO</li> <li>Webex Room Kit Unit</li> <li>Webex Room Navigator Control Unit</li> </ul>	CS-KIT-NR-K9 CS-KIT-S-NR+ CS-T10-TS+	TTC7-23 TTC5-15
<ul> <li>Webex Room Kit–TAA</li> <li>Webex Room Kit Unit</li> <li>Webex Room Navigator Control Device</li> </ul>	CS-KIT-K9++ CS-KIT-S-UNIT++ or CS-KIT-S-NR++ CS-T10-TS+	TTC7-23 TTC5-15
<ul> <li>Webex Room Kit—No Encryption</li> <li>Webex Room Kit</li> <li>Webex Room Navigator Control Unit</li> </ul>	CS-KIT-K7 CS-KIT-S-UNITK7+ CS-T10-TS+	TTC7-23 TTC5-15

\* MSRP = Manufacturer's Suggested Retail Price

\*\* GPL = Global Price List

 Table 4.
 Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Options		
Cisco Table Microphone with 4-pin mini jack connector, 7.5 meters cable	CS-MIC-TABLE-J=	-
Cisco Table Microphone with 4-pin Euroblock connector, 9 meters cable	CS-MIC-TABLE-E=	-
Cisco Table Microphone extension cable for the 4-pin mini jack cables, 9 meters	CAB-MIC-EXT-J=	-
Cisco Table Microphone extension cable for the 4-pin mini Euroblock cables, 9 meters	CAB-MIC-EXT-E=	-
Second screen 1.5 m HDMI 2.0 certified cable	CAB-2HDMI-1.5M-GR	-
Presentation cable 8 m 4kp30 certified	CAB-PRES-2HDMI-GR	-
Software options – ordered separately		
Remote Monitoring	L-ROOM-RM (L-TP-RM)	-
MultiSite (embedded multipoint) L-KIT	L-KIT-MS (L-ROOM-PAK)	-
Spares		
Webex Room Kit–Subscription (MRSP)–SPARE	CS-KIT-UNIT=	TTC7-23
Webex Room Kit–Upfront (GPL)–SPARE	CS-KIT-UNIT=	TTC7-23

 Table 4.
 Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Webex Room Kit–No Radio–SPARE	CS-KIT-NR=	TTC7-23
Webex Room Kit–No Encryption–SPARE	CS-KIT-UNITK7=	TTC7-23
Power Supply for Room Kit	PSU-12VDC-70W-GR=	FSP070-AHAN2, ADF019
Webex Room Navigator Control Unit	CS-T10-TS+	TTC5-15
Cisco PoE power injector	CS-POE-INJ=	POE16U-1AF, FA015LS1-00
Cisco Table Microphone spare cable for the 4-pin mini jack connector, 7.5mm cable	CAB-MIC-TABLE-J=	-
Cisco Table Microphone spare cable for the 4-pin Euroblock connector, 9m cable	CAB-MIC-TABLE-E=	-
Cisco Table Microphone spare table-top metal plate (3 units)	CS-MIC-TABLE-PLA=	-
Cable Cover for Room Kit	CS-KIT-CAB-COV=	-
Screen Mount Kit for Room Kit	CS-KIT-S-SMK=	-
Wall Mount Kit for Room Kit	CS-KIT-S-WMK=	-

## Warranty information

Webex Room Kit has a 90-day limited liability warranty.

## Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of <u>Cisco's Corporate</u>. <u>Social Responsibility</u> (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

SUSTAINABILITY TOPIC	REFERENCE
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

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For more information Learn more about the <u>Webex Room Kit</u>. Download the <u>Webex App</u>.

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# Webex Room Kit Mini





# Contents

03	Product overview
04	Features and benefits
05	Prominent features and differentiators
05	An affordable way to purchase hardware
05	Product registration
06	Product specifications
11	Regulatory compliance
11	Ordering information
13	Warranty information
13	Cisco services and support
13	Cisco Capital



Above: Webex Room Kit Mini in a remote workspace

## Webex<sup>®</sup> Room Kit Mini is an Artificial Intelligence (AI)-powered video conferencing system custom-designed for the huddle workstyle.

Easy to use, deploy, and manage, it combines codec, camera, microphones, and speakers into a single device that integrates with a 4K display to bring more intelligence and usability to all of your huddle rooms and spaces.

## **Product overview**

Room Kit Mini delivers the industry-leading collaboration experience customers have come to expect from Cisco, which is consistent whether you're in a huddle space or a corporate boardroom. Easy deployment and management capabilities allow customers to outfit and support thousands of huddle spaces with intelligent collaboration tools typical of larger room systems—at high value—while unique analytics provide valuable insight on utilization for resource planning. Together, these features allow Cisco to remove the barriers to use and deployment, and enable the new huddle work style embraced by today's workforce. Room Kit Mini is rich in functionality and experience, while priced and designed to be easily scalable.

The Room Kit Mini is ideal for huddle spaces with three to five people because of its wide 120-degree field of view, which allows everyone in a huddle space to be seen. It also offers the flexibility to connect to laptop-based video conferencing software via USB. The Mini is tightly integrated with the industry-leading Webex platform for continuous workflow, and can register on premises or to Webex in the cloud.

## Features and benefits

Table 1. Features and benefits

FEATURE	BENEFIT
Smart meetings	<ul> <li>Brings intelligent views to smaller rooms with a discreet, integrated camera <ul> <li>Best overview: Automatically detects meeting participants and provides ideal framing</li> </ul> </li> <li>Great audio experience with integrated microphones and speakers</li> <li>Automatic noise suppression reduces disruptive sounds coming from the meeting room (e.g., typing, paper rustling)</li> <li>Simplified meeting-join experience with One Button To Push (OBTP) for scheduled devices in a Webex meeting, whether registered on-premises or to the Webex Cloud</li> <li>Automatic wake-up: System "wakes up" when someone walks into the room, and recognizes them through their mobile device</li> <li>Easily controlled by the Webex Room Navigator control unit or with a Webex app</li> <li>End-to-end security</li> </ul>
Smart presentations	<ul> <li>View white board content and annotations shared from a Webex Board, Webex Desk Pro, or the Webex app; participate in whiteboarding sessions through the Webex app*</li> <li>4K content sharing (local 30 fps; remote 5 fps)</li> <li>Wired or wireless content sharing (only two wires required–power and HDMI)</li> </ul>
Smart rooms	<ul> <li>Metrics: Counts people in the room, enabling analytics for better resource planning</li> <li>Automatic screen/display integration through HDMI CEC</li> <li>Supports Wi-Fi</li> <li>In-room control: Control peripherals such as lights and blinds through the Webex Room Navigator</li> </ul>
Built for cloud and premises	<ul> <li>Flexibility to register on-premises or to the cloud through Webex</li> <li>Hardware is optimized to run on a cloud platform for great experiences in shared rooms and spaces with easy access to hosted conferences</li> </ul>

\* Supported on Cisco Webex-registered devices only

## Prominent features and differentiators

Bringing more intelligence to the huddle workstyle

The Webex Room Kit Mini offers collaboration innovation in a box, bringing more intelligence and usability to your huddle spaces. While other vendors struggle to insert advanced features such as automatic framing, wireless sharing, and 4K content into their high-end products, Cisco is bringing these innovations to huddle spaces in a cost-effective and simple way. With the Room Kit Mini, Cisco is helping customers experience smarter meetings, enabling smarter presentations, and creating smarter room and device integrations.

These features were previously the domain of higherend video conferencing rooms, but can now be brought to every room and every team. And when registered to Webex, additional cloud-based functionalities are enabled that enhance the user experience and team workflow as well as further simplifying deployment.

## An affordable way to purchase hardware

Cisco Webex Hardware as a Service provides a new way to purchase hardware with a simple, scalable and flexible way to pay. Stay up to date with the latest models of IP Phones and Webex Devices to enhance collaboration and create workspaces for the future. And get ready Some examples include:

- Smart meetings: Powerful integrated cameras deliver intelligent view capabilities, such as automatic framing; automatic noise suppression reduces meeting disruptions
- Smart presentations: Dual content sources, wireless
   sharing, and 4K content make for great presentations
- Smart rooms: People count for usage metrics and resource allocation; tight integrations with screens enhance user interactions; APIs and macros allow meeting personalization
- Registration flexibility: Built for both cloud and onpremises deployment, protecting your investment
- Join any meeting: A USB passthrough enables interoperability with any cloud service provider

for all the power of Cisco's unified cloud platform! Learn more about Webex Hardware as a Service and the devices available. Click here to access the Webex Hardware as a Service datasheet.

## **Product registration**

Table 2. Product registration

LICENSE LEVEL	TERM
Webex Device Subscription	Monthly or 1-, 2-, 3-, 4-, or 5-year options

## **Product specifications**

Table 3. Product specifications

SPECIFICATION	DESCRIPTION	
Software compatibility	Cisco Collaboration Endpoint Software Version 9.14.5 or later, and Cisco Webex RoomOS	
Default components in Webex Room Kit Mini	Room Kit Mini unit and power adapter	
	Room Navigator with Ethernet cable, flat (8 m/26.2 ft) Network cable, round (8 m/26.2 ft) Sm/16.4 ft HDMI cable 1.5 m/4.9 ft	
	Wall Mount Kit Privacy cover	
Optional hardware components	<ul> <li>HDMI presentation cable 8 m / 26.2 ft</li> <li>4 m / 13 ft USB cable for USB pass-through feature</li> <li>Screen Mount Kit</li> </ul>	
Bandwidth	Up to 6 Mbps point to point	
Minimum bandwidth for resolution / frame rate	H.264: • 720p30 from 768 kbps • 720p60 from 1152 kbps • 1080p30 from 1472 kbps • 1080p60 from 2560 kbps	

SPECIFICATION	DESCRIPTION	
Firewall traversal	<ul> <li>Cisco Expressway™ technology</li> <li>H.460.18, H.460.19 firewall traversal</li> </ul>	
Video standards	• H.264	
Video inputs          • One HDMI input supports formats up to maximum 4K (3840 x 2160) at 30 fps, including HD1080p60		
	Consumer Electronics Control (CEC) 2.0	
Video outputs	<ul> <li>1 HDMI output supports formats up to 3840 x 2160p60 (4Kp60)</li> <li>Live video resolutions (encode and decode) up to 1920 x 1080p30 and p60 (HD1080p)</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>	
Audio standards	• G.711, G.722, G.722.1, G.729, AAC-LD, and Opus	
Audio features	<ul> <li>High-quality 20 kHz audio</li> <li>Automatic Gain Control (AGC)</li> <li>Automatic noise reduction</li> <li>Active lip synchronization</li> </ul>	
Audio inputs	<ul> <li>One audio in from HDMI</li> <li>Internal microphones</li> <li>Bluetooth<sup>®</sup> - Not available on Non Radio Version *</li> </ul>	
Speakers (integrated)	<ul> <li>High-quality speakers: full range speaker plus dual woofers in balanced configuration</li> <li>Frequency response 100 Hz to 20 kHz</li> <li>Amplifier power: 24W</li> <li>Max output level SPL 84 dB</li> </ul>	
MultiSite	<ul> <li>H.239 (H.323) dual stream</li> <li>Binary Floor Control Protocol (BFCP) (SIP) dual stream</li> <li>Supports resolutions up to 3840 x 2160p5</li> </ul>	
Dual stream	<ul> <li>One HDMI input supports formats up to maximum 4K (3840 x 2160) at 30 fps, including HD1080p60</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>	

SPECIFICATION	DESCRIPTION
Wireless sharing	• Webex app (up to 3840 x 2160p5)
Wholess sharing	Cisco Intelligent Proximity client (up to 1920 x 1080p5)
	Miracast (1080p30) – Not available on Non radio version
Multipoint support	4-way embedded SIP/H.323 conferencing capability with MultiSite option
MultiSite features	Adaptive SIP/H.323 MultiSite:
(embedded	3-way resolution up to 1080p30 + content up to 1080p15
multipoint)*	4-way resolution up to 720p30 + content up to 1080p15
manipoliny	Full individual audio and video transcoding
	H.323/SIP/VoIP in the same conference
	• Support for presentation (H.239/BFCP) from any participant at resolutions up to 3840 x 2160p5
	Best impression (automatic continuous presence layouts)
	Encryption and dual stream from any site
Protocols	• H.323
	• SIP
	Cisco Webex
Embedded	H.323 and SIP point to point
encryption	Standards-based: H.235 v3 and Advanced Encryption Standard (AES)
	Automatic key generation and exchange
IP network features	DNS lookup for service configuration
	Differentiated services (Quality of Service [QoS])
	IP-adaptive bandwidth management (including flow control)
	Automatic gatekeeper discovery
	Dynamic playout and lip-sync buffering
	H.245 Dual-Tone Multifrequency (DTMF) tones in H.323
	RFC 4733 DTMF tones in SIP
	Date and time support using Network Time Protocol (NTP)
	Media adaptation and resilience
	Uniform Resource Identifier (URI) dialing
	Dynamic Host Configuration Protocol (DHCP)
	802.1X network authentication
	802.1Q Virtual LAN
	802.1p (QoS and Class of Service [CoS])

SPECIFICATION	DESCRIPTION
Call control	<ul> <li>Cisco Unified Communications Manager (Unified CM)</li> <li>Native registration with Unified CM</li> <li>Requires Unified CM Version 9.1(2) or later with device pack Room Kit Mini</li> <li>Cisco Expressway</li> <li>Native registration with Expressway</li> <li>Cisco Webex Service</li> <li>Third-party H.323 gatekeepers and standards-based SIP proxies</li> </ul>
IPv6 network support	<ul> <li>Single call stack support for both H.323 and SIP</li> <li>Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ</li> <li>Support for both static and automatic IP configuration (stateless address auto configuration)</li> </ul>
Security features	<ul> <li>Management using HTTPS and SSH</li> <li>IP administration password</li> <li>Menu administration password</li> <li>Disable IP services</li> <li>Network settings protection</li> <li>Privacy cover</li> </ul>
Network interfaces	<ul> <li>One Ethernet (RJ-45) 10/100/1000 for LAN</li> <li>One Ethernet (RJ-45) for Cisco Touch 10 direct pairing</li> <li>Wi-Fi 802.11a/b/g/n/ac 2.4 GHz/5 GHz, 2x2 MIMO</li> <li>Note: Due to compliance regulations, it is required that 802.11d is enabled in the access point for the product to operate properly within 5725 MHz – 5875 MHz.</li> <li>Using a Wi-Fi connection is a flexible option, however an Ethernet connection is always preferred for high performance.</li> </ul>
USB passthrough	<ul> <li>Ability to join any web conferencing service and share content using the camera, microphones and speakers of Room Kit Mini with a USB cable connected with the external monitor and an HDMI cable connected with the computer.</li> <li>720p video resolution</li> </ul>
Other interfaces	<ul> <li>1 USB 2.0 port type A</li> <li>1 USB 2.0 port type C</li> <li>1 USB port</li> <li>Factory reset pinhole</li> </ul>

SPECIFICATION	DESCRIPTION	
Power	<ul> <li>100 to 240 VAC, 50/60 Hz, 12V DC input</li> <li>Average 20W, peak 70W</li> <li>Must be used with power supply FSP FSP070-AHAN2 or AcBel ADF019</li> </ul>	
Operating temperature and humidity	<ul> <li>0°C to 35°C (32°F to 104°F) ambient temperature</li> <li>10% to 90% Relative Humidity (RH)</li> </ul>	
Storage and transport temperature	<ul> <li>-20°C to 60°C (-4°F to 140°F) at RH 10% to 90% (non condensing)</li> </ul>	
Dimensions	<ul> <li>Width: 19.7 in. (50.0 cm)</li> <li>Height: 3.2 in. (8.1 cm)</li> <li>Depth: 3 in. (7.7 cm)</li> <li>Weight: 4 lb. (2 kg)</li> <li>Packaging size</li> <li>Width: 23.8 in. (60.5 cm)</li> <li>Height: 12.8 in. (32.6 cm)</li> </ul>	
	<ul> <li>Height: 12.8 iff. (32.8 cm)</li> <li>Depth: 8.5 in. (21.6 cm)</li> <li>Weight: 7 lb. (3.2 kg)</li> </ul>	
Camera overview	<ul> <li>4K UltraHD camera</li> <li>Supports up to 30 fps</li> <li>8 MP image sensor</li> <li>1/2.5" CMOS</li> <li>5x zoom</li> <li>f/1.4 aperture</li> <li>120° horizontal field of view</li> <li>Auto framing (face detect)</li> <li>Best overview</li> <li>Auto brightness, and white balance</li> <li>Focus distance 1 m to infinity</li> </ul>	

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webex by cisco

## **Regulatory compliance**

- Directive 2014/53/EU (Radio Equipment Directive)
   for the radio versions
- Directive 2014/30/EU (EMC Directive) for the non-radio versions
- Directive 2014/35/EU (Low-Voltage Directive)
   for the non-radio versions
- Directive 2011/65/EU (RoHS)
- · Directive 2002/96/EU (WEEE)

- NRTL approved (product safety)
- FCC CFR 47 Part 15B (EMC) Class A
- FCC CFR 47 Part 15C (RF)
- FCC CFR 47 Part 15E (RF)
- FCC Listed (radio equipment)

Please check the Product Approval Status Database for approval documents per country.

## Ordering information

To place an order, contact your local Cisco representative and refer to the table below.

#### Table 4. Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Webex Room Kit Mini - Upfront pricing (GPL**)	CS-KIT-MINI-K9	
Webex Room Kit Mini Unit	CS-KIT-MINI+	TTC7-26
Webex Room Navigator	CS-T10-TS+	TTC5-15
Webex Room Kit Mini - No radio	CS-KIT-MINI-NR-K9	
Webex Room Kit Mini Unit	CS-KIT-MINI-NR+	TTC7-26
Webex Room Navigator	CS-T10-TS+	TTC5-15
Webex Room Kit Mini - TAA	CS-KIT-MINI-K9++	
Webex Room Kit Mini Unit	CS-KIT-MINI-UNIT++ or	TTC7-26
Webex Room Navigator	CS-KIT-MINI-NR++	
	CS-T10-TS+	TTC5-15
Webex Room Kit Mini - No encrytption	CS-KIT-MINI-K7	
Webex Room Kit Mini Unit	CS-KIT-MINI-NR-K7+	TTC7-26
Webex Room Navigator	CS-T10-TS+	TTC5-15
Webex Room Kit Mini - Bundle SKU	CS-KIT-MINI-BUN	
Webex Room Kit Mini Unit		
<ul> <li>Option of adding SMP+, Multisite and Remote Monitoring</li> </ul>		

\*\* GPL = Global Price List

#### Table 4. Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
OPTIONS		
USB cable (type A connector)	CAB-USBC-4M-GR	
Screen Mount Kit	CS-KIT-MINI-SMK	
Cisco Table Multi-connector 4K, 9 meters	CAB-HDMI-MUL4K-9M	
Presentation cable 8 m 4kp30 certified (HDMI)	CAB-PRES-2HDMI-GR	
SOFTWARE OPTIONS - ORDERED SEPARATELY		
Remote Monitoring	L-ROOM-RM (L-TP-RM)	
MultiSite (embedded multipoint)	L-KITMINI-MS (L-ROOM-PAK)	
SPARES		
Webex Room Kit Mini – Upfront (GPL) – SPARE	CS-KIT-MINI=	TTC7-26
Webex Room Kit Mini – No radio – SPARE	CS-KIT-MINI-NR=	TTC7-26
Webex Room Kit Mini – No encryption – SPARE	CS-KIT-MINI-K7=	TTC7-26
Power Supply for Room Kit Mini	PSU-12VDC-70W-GR=	FSP070-AHAN2, ADF019
Webex Room Navigator control unit	CS-T10-TS+	TTC5-15
Screen Mount Kit for Room Kit	CS-KIT-MINI-SMK=	
Wall Mount Kit for Room Kit	CS-KIT-MINI-WMK=	
USB cable (type A connector)	CAB-USBC-4M-GR=	
Webex Room Kit Mini (unit) – SPARE	CS-KIT-MINI=	TTC7-26

## Warranty information

Webex Room Kit Mini has a 90-day limited liability warranty.

## Cisco services and support

Cisco and our partners provide a broad portfolio of smart, personalized services and support that can help you realize the full business value of your Cisco collaboration investment by increasing business agility and network availability. This portfolio of services accelerates business innovation by harnessing the network as a powerful business platform. For more information about these services, please visit cisco.com/go/collaborationservices.

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For more information Please visit cisco.com/go/roomkit

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May 2022

13

Cisco Webex

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## Webex Room Kit Plus

## Contents

Product overview	3
Product features and benefits	4
Webex Room Kit Plus prominent features and differentiators	5
An affordable way to purchase hardware	6
Product specifications	6
Ordering information	11
Warranty information	13
Cisco environmental sustainability	13
Cisco Services and Support	13
Cisco Capital	14
For more information	14



Webex Room Kit Plus is a powerful collaboration solution that integrates with flat-panel displays to bring more intelligence and usability to your medium to large-sized meeting rooms – whether registered on the premises or to Webex in the cloud.

#### Product overview

Webex<sup>™</sup> Room Kit Plus delivers the unmatched video and audio experience customers have come to expect from Cisco. In addition, new capabilities enable even smarter meetings, smarter presentation capabilities, and smarter room and device integrations – further removing the barriers to usage and deployment of video in medium to large-sized rooms.

The Room Kit Plus – comprising a powerful codec, a quad-camera bar with integrated speakers and microphones<sup>\*</sup> and the intelligent Room Navigator control panel – is ideal for rooms that seat up to 14 people. It offers sophisticated camera technologies that bring speaker-tracking and auto-framing capabilities to medium to large-sized rooms. The product is rich in functionality and experience but is priced and designed to be easily scalable to all of your conference rooms and spaces – whether registered on the premises or to the Webex cloud service.

<sup>\*</sup> Integrated microphones for speaker tracking only



#### Figure 1.

Webex Room Kit Plus in a conference room

### Product features and benefits

Feature	Benefit
Smart meetings	<ul> <li>Brings intelligent views to medium to large-sized rooms with discreet, integrated cameras</li> <li>Best overview: Automatically detects meeting participants and provides ideal framing</li> <li>Speaker tracking: Detects and switches between active speakers and provides ideal framing</li> <li>Great audio experience with integrated speakers</li> <li>Automatic noise suppression reduces disruptive sounds coming from the meeting room (e.g., typing, paper rustling)</li> <li>Simplified meeting-join experience with One Button To Push (OBTP) for scheduled devices in Webex meetings, whether registered on-prem or to the Webex cloud service</li> <li>Automatic wake-up: System "wakes up" when someone walks into the room, and recognizes them through their mobile device</li> <li>Easily controlled by the Webex Room Navigator control unit or with the Webex App</li> <li>End-to-end security</li> </ul>
Smart presentations	<ul> <li>Supports dual screens for video and content</li> <li>Supports dual content sources for local meetings</li> <li>View whiteboard content and annotations shared from Webex Board, Webex Desk Pro, or the Webex App; participate in whiteboarding sessions through the Webex App</li> <li>4K content sharing (local 30 fps; remote 5 fps)</li> <li>Wired or wireless content sharing</li> </ul>

Feature	Benefit
Smart integrations	<ul> <li>Metrics: Counts people in the room, enabling analytics for better resource planning</li> <li>Automatic screen/display integration through HDMI CEC</li> <li>Supports Wi-Fi</li> <li>Control system integration: Control peripherals such as lights and blinds through the Webex Room Navigator</li> </ul>
Built for cloud and premises	<ul> <li>Flexibility to register on the premises or to the cloud through Webex</li> <li>Hardware is optimized to run on a cloud platform, for great experiences in shared rooms and spaces with easy access to hosted conferences</li> </ul>





#### Figure 2.

Default components of the Webex Room Kit Plus: Webex Codec Plus, Webex Quad Camera, Webex Room Navigator

#### Webex Room Kit Plus prominent features and differentiators

#### Bringing more intelligence to medium to large-sized rooms

The Webex Room Kit Plus is video innovation in a box, bringing more intelligence and usability to your medium to large-sized rooms team collaboration rooms. While others are still struggling to insert advanced features such as speaker tracking, wireless sharing, and 4K content into their high-end products, Webex by Cisco is already proliferating these innovations to meeting rooms of all sizes in a cost-effective and simple way. With the Room Kit Plus, Webex is helping customers experience smarter meetings, enable smarter presentations, and create smarter room and device integrations. These features were previously the domain of higher-end video conferencing rooms, but can now be brought to every room and every team. And when registered to Webex, additional cloud-based functionalities are enabled that enhance the user experience and team workflow as well as further simplifying deployment.

- **Smart meetings:** Powerful, integrated cameras deliver intelligent view capabilities, such as automatic framing and speaker tracking; automatic noise suppression reduces meeting disruptions
- Smart presentations: Dual screens, dual content sources, wireless sharing, and 4K content make for great presentations
- **Smart rooms:** People count for usage metrics and resource allocation; tight integrations with screens to enhance user interactions; APIs and macros allow meeting personalization
- Audio-visual integration: The Codec Plus is an entry-level integrator codec, supporting third-party audio systems. Control systems can use RS-232 with a USB adapter, or SSH.
- Registration flexibility: Built for both cloud and on-premises deployment, protecting your investment



Figure 3. Webex Room Kit Plus in a large meeting room

#### An affordable way to purchase hardware

Webex Hardware as a Service provides a new way to purchase hardware with a simple, scalable and flexible way to pay. Stay up to date with the latest models of IP Phones and Webex Devices to enhance collaboration and create workspaces for the future. And get ready for all the power of Cisco's unified cloud platform! Learn more about Webex Hardware as a Service and the devices available. Click here to access the Webex Hardware as a Service data sheet.

#### **Product specifications**

Table 1. Specifications

Specification	Description
Software compatibility	Cisco Collaboration Endpoint Software Version 9.14.5 or later, or Webex RoomOS
Default components in Webex Room Kit Plus	<ul> <li>Webex Codec Plus</li> <li>Webex Quad Camera</li> <li>Webex Room Navigator control unit</li> <li>Wall mount for Quad Camera</li> </ul>
Available integrator bundles	• Webex Room Kit Plus PTZ 4K (featuring the Webex PTZ 4K Camera)
Optional hardware components	<ul> <li>Cisco Table Microphone, Cisco Ceiling Microphone, Wall mount for Codec Plus, cables, spare Webex PTZ 4K Camera, spare Webex Precision 60 Camera, spare Cisco TelePresence SpeakerTrack 60 Camera</li> </ul>
Bandwidth	Up to 6 Mbps point-to-point
Minimum bandwidth for	H.264

Specification	Description
resolution/frame rate	<ul> <li>720p30 from 768 kbps</li> <li>720p60 from 1152 kbps</li> <li>1080p30 from 1472 kbps</li> <li>1080p60 from 2560 kbps</li> </ul>
Firewall traversal	<ul> <li>Cisco Expressway<sup>™</sup> technology</li> <li>H.460.18, H.460.19 firewall traversal</li> </ul>
Video standards	<ul> <li>H.264, H.265, and H.263 for TANDBERG<sup>™</sup> MXP interoperability only</li> </ul>
Video inputs	<ul> <li>One HDMI input supports formats up to maximum 1080p60</li> <li>Two HDMI inputs support formats up to maximum 4K (3840 x 2160) at 30 fps including HD1080p60</li> <li>Extended Display Identification Data (EDID)</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>
Video outputs	<ul> <li>Two HDMI outputs support formats up to 3840 x 2160p60 (4Kp60)</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>
Encode and decode	<ul> <li>Main video: Full HD 1080p60</li> <li>Presentation channel: UHD 4K 2160p5, including 1080p30 and 720p60</li> </ul>
Audio standards	• G.711, G.722, G.722.1, G.729, AAC-LD, and Opus
Audio features	<ul> <li>High-quality 20 kHz audio</li> <li>Subwoofer line out for Quad Camera</li> <li>Prepared for inductive loop (line out)</li> <li>Automatic Gain Control (AGC)</li> <li>Automatic noise reduction</li> <li>Active lip synchronization</li> </ul>
Audio inputs	<ul> <li>Three microphones, 4-pin mini-jack</li> <li>Embedded audio on two HDMI inputs</li> <li>Bluetooth<sup>®</sup> - Not available on Non Radio Version<sup>*</sup></li> </ul>
Audio outputs	<ul> <li>1 line out mini-jack (stereo) (Codec Plus)</li> <li>1 RCA output for subwoofer (Quad Camera)</li> <li>Embedded audio on one HDMI output</li> <li>HDMI input #1 supports Audio Return Channel (ARC): Audio output to Quad Camera</li> <li>Bluetooth<sup>®</sup> - Not available on Non Radio Version<sup>*</sup></li> </ul>
Speakers (Quad Camera)	<ul> <li>High-quality speakers</li> <li>Frequency response: 70 Hz to 20 kHz</li> <li>Max output level SPL 90dB</li> </ul>
Speaker tracking (Quad Camera, SpeakerTrack 60)	<ul> <li>6-element microphone array for accurate speaker tracking</li> <li>Quad Camera can support group framing feature with 5x zoom capability</li> <li>SpeakerTrack 60 can support close-up feature with 20x zoom capability</li> </ul>
PresenterTrack (available when pairing with PTZ 4K Camera, Precision 60 Camera)	<ul> <li>Al-powered face and upper body detection capability</li> <li>Camera automatically follows the active presenter within a defined zone and helps ensure optimized view</li> </ul>

Specification	Description
Dual stream	<ul> <li>H.239 (H.323) dual stream</li> <li>Binary Floor Control Protocol (BFCP) (SIP) dual stream</li> <li>Support resolutions up to 3840 x 2160p5 (4Kp5),1080p30 and 720p60</li> </ul>
Wireless sharing	<ul> <li>Webex App (up to 3840 x 2160p5)</li> <li>Cisco Intelligent Proximity client (up to 1920 x 1080p5)</li> <li>Miracast (1080p30) - Not available on Non radio version*</li> </ul>
MultiSite features (embedded multipoint) (optional upgrade)	<ul> <li>Adaptive SIP/H.323 MultiSite <ul> <li>3-way resolution up to 1080p30 + content up to 4Kp5</li> <li>4-way resolution up to 720p30 + content up to 4Kp5</li> </ul> </li> <li>Full individual audio and video transcoding</li> <li>H.323/SIP/VoIP in the same conference</li> <li>Support for presentation (H.239/BFCP) from any participant at resolutions up to 3840 x 2160p5</li> <li>Best Impression (automatic continuous presence layouts)</li> <li>Encryption and dual stream from any site</li> </ul>
Protocols	<ul> <li>H.323</li> <li>SIP</li> <li>Webex</li> <li>ISDN PRI/BRI using the optional ISDN Link</li> </ul>
Embedded encryption	<ul> <li>H.323 and SIP point-to-point</li> <li>Standards-based: H.235 v3 and Advanced Encryption Standard (AES)</li> <li>Automatic key generation and exchange</li> </ul>
IP network features	<ul> <li>DNS lookup for service configuration</li> <li>Differentiated services (Quality of Service [QoS])</li> <li>IP-adaptive bandwidth management (including flow control)</li> <li>Automatic gatekeeper discovery</li> <li>Dynamic playout and lip-sync buffering</li> <li>H.245 Dual-Tone Multi-Frequency (DTMF) tones in H.323</li> <li>RFC 4733 DTMF tones in SIP</li> <li>Date and time support using Network Time Protocol (NTP)</li> <li>Uniform Resource Identifier (URI) dialing</li> <li>Dynamic Host Configuration Protocol (DHCP)</li> <li>802.1X network authentication</li> <li>802.1p [QoS and Class of Service (CoS)]</li> <li>Cisco Media Assure and ClearPath, including packet loss-based downspeeding</li> </ul>
Call control	<ul> <li>Cisco Unified Communications Manager (CUCM)</li> <li>Native registration CUCM</li> <li>Requires CUCM Version 10.5.2 or later with device pack Room Kit Plus</li> <li>Cisco Expressway</li> <li>Native registration with Expressway</li> <li>Webex</li> <li>Third-party H.323 Gatekeepers and standards-based SIP proxies</li> </ul>

Specification	Description
IPv6 network support	<ul> <li>Single call stack support for both H.323 and SIP</li> <li>Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ</li> <li>Support for both static and automatic IP configuration (stateless address auto configuration)</li> </ul>
Security features	<ul> <li>Management using HTTPS and SSH</li> <li>IP administration password</li> <li>Password to access administration features on Webex Room Navigator controller</li> <li>Disable IP services</li> <li>Network settings protection</li> </ul>
Certificate management	<ul> <li>Certificate Authority Proxy Function (CAPF) support for additional security</li> <li>Manufacturer-Installed Certificates (MIC)</li> <li>Locally Significant Certificates (LSC)</li> <li>X.509 Digital Certificates (DER encoded binary); both DER and Base-64 formats are acceptable for the client and server certificates; certificates with a key size of 1024, 2048, and 4096 are supported</li> </ul>
Other interfaces	• USB 2.0 port, mini USB port, factory reset pinhole
Network interfaces Codec Plus	<ul> <li>1 Ethernet (RJ-45) 10/100/1000 for LAN</li> <li>1 Ethernet (RJ-45) 10/100/1000 for direct pairing with camera (camera control)</li> <li>1 Ethernet (RJ-45) 10/100/1000 with PoE, for direct pairing with Webex Room Navigator</li> <li>Wi-Fi 802.11a/b/g/n/ac 2.4 GHz and 5 GHz for LAN- not available in non-radio versions</li> <li>2x2 multiple input and multiple output (MIMO)</li> <li>Note: Due to compliance regulations, it is required that 802.11d is enabled in the access point for the product to operate properly within 5725 MHz - 5875 MHz.</li> <li>Using a Wifi connection is a flexible option, however an Ethernet connection is always preferred for high performance.</li> </ul>
Power supplies (2)	<ul> <li>100 to 240 VAC, 50/60 Hz, 12V DC input</li> <li>Average 20 W, peak 70W</li> <li>Quad camera must be used with power supply FSP FSP070-AHAN2 or AcBel ADF019</li> </ul>
Operating temperature and humidity	<ul> <li>0°C to 35°C (32°F to 95°F) ambient temperature</li> <li>10% to 90% Relative Humidity (RH)</li> </ul>
Storage and transport temperature	• -20°C to 60°C (-4°F to 140°F) at RH 10% to 90% (noncondensing)
Locking mechanism	Kensington security lock

Specification	Description
Dimensions	<ul> <li>Quad Camera:</li> <li>Width: 37.4 in. (95.0 cm)</li> <li>Height: 4.7 in. (12.0 cm)</li> <li>Depth: 4.0 in. (10.3 cm)</li> <li>Weight: 10.6 lb. (4.8 kg)</li> <li>Image: Control of the control o</li></ul>
Camera overview (Quad Camera)	<ul> <li>Weight: 3.9 lb. (1.77 kg)</li> <li>(4) 5K CMOS sensors with machine intelligent switching; providing single HD output at 1080p</li> <li>Support up to 60 fps</li> <li>15.1 MP image sensor</li> <li>1/1.7 CMOS</li> <li>5x digital zoom (3 tele-lenses each with 50° horizontal field of view)</li> <li>f/2.0 aperture</li> <li>83° horizontal field of view; 51.5° vertical field of view</li> <li>Auto-framing (audio + face detect)</li> <li>5120 x 2880 pixel resolution</li> <li>Auto focus, brightness, and white balance</li> <li>Focus distance 1 m to infinity</li> </ul>
Camera overview (SpeakerTrack 60)	<ul> <li>1920 x 1080 at 60 frames per second (fps)</li> <li>10x optical zoom, 2x digital zoom, 20x zoom combined</li> <li>Pan range: +/-100 degrees, Tilt range: +/-20 degrees, Tracking horizontal FoV: 80 degrees</li> <li>Focus distance 1.0m to infinity (wide)</li> <li>F-value 1.5</li> <li>Manual or automatic to do focus, white balance, and brightness</li> </ul>

Specification	Description
Standards and Regulatory Compliance	<ul> <li>Regulatory compliance</li> <li>Directive 2014/35/EU (Low-Voltage Directive)</li> <li>Directive 2014/30/EU (EMC Directive) - Class A</li> <li>Directive 2014/53/EU (Radio Equipment Directive)</li> <li>Directive 2011/65/EU (RoHS)</li> <li>Directive 2002/96/EC (WEEE)</li> <li>NRTL approved (Product Safety)</li> <li>FCC CFR 47 Part 15B (EMC) - Class A</li> <li>Please check the Product Approval Status Database at <a href="https://www.ciscofax.com/">https://www.ciscofax.com/</a> for approval documents per country.</li> </ul>

<sup>\*</sup>The Bluetooth<sup>®</sup> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Cisco Systems, Inc. is under license. Other trademarks and trade names are those of their respective owners.

#### Ordering information

To place an order, please contact your local Cisco representative and refer to Table 2.

Table 2.	Ordering	information
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Product Name	Part Number	Compliance Model Number
Webex Room Kit Plus - Subscription pricing (MSRP*) • Webex Codec Plus • Webex Quad Camera • Webex Room Navigator Control Unit • Webex Service	CS-KITPLUS-MSRP-K9 CS-CODEC-PLUS+ CS-QUADCAM+ CS-T10-TS+ A-SPK-SH-RMK (A-SPK-SH)	TTC7-25 TTC8-10 TTC5-15
<ul> <li>Webex Room Kit Plus (GPL**)</li> <li>Webex Codec Plus</li> <li>Webex Quad Camera</li> <li>Webex Room Navigator Control Unit</li> </ul>	CS-KITPLUS-K9 CS-CODEC-PLUS+ CS-QUADCAM+ CS-T10-TS+	TTC7-25 TTC8-10 TTC5-15
<ul> <li>Webex Room Kit Plus - NO RADIO</li> <li>Webex Codec Plus - NO RADIO</li> <li>Webex Quad Camera</li> <li>Webex Room Navigator Control Unit</li> </ul>	CS-KITPLUS-NR-K9 CS-CODEC-PLUS-NR+ CS-QUADCAM+ CS-T10-TS+	TTC7-25 TTC8-10 TTC5-15
<ul> <li>Webex Room Kit Plus - NO CRYPTO</li> <li>Webex Codec Plus</li> <li>Webex Quad Camera</li> <li>Webex Room Navigator Control Unit</li> </ul>	CS-KITPLUS-K7 CS-CODEC-PL-NR-K7+ CS-QUADCAM+ CS-T10-TS+	TTC7-25 TTC8-10 TTC5-15

Product Name	Part Number	Compliance Model Number
Webex Room Kit Plus - TAA compliant	CS-KITPLUS-K9++	
• Webex Codec Plus - TAA, NO RADIO, or	CS-CODEC-PLUS-NR++	TTC7-25
• Webex Codec Plus - TAA	CS-CODEC-PLUS++	TTC7-25
<ul><li>Webex Quad Camera</li><li>Webex Room Navigator Control Unit</li></ul>	CS-QUADCAM+	TTC8-10
· · · · · · · · · · · · · · · · · · ·	CS-T10-TS+	TTC5-15
Options		
Cisco Table Microphone with 3.5mm plug	CS-MIC-TABLE-J=	
Extension cable for Table Microphone	CAB-MIC-EXT-J=	
Cisco Ceiling Microphone	CTS-MIC-CLNG-G2	
Shielded cable for Ceiling Mic (non-plenum rated)	CAB-ETHRSHLD-10M	
Wall Mount Kit for Codec Medium	CS-KITPLUS-WMK	
8 m HDMI 2.0 certified cable	CAB-PRES-2HDMI-GR	
HDMI 2.0 cable 1.5 m/5 ft, gray	CAB-2HDMI-1.5M-GR	
HDMI 2.0 cable 3 m/10 ft, gray	CAB-2HDMI-3M-GR	
Ethernet cable 1.5 m/5 ft, gray	CAB-ETH-1.5M-GR	
Ethernet cable 3 m/10 ft, gray	CAB-ETH-3M-GR	
Ethernet cable 5 m/16.4 ft, gray	CAB-ETH-5M-GR	
Software options - ordered separately		
Remote Monitoring	L-ROOM-RM (L-TP-RM)	
MultiSite (embedded multipoint)	L-KITPLUS-MS (L-ROOM-PAK)	
Spares		
Webex Codec Plus	CS-CODEC-PLUS=	TTC7-25
Webex Codec Plus - no radio, no crypto	CS-CODEC-PL-NR-K7=	TTC7-25
Webex Codec Plus - no radio	CS-CODEC-PLUS-NR=	TTC7-25
Webex Quad Camera	CS-QUADCAM=	TTC8-10
Webex PTZ 4K Camera	CS-CAM-PTZ4K=	EVI-X200C

Product Name	Part Number	Compliance Model Number
Webex Precision 60 Camera	CTS-CAM-P60=	TTC8-07
Power supply 12VDC 70W	PSU-12VDC-70W-GR=	

\* MSRP = Manufacturer's Suggested Retail Price

\*\* GPL = Global Price List

#### Warranty information

Webex Room Kit Plus has a 90-day limited liability warranty.

#### Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's <u>Corporate Social Responsibility</u> (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	<u>Materials</u>
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

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#### Cisco Capital

#### Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.

#### For more information

- Learn more about Webex Room Kit Plus.
- Learn more about Webex Room Kit Plus PTZ 4K Integrator Bundle.
- · Learn more about Webex Room Kit Plus Precision 60 Integrator Bundle.
- Download the Webex App.

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# Webex Room Kit Pro





# Contents

- 07 Product features
- 08 Product capabilities
- 18 Regulatory compliance
- 18 Standards
- 18 Ordering information
- 21 Cisco environmental sustainability
- 22 Cisco Service and Support
- 22 Cisco Capital



The Webex<sup>®</sup> Room Kit Pro provides a powerful and flexible platform for creating the ultimate video collaboration experience – large, custom video rooms, including boardrooms, auditoriums, classroom theaters, conference rooms and purpose-built workspaces for vertical applications. The Room Kit Pro is the most advanced product within the Room Kit Series, built with integrators in mind and enabling flexibility and creativity for customized video collaboration rooms that delight customers.

The Room Kit Pro acts as the audio and video engine for Ultra-High-Definition (UHD) video collaboration applications and AV integrations in which multiple screens, cameras, and content sources may be required – either with the Webex Quad Camera, PTZ 4K Camera, Precision 60 Camera, or SpeakerTrack 60 dual camera. The Room Kit Pro continues the same artificial intelligence capabilities already offered on the rest of the Webex Room Series: intelligent views and framing, noise suppression, voice commands, and people count.



Figure 1. The Webex Room Kit Pro with dual screen setup deployed in auditorium

The Room Kit Pro delivers up to 2160p60 end-to-end UHD video. The codec's rich set of video and audio inputs, flexible media engine, and support for up to three screens enable a variety of use cases, adaptable to your specific needs. The Room Kit Pro can be registered on premises or to the Webex cloud service.

The Room Kit Pro supports intelligent cameras and functionality to enable dynamic viewing capabilities and custom deployments for premium video meetings:

- Webex Quad Camera: Camera system with four embedded digital cameras that enable best overview and speaker tracking capabilities. With the Quad Camera, the Room Kit Pro can also deliver analytics such as people count.
- Webex SpeakerTrack 60 Camera: Dual camera system featuring a unique direct, fast-switching approach for speaker tracking with two Precision 60 cameras.

- Webex PTZ 4K Camera: A premium pan-tilt-zoom camera that provides superior video quality, powerful zoom capabilities, intelligent AI-based features, including PresenterTrack, and flexibility for optimized video collaboration experiences.
- Webex Precision 60 Camera: Enables users to provide superior video quality at any bandwidth.
   Designed specifically for video conferencing, the Precision 60 camera provides true-to-life quality for interaction and collaboration while featuring PresenterTrack.

With its powerful media engine, the Room Kit Pro lets you build the video collaboration room tailored to your specific requirements.



Figure 2. The Webex Room Kit Pro in large briefing room with dual screen setup and combined with the Webex PTZ 4K Camera

Cisco offers three integrator bundle options for the Webex Room Kit Pro:

#### 1. Room Kit Pro bundle



Figure 3. Webex Room Kit Pro integrator package with Codec Pro, Quad Camera and Webex Room Navigator

#### 2. Room Kit Pro PTZ 4K bundle







Figure 6. The Webex Codec Pro

## Bringing more intelligence to large and specialized rooms

The Webex Room Kit Pro is video innovation in a box, bringing more intelligence and usability to your largest and specialized collaboration rooms and spaces. While others are still struggling to insert advanced features such as speaker tracking, wireless sharing, and 4K content into their high-end products, Cisco is already proliferating these innovations to meeting rooms of all sizes in a cost-effective and simple way. With the Room Kit Pro, you can experience smarter meetings, enable smarter presentations, and create smarter room and device integrations. And when registered to the Webex cloud service, additional cloud-based functionalities are enabled that enhance the user experience and team workflow as well as further simplifying deployment.

- Smart meetings: Powerful, integrated cameras deliver intelligent view capabilities, such as automatic framing and speaker tracking; automatic noise suppression to reduce meeting disruptions
- **2. Smart presentations:** Supports up to three screens, dual content sources, wireless sharing, and 4K content make for great presentations
- 3. Smart integrations: People count for usage metrics and resource allocation; tight integrations with screens to enhance user interactions; APIs and macros allow meeting personalization
- 4. Registration flexibility: Built for both cloud and onpremises deployment, protecting your investment

## **Product features**

Table 1 summarizes the key features of the Webex Room Kit Pro.

Table 1. Feature summary

FEATURE SUMMARY	
Design features	<ul> <li>One of the most powerful and feature-rich codecs available, with the ultimate in video and audio quality</li> <li>UHD resolution to support large screen surfaces</li> <li>1.5 Rack Units (RU) high, rack mountable, with optional rack-mounting solution</li> <li>Professional-grade connectors using Euroblock/Phoenix</li> <li>Unmatched quality and flexibility</li> <li>Standards-compliant 1080p and 2160p solution, compatible with standards-based video without losing features</li> </ul>
Application features	<ul> <li>Supports Cisco Intelligent Proximity for content sharing to mobile devices and wireless sharing from Macs and PCs</li> <li>Supports switched conferencing for enhanced layouts and enabling video on multiple screens</li> <li>Easy control of room peripherals such as lights, room dividers, and curtains directly from the Webex Room Navigator through the API (requires external thirdparty control system processor)</li> <li>Limitless integration possibilities</li> <li>Participate in Webex whiteboarding sessions from the Webex App; receive onscreen notification of shared whiteboard content (supported on cloud-registered devices)</li> <li>Embedded MultiSite with up to 5 participants</li> <li>6 simultaneous video inputs that can be combined individually on all 3 outputs</li> <li>Calls with HD video and UHD content</li> <li>Simplified join-meeting experience with One Button to Push (OBTP)</li> <li>Ideal for team-based collaboration, boardrooms, meeting rooms, and industry applications</li> </ul>
Performance features	<ul> <li>Optimal definition up to 1080p60</li> <li>Up to 15 Mbps total MultiSite bandwidth (6 Mbps in point-to-point calls)</li> <li>6 simultaneous video inputs - 3 4K and 3 Full HD</li> <li>Connect up to 8 microphones directly to the codec</li> <li>Full-duplex audio with high-quality stereo sound</li> <li>Full API</li> <li>Cisco Media Assure packet loss protection (Cisco ClearPath also supported)</li> </ul>

## **Product capabilities**

Table 2 lists the specifications for the Webex Room Kit Pro and select specifications for relevant cameras and peripherals where noted.

Table 2. Product specifications

SPECIFICATION	DESCRIPTION
Software compatibility	<ul> <li>Cisco Collaboration Endpoint (CE) Software Version 9.14.5 or later, or Webex RoomOS</li> </ul>
Default components in Room Kit Pro bundle	<ul> <li>Webex Codec Pro</li> <li>Webex Quad Camera</li> <li>Webex Room Navigator</li> <li>Wall mount for Quad Camera</li> </ul>
Dafault components in Room Kit Pro PTZ 4K integrator bundle	<ul> <li>Webex Codec Pro</li> <li>Webex PTZ 4K Camera</li> <li>Webex Room Navigator</li> </ul>
Optional hardware components	<ul> <li>Cisco Table Microphone (with Euroblock plug), Cisco Ceiling Microphone, wall mount for Codec Pro, rack mount for Codec Pro, various cables</li> </ul>
Bandwidth	Up to 6 Mbps point-to-point
Minimum bandwidth for resolution/frame rate	<ul> <li>720p30 from 768 kbps</li> <li>720p60 from 1152 kbps</li> <li>1080p30 from 1472 kbps</li> <li>1080p60 from 2560 kbps</li> </ul>
Firewall traversal	<ul> <li>Cisco Expressway™ technology H.460.18, H.460.19 firewall traversal</li> </ul>

SPECIFICATION	DESCRIPTION		
Video standards	<ul> <li>H.264, H.265, H.263 for TANDBERG MXP interop only (check Admin Guide)</li> </ul>		
Video inputs (6)	<ul> <li>2 HDMI inputs support formats up to maximum 1080p60</li> <li>3 HDMI inputs support formats up to maximum UHD (3840 x 2160)</li> <li>@ 30 fps including HD1080p60</li> <li>One 3G-SDI/HD-SDI input supports formats up to maximum 1080p60</li> <li>Extended Display Identification Data (EDID)</li> <li>Consumer Electronics Control (CEC) 2.0</li> </ul>		
Video outputs (3)	<ul> <li>2 HDMI outputs support formats up to 3840 x 2160@60 fps (4Kp60)</li> <li>1 HDMI output supports formats up to 3840 x 2160@30 fps (4Kp30)</li> <li>CEC 2.0</li> </ul>		
Encode and decode	<ul><li>Video stream: Full HD 1080p60</li><li>Content stream: 4K 2160p15</li></ul>		
Audio standards	<ul> <li>G.711, G.722, G.722.1, G.729AB, 64 kbps and 128 kbps MPEG4 AAC- LD mono and stereo, OPUS</li> </ul>		
Audio features	<ul> <li>High quality 20-kHz audio</li> <li>8 separate acoustic echo cancellers</li> <li>8-port audio mixer</li> <li>8 assignable equalizers</li> <li>Automatic Gain Control (AGC)</li> <li>Automatic noise reduction</li> <li>Active lip synchronization</li> </ul>		
Audio inputs	<ul> <li>8 microphones, 48V phantom powered, Euroblock connector, each with separate echo cancellers and noise reduction; all microphones can be set for balanced line level</li> <li>3 HDMI, digital: stereo PC/DVD input</li> <li>Bluetooth<sup>®</sup> - Not available on Non Radio Version*</li> </ul>		

SPECIFICATION	DESCRIPTION	
Audio outputs	<ul> <li>6 balanced line level outputs, Euroblock connector</li> <li>3 HDMI outputs</li> <li>HDMI input #1 supports Audio Return Channel (ARC) audio output to Quad Camera</li> <li>1 line out for subwoofer (Quad Camera)</li> <li>Bluetooth<sup>®</sup> - Not available on Non Radio Version*</li> </ul>	
Speakers (Quad Camera)	<ul> <li>High-quality speakers</li> <li>Frequency response 70 Hz to 20 kHz</li> <li>Max output level SPL 90 dB</li> </ul>	
Speaker tracking (Quad Camera, SpeakerTrack 60)	<ul> <li>Quad Camera offers 6-element microphone array for accurate speaker tracking</li> <li>Quad Camera can support Group Framing feature with 5x zoom capability</li> <li>SpeakerTrack 60 can support Closeup feature with 20x zoom capability</li> </ul>	
PresenterTrack (PTZ 4K Camera, Precision 60)	<ul> <li>AI-powered face and upper body detection capability</li> <li>Camera automatically follows the active presenter within a defined zone and helps ensure optimized view</li> </ul>	
Dual stream	<ul> <li>H.239 (H.323) dual stream</li> <li>BFCP Session Initiation Protocol (SIP) dual stream</li> <li>Supports resolutions up to 3840 x 2160p15 fps and 1080p60</li> </ul>	
Wireless sharing	<ul> <li>Webex clients (up to 3840 x 2160p5)</li> <li>Cisco Intelligent Proximity client (up to 1920 x 1080p5)</li> <li>Miracast (1080p30) - Not available on Non radio version*</li> </ul>	
Multipoint support	<ul> <li>5-way embedded SIP/H.323 conferencing capability with MultiSite option</li> </ul>	

SPECIFICATION	DESCRIPTION
MultiSite features (embedded multipoint) (optional upgrade)	<ul> <li>Adaptive SIP/H.323 MultiSite: <ul> <li>3-way resolution up to 1080p30 plus content up to 4Kp15</li> <li>4-way resolution up to 720p30 plus content up to 4Kp15</li> <li>5-way resolution up to 720p30 plus content up to 4Kp15</li> </ul> </li> <li>Full individual audio and video transcoding</li> <li>H.323, SIP, and VoIP in the same conference</li> <li>Support for presentation (H.239, BFCP) from any participant at resolutions up to 3840 x 2160p5</li> <li>Best impression (automatic continuous presence layouts)</li> <li>Encryption and dual stream from any site</li> </ul>
Protocols	<ul> <li>H.323</li> <li>SIP</li> <li>Webex</li> </ul>
Embedded encryption	<ul> <li>H.323 and SIP point-to-point</li> <li>Standards-based: H.235 v3 and Advanced Encryption Standard (AES)</li> <li>Automatic key generation and exchange</li> </ul>
IP network features	<ul> <li>DNS lookup for service configuration</li> <li>Differentiated Services (DiffServ) (Quality of Service [QoS])</li> <li>IP-adaptive bandwidth management (including flow control)</li> <li>Automatic gatekeeper discovery</li> <li>Dynamic playout and lip-sync buffering</li> <li>H.245 Dual-Tone Multifrequency (DTMF) tones in H.323</li> <li>DTMF tones in SIP, RFC 4733</li> <li>Date and time support using Network Time Protocol (NTP)</li> <li>Packet loss-based down speeding</li> <li>Uniform Resource Identifier (URI) dialing</li> <li>TCP/IP</li> <li>Dynamic Host Configuration Protocol (DHCP)</li> <li>802.1Q Virtual LAN</li> <li>802.1p QoS and class of service</li> </ul>

SPECIFICATION	DESCRIPTION
Call control	<ul> <li>Cisco Collaboration Cloud/Webex</li> <li>Cisco Unified Communications Manager (CUCM)         <ul> <li>Native registration CUCM</li> <li>Requires CUCM Version 10.5.2 or later with device pack for Room Kit Pro</li> </ul> </li> <li>Cisco TelePresence Video Communication Server (VCS)         <ul> <li>Native registration with VCS</li> </ul> </li> <li>Third-party H.323 gatekeepers and standards-based SIP proxies</li> </ul>
IPv6 network support	<ul> <li>Single call stack support for both H323 and SIP</li> <li>Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ</li> <li>Support for static IP address assignment, stateless auto-configuration, and DHCP v6</li> </ul>
Security features	<ul> <li>Management using HTTPS and SSH</li> <li>IP administration password</li> <li>Password to access administration features on Touch controller</li> <li>Disable IP services</li> <li>Network settings protection</li> </ul>
Certificate management	<ul> <li>Certificate Authority Proxy Function (CAPF) support for additional security</li> <li>Manufacturer-Installed Certificates (MIC)</li> <li>Locally Significant Certificates (LSC)</li> <li>X.509 Digital Certificates (DER encoded binary); both DER and Base-64 formats are acceptable for the client and server certificates; certificates with a key size of 1024, 2048, and 4096 are supported</li> </ul>

SPECIFICATION	DESCRIPTION
Network interfaces Codec Pro	<ul> <li>1 Ethernet (RJ-45) 10/100/1000 for LAN</li> <li>2 Ethernet (RJ-45) 10/100/1000 for direct pairing with camera (camera control)</li> <li>2 Ethernet (RJ-45) 10/100/1000 with PoE, 1 dedicated for direct pairing with Touch 10</li> <li>Wi-Fi 802.11a/b/g/n/ac 2.4 GHz and 5 GHz for LAN - not available in non-radio versions</li> <li>2x2 Multiple Input and Multiple Output (MIMO)</li> </ul>
	<b>Note:</b> Due to compliance regulations, it is required that 802.11d is enabled in the access point for the product to operate properly within 5725 MHz – 5875 MHz.
	Using a Wifi connection is a flexible option, however an Ethernet connection is always preferred for high performance.
Other interfaces	• 2x USB A port, USB-B, micro USB port, factory reset pinhole
Power supply (Quad Camera)	<ul> <li>100 to 240 VAC, 50/60 Hz, 12V DC input</li> <li>Standby 6W, average 20W, peak 70W</li> </ul>
Operating temperature and humidity	<ul> <li>0° to 40°C (32° to 104°F) ambient temperature</li> <li>10% to 90% Relative Humidity (RH)</li> </ul>
Storage and transport temperature	<ul> <li>-20° to 60°C (-4° to 140°F) at RH 10% to 90% (noncondensing)</li> </ul>

#### Table 2.Product specifications



#### Codec Pro:

- Width: 17.1 in. (43.6 cm)
- Height: 2.6 in. (6.6 cm)
- Depth: 9.1 in. (23.1 cm)
- Weight: 7.3 lb (3.3 kg)



Quad Camera:

- Width: 37.4 in. (95.0 cm)
- Height: 4.7 in. (12.0 cm)
- Depth: 4.0 in. (10.3 cm)
- Weight: 10.6 lb (4.8 kg)

Dimensions for other available cameras:

- PTZ 4K Camera:
  - Width: 6.3 in. (15.8 cm)
  - Height (at max tilt): 7.0 in. (17.7 cm)
  - Depth: 8.0 in. (20.0 cm)
  - Weight: 3.75 lb (1.7 kg)

#### **Table 2.**Product specifications

SPECIFICATION	DESCRIPTION
	<ul> <li>Precision 60 Camera:</li> <li>Length: 10.6 in. (26.8 cm)</li> <li>Height (at max. tilt): 7.1 in (18 cm)</li> <li>Depth: 6.4 in. (16.3 cm)</li> <li>Weight: 5.5 lb. (2.5 kg)</li> </ul>
	<ul> <li>SpeakerTrack 60 Camera:</li> <li>Length: 31.5 in. (80.0 cm)</li> <li>Height: 11.5 in. (29.2 cm)</li> <li>Depth: 8.3 in. (21.0 cm)</li> <li>Weight: 25.4 lb (11.5 kg)</li> </ul>

#### WEBEX QUAD CAMERA OVERVIEW

5K Ultra HD camera

Support up to 60 fps

15.1 MP image sensor

1/1.7 CMOS

5x digital zoom (3 tele-lenses each with 50° horizontal field of view)

f/2.0 aperture

83° horizontal field of view; 51.5° vertical field of view

Auto-framing (audio + face detect)

#### WEBEX PTZ 4K CAMERA OVERVIEW

- 1920 x 1080 at 60 fps/3840 x 2160 at 30 fps resolution
- Zoom 240x total
  - 20x optical zoom
  - 12x digital zoom
- Pan and tilt
  - Pan range: +/- 170 degrees
  - Tilt range: +/- 20 degrees
- Field of View (FoV)
  - Horizontal FoV: 70 degrees
- 1.0 m to infinity (wide) focus distance
- F-value: 2.0 3.8
- Camera control: Visca over IP (LAN port)
- Focus, white balance, and brightness: Manual or automatic
- Video interfaces
  - HDMI 2.0
- Power
  - 12V/3A
  - 100 to 120/200 to 240 VAC, 50/60 Hz
  - PoE+ (IEEE802.3at compatible)
  - Must be used with power supply FSP040-RHAN3, Phihong POE29U-1AT(PL) or Microsemi PD-9001GR/AT/AC

#### WEBEX PRECISION 60 CAMERA OVERVIEW

- 1920 x 1080 at 60 fps resolution
- Zoom
  - 10x optical zoom
  - 2x digital zoom
  - 20x total zoom
- Pan and tilt
  - Pan range: +/- 100 degrees
  - Tilt range: +/- 20 degrees
- Field of view (FoV)
  - Horizontal FoV: 80 degrees
  - Vertical FoV: 48.8 degrees

#### WEBEX PRECISION 60 CAMERA OVERVIEW

- 1.0 m to infinity (wide) focus distance
- F-value: 1.5
- Camera control: Ethernet
- · Focus, white balance, and brightness: Automatic or manual
- Video interfaces
  - HDMI 1.4
  - 3G-SDI
- Power
  - 12V/3A
  - 100-120/200-240VAC, 50/60 Hz

Network interfaces: One LAN/Ethernet (RJ-45) 10/100 Mbit

#### CISCO TELEPRESENCE SPEAKERTRACK 60 CAMERA OVERVIEW

- 1920 x 1080 at 60 frames per second (fps)
- Zoom 20x total
  - 10x optical zoom
  - 2x digital zoom
- Pan and tilt
  - Pan range: +/- 100 degrees
  - Tilt range: +/- 20 degrees
- Field of View (FoV)
  - Horizontal FoV: 80 degrees
  - Vertical FoV: 48.8 degrees
  - Tracking horizontal FoV: 80 degrees
- 1.0 m to infinity (wide) focus distance
- F-value: 1.5
- Camera control: Ethernet
- · Focus, white balance, and brightness: Manual or automatic
- Video interfaces
  - HDMI 1.4
- Power
  - 12V/6.5A
  - 100-120 or 200-240 VAC; 50 or 60 Hz

\* The Bluetooth<sup>®</sup> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Cisco Systems, Inc. is under license. Other trademarks and trade names are those of their respective owners.

## **Regulatory compliance**

- 1. Directive 2014/30/EU (EMC Directive) and Directive 2014/35/EU (Low-Voltage Directive) for the non-radio versions
- 2. Directive 2014/53/EU (Radio Equipment Directive) for the radio versions
- 3. Directive 2011/65/EU (RoHS)
- 4. Directive 2002/96/EU (WEEE)
- 5. NRTL approved (Product Safety)
- 6. FCC Listed (Radio Equipment)

## Standards

- 1. Radio: EN 300 328, EN 301 893, EN 300 440 (only for the radio versions)
- 2. EMC: EN 301 489-1 and -17 (only for the radio versions), EN 55032 Class A, EN 55024
- 3. Safety: EN 60950-1 (for radio and non-radio), EN 62479, EN 62311 (for the radio versions)
- 4. FCC CFR 47 Part 15B (EMC) Class A
- 5. FCC CFR 47 Part 15C (RF)
- 6. FCC CFR 47 Part 15E (RF)

Please check the Product Approval Status Database <a href="https://www.ciscofax.com/">https://www.ciscofax.com/</a> for approval documents per country.

## **Ordering information**

To place an order, please contact your local Cisco representative and refer to Table 3.

Table 3. Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Webex Room Kit Pro - GPL, including	CS-KITPRO-K9	_
Webex Codec Pro	CS-CODEC-PRO+	TTC6-13
<ul><li>Webex Quad Camera</li><li>Webex Room Navigator control unit</li></ul>	CS-QUADCAM+	TTC8-10
	CS-T10-TS+	TTC5-15
Webex Room Kit Pro with PTZ 4K	CS-KITPRO-PTZ4K-K9	_
Camera - GPL, including	CS-CODEC-PRO+	TTC6-13
<ul><li>Webex Codec Pro</li><li>Webex PTZ 4K Camera</li></ul>	CS-CAM-PTZ4K+	EVI-X200C
Webex Room Navigator control unit	CS-T10-TS+	TTC5-15

 Table 3.
 Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Webex Codec Pro - GPL, including	CS-CODEC-PRO-K9	TTC6-13
Webex Codec Pro	CS-CODEC-PRO+	TTC6-13
Webex Codec Pro, No Radio - GPL	CS-CODEC-PRO-NR-K9	TTC6-13
<ul> <li>Webex Codec Pro – No Radio</li> </ul>	CS-CODEC-PRO-NR+	TTC6-13
Webex Codec Pro - TAA compliant,	CS-CODEC-PRO-K9++	TTC6-13
including	CS-CODEC-PRO-NR++	TTC6-13
<ul> <li>Webex Codec Pro - TAA, No Radio, or</li> <li>Webex Codec Pro - TAA</li> </ul>	CS-CODEC-PRO++	TTC6-13
Webex Codec Pro, No Radio, nonencrypted – GPL	CS-CODEC-PRO-K7	TTC6-13
	CS-CODECPRO-NR-K7+	TTC6-13
<ul> <li>Webex Codec Pro – No Radio</li> </ul>		
Options		
Rack ears for Codec Pro	CS-CPRO-RACKEARS	_
Wall-mount kit for Codec Pro	CS-CPRO-WMK	_
Cisco Table Microphone with Euroblock connector	CS-MIC-TABLE-E	TTC5-14
Extension cable for Table Microphone	CAB-MIC-EXT-E	_

 Table 3.
 Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Cisco Ceiling Microphone	CTS-MIC-CLNG-G2	TTC5-13
Shielded cable for Ceiling Microphone (non-plenum rated)	CAB-ETHRSHLD-10M	_
8 m/26 ft HDMI 2.0 certified cable	CAB-PRES-2HDMI-GR	-
HDMI 2.0 cable 1.5 m/5 ft, gray	CAB-2HDMI-1.5M-GR	_
HDMI 2.0 cable 3 m/10 ft, gray	CAB-2HDMI-3M-GR	_
Ethernet cable 1.5 m/5 ft, gray	CAB-ETH-1.5M-GR	_
Ethernet cable 3 m/10 ft, gray	CAB-ETH-3M-GR	_
Ethernet cable 5 m/16.4 ft, gray	CAB-ETH-5M-GR	_
Software options – ordered separately		
Remote Monitoring	L-KIT-RM (L-TP-RM)	-
MultiSite (embedded multipoint)	L-KITPRO-MS	-
Spares		
Webex Codec Pro	CS-CODEC-PRO=	TTC6-13
Webex Codec Pro – No Radio No Crypto	CS-CODEC-PRO-NR-K7=	TTC6-13

 Table 3.
 Ordering information

PRODUCT NAME	PART NUMBER	COMPLIANCE MODEL NUMBER
Webex Quad Camera	CS-QUADCAM=	TTC8-10
Webex PTZ 4K Camera	CS-CAM-PTZ4K=	EVI-X200C
Webex Precision 60 Camera	CTS-CAM-P60=	TTC8-07

### Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of <u>Cisco's Corporate</u>. <u>Social Responsibility</u> (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

SUSTAINABILITY TOPIC	REFERENCE
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

### **Cisco Service and Support**

Cisco and our partners provide a broad portfolio of intelligent, personalized services and support that can help you realize the full value of your Cisco Collaboration investment by increasing business agility and network availability. Our portfolio of services helps you accelerate business innovation through a network-based collaboration platform that enables businesses to collaborate anywhere, at any time. For more information about these services, visit https://www.cisco.com/c/en/ us/solutions/collaboration/service-listing.html.

## **Cisco** Capital

## Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.



For more information Learn more about the <u>Webex Room Kit Pro</u>. Learn more about the <u>Webex Room Kit Pro PTZ 4K Integrator Bundle</u>. Download the <u>Webex App</u>.

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