Dodatek č. 1 ke kupní smlouvě a smlouvě o dílo ze dne 21.11.2022

Číslo objednatele: 2022/OŠEF/0042/DDIL
Číslo dodavatele: Z22/103

Městská část Praha 9
IČO: 00063894, DIČ: CZ00063894
se sídlem Sokolovská 14/324, 180 49 Praha 9
[redacted]

a

OMNILINK Services a.s.
IČO: 24298557, DIČ: CZ24298557
se sídlem V korytech 3155/23, Záběhlice, 106 00 Praha 10
zapsána v obchodním rejstříku vedeném u Městského soudu v Praze, oddíl B, vložka 18198
[redacted]

(společně také jako „**smluvní strany**")

uzavírají níže uvedeného dne, měsíce a roku v souladu s ust. § 2079 a násl. a § 2586 a násl. zákona č. 89/2012 Sb., občanského zákoníku, v platném znění (dále jen „občanský zákoník") tento **Dodatek č. 1 ke Kupní smlouvě a smlouvě o dílo ze dne 21.11.2022** (dále jen „Dodatek č.1 ke Smlouvě" a „Smlouva"):

Čl. I.
Předmět dodatku

1.1. Tento Dodatek č. 1 ke Smlouvě upravuje vymezení některých dílčích částí předmětu dodávky.

1.2. V místě dodání ZŠ Špitálská v polytechnické učebně vznikly požadavky

vyplývající z kontrolního dne konaného dne 20.12.2022 a uvedené v Zápisu z kontrolního dne, který je nedílnou Přílohou č.1 tohoto Dodatku č.1 ke Smlouvě. Změny se týkají úpravy rozměrů a počtu skříněk a přesunutí stolů včetně úpravy slaboproudé a silnoproudé elektroinstalace.

1.3. Dodavatel je v rámci realizace předmětu plnění nucen dodat v dílčích případech mírně odlišné výrobky, než je specifikováno ve Smlouvě. Důvodem je změna sortimentu na trhu, původně navržené výrobky již nelze objednat.

1.4. Dodavatel nově vymezené výrobky dodává s požadovanými parametry dle specifikace zadávací dokumentace a v plném souladu s ní.

1.5 Součástí tohoto Dodatku č.1 ke Smlouvě jsou jako nedílná a závazná Příloha č.3, jež se stává nedílnou a závaznou součástí Smlouvy, uvedeny jednotlivé změnové katalogové listy nově vymezených výrobků.

1.6 Hodnota změny plnění ze Smlouvy dle tohoto Dodatku č. 1 ke Smlouvě činí 1,66 % původní hodnoty závazku a s ohledem na objektivní nezbytnost změny a zachování celkové povahy veřejné zakázky je změnou nikoliv podstatnou ve smyslu ust. § 222 odst. 4 písm. a), písm. b) bod 1. zákona č. 134/2016 Sb., o zadávání veřejných zakázek, v platném znění.

Čl. II.
Cena rozšíření plnění smlouvy

2.1. Změnová cenová kalkulace je uvedena jako nedílná a závazná Příloha č.2 tohoto Dodatku č.1. ke Smlouvě a stává se nedílnou a závaznou součástí Smlouvy.

2.2. Celkové navýšení nákladů za požadované změny je 52.600,- Kč bez DPH, DPH 21 % je 11.046,- Kč, navýšení ceny celkem včetně DPH 21 % je 63.646,- Kč.

2.3. Celková cena plnění ze Smlouvy tak po započtení změn dle tohoto Dodatku č.1 ke Smlouvě celkově činí 3.225.000,- Kč bez DPH. Celková cena včetně DPH 21 % činí 3.902.250,-Kč.

Čl. III.
Závěrečná ujednání

3.1. Veškerá ujednání Smlouvy tímto Dodatkem č. 1 ke Smlouvě výslovně nezměněná, zůstávají nadále beze změny, v platnosti a účinnosti.

3.2. Tento Dodatek č. 1 ke Smlouvě je vyhotoven ve 4 vyhotoveních, kdy 3 vyhotovení obdrží objednatel a 1 vyhotovení zhotovitel, a tvoří nedílnou součást Smlouvy.

3.3. Smluvní strany prohlašují, že si Dodatek č. 1 ke Smlouvě přečetly a všem jeho ustanovením rozumí, že se vzájemně neuvedly v omyl a berou na vědomí, že v plném rozsahu nesou veškeré právní důsledky plynoucí z jimi uvedených údajů v tomto Dodatku č. 1 ke Smlouvě a dále prohlašují, že obsah tohoto Dodatku č. 1 ke Smlouvě je projevem jejich pravé a svobodné a omylu prosté vůle a nebyl sjednán v tísni, ani za jinak jednostranně nevýhodných podmínek a jeho uzavřením nedochází k neúměrnému zkrácení ani jedné ze Smluvních stran Dodatku č. 1 ke Smlouvě či není dán důvod pro jeho neplatnost. Na důkaz toho připojují Smluvní strany níže podpisy osob oprávněných je zastupovat.

3.4. Tento Dodatek č. 1 ke Smlouvě nabývá platnosti dnem jeho podpisu poslední smluvní stranou a účinnosti dnem jeho uveřejnění v registru smluv, které se zavazuje zajistit v zákonné lhůtě objednatel. Zhotovitel je s uveřejněním Dodatku č. 1 ke Smlouvě srozuměn.

3.5. Nedílnou součástí tohoto Dodatku č. 1 ke Smlouvě jsou přílohy č. 1 až 3.

- Příloha č.1 Zápis z kontrolního dne ze dne 20.12.2022
- Příloha č.2 Změnová cenová kalkulace – výkaz výměr
- Příloha č.3 Změnové katalogové listy a-h

a) Změnový katalogový list – Jazyková učebna, položka rozpočtu č. 3
b) Změnový katalogový list – Jazyková učebna, položka rozpočtu č. 7
c) Změnový katalogový list – Polytechnická učebna, položka rozpočtu č. 20 a 21
d) Změnový katalogový list – Polytechnická učebna, položka rozpočtu č. 23
e) Změnový katalogový list – Polytechnická učebna, položka rozpočtu č. 24
f) Změnový katalogový list – Polytechnická učebna II, položka rozpočtu č. 9, 10 a 16
g) Změnový katalogový list – Polytechnická učebna II, položka rozpočtu č. 12
h) Změnový katalogový list – Polytechnická učebna II, položka rozpočtu č. 13

V Praze dne ..... V Praze dne .....

[redacted]

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Zápis ze schůzky na ZŠ Špitálská

Projekt č.: 2022/OŠEF/0042/DDIL

Účastníci:

[redacted]

Datum schůzky: 20.12 2022, začátek 9:40

Obsah schůzky:

Dne 20.12 proběhla na ZŠ Špitálská v polytechnické učebně schůzka za účelem obhlídky místa plnění.

[redacted]

1. Na změnu velikosti skříněk a změnu způsobu zavírání.
2. Dále paní učitelka požaduje, nad rámec projektu, přesunutí stolů ve třídě tak, aby řada 1 a 3 a řada 4 a 5 byly proti sobě. Přesunutí stolů vyžaduje i přemístění rozvaděčů a elektroinstalace, které jsou nyní umístěny ve stolech.

Původní zadání na skříňky:

Za účelem uschování robotických stavebnic, tabletů a digitálních fotoaparátů budou v učebně umístěny **čtyři na míru vyrobené uzamykatelné závěsné skříně široké 160 cm, vysoké 80 cm** a hluboké 40 cm. Skříně budou uvnitř **vybaveny policí v polovině výšky**. Závěsné skříně budou vyrobeny z povrchově upravených dřevotřískových desek, přičemž povrchová úprava bude co nejpodobnější povrchové úpravě lavic (případně je možno zvolit jakoukoli povrchovou úpravu z rozsáhlého vzorníku).

Požadované změny na skříňky:

Za účelem uschování robotických stavebnic, tabletů a digitálních fotoaparátů bude v učebně umístěno osm na míru vyrobených uzamykatelných závěsných skříní širokých 80 cm, vysokých 100 cm a hlubokých 40 cm. Skříně budou uvnitř vybaveny dvěma policemi v 1/3 a ve 2/3 výšky. Závěsné skříně budou vyrobeny z povrchově upravených dřevotřískových desek, přičemž povrchová úprava bude co nejpodobnější povrchové úpravě lavic (případně je možno zvolit jakoukoli povrchovou úpravu z rozsáhlého vzorníku). Paní učitelka upřesnila požadavky na způsob uzavírání skříněk. Všechny skříňky požaduje vybavit zásuvnými a uzamykatelnými dveřmi.

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Návrh nového uspořádání skříněk:

Očekávané navýšení nákladů za změny skříněk: 24 000,- Kč bez DPH

Očekávané navýšení nákladů za úpravu elektroinstalace spojené s přestěhováním stolů: 28 600,- Kč bez DPH

Celkové navýšení nákladů za požadované změny: 52 600,- Kč bez DPH

[redacted]

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SOUPIS PRACÍ, DODÁVEK A SLUŽEB vč. VÝKAZU VÝMĚR - ZMĚNOVÝ LIST

Položka	Název	Popis oceněných položek v nabídce/SOD	Původní model	Popis změnové položky	Nový model	MJ	Množství celkem původní	Původní cena jednotková bez DPH	Původní cena celkem bez DPH	Množství celkem nové	Nová cena jednotková bez DPH	Nová cena celkem bez DPH	DPH 21%	Nová cena celkem včetně DPH 21%	Změna ceny bez DPH	DPH 21%	Změna ceny včetně DPH 21%
	Jazyková učebna	Koncové položky a nábytek		Koncové položky a nábytek													
		Technologické vybavení jazykové učebny		Technologické vybavení jazykové učebny													
3	HDMI přepínač	HDMI přepínač 3x1, podpora 4K / 60 Hz 4:2:0, přenos Dolby True HD, DTS HD Master Audio a 3D, HDCP kompatibilní, cena včetně instalace a dopravy	Digitus DS-48304	HDMI přepínač 3x1, podpora 4K / 60 Hz 4:2:0, přenos Dolby True HD, DTS HD Master Audio a 3D, HDCP kompatibilní, cena včetně instalace a dopravy	PremiumCord 4Kx2K@60Hz HDMI switch	kus	1	4 000,00 Kč	4 000,00 Kč	1	4 000,00 Kč	4 000,00 Kč	840,00 Kč	4 840,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
7	Náhlavní set	Náhlavní set sluchátka/mikrofon, aktivní systém potlačení hluku (noise-reduction), provedení z pružného polyetylénu (odolné hrubému zacházení), uzavřená stereofonní sluchátka, kondenzátorový mikrofon, polstrovaný a nastavitelný náhlavní most. Sluchátka: frekvenční rozsah 30 Hz - 20 kHz, mikrofon: frekvenční rozsah 100 Hz - 15 kHz, impedance < 2,2 kΩ, citlivost -47 dBV ± 3 dBV, čtyřpinový 3,5 mm jack konektor pro mikrofon a sluchátka, kabel min. 1 m, max 0,4 kg, cena včetně dopravy, instalace, nastavení	Cougar VM410	Náhlavní set sluchátka/mikrofon, aktivní systém potlačení hluku (noise-reduction), provedení z pružného polyetylénu (odolné hrubému zacházení), uzavřená stereofonní sluchátka, kondenzátorový mikrofon, polstrovaný a nastavitelný náhlavní most. Sluchátka: frekvenční rozsah 30 Hz - 20 kHz, mikrofon: frekvenční rozsah 100 Hz - 10 kHz, impedance < 2,2 kΩ, citlivost -42 dBV ± 3 dBV, čtyřpinový 3,5 mm jack konektor pro mikrofon a sluchátka, kabel min. 1 m, váha 0,283 kg, cena včetně dopravy, instalace, nastavení	Razer Kaira X RZ04-03970	kus	17	2 500,00 Kč	42 500,00 Kč	17	2 500,00 Kč	42 500,00 Kč	8 925,00 Kč	51 425,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
	Polytechnická učebna	Koncové položky a nábytek		Koncové položky a nábytek													
		Tvorba videa a animovaný film (16 žáků)		Tvorba videa a animovaný film (16 žáků)													
20	Učitelské PC	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 16300 (https://www.cpubenchmark.net), 16GB RAM, 500GB SSD, grafická karta se 2 GB RAM, Windows 10 Professional, monitor 27" QHD IPS, klávesnice, myš, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 7090 Dell 27 USB-C Monitor - P2720DC	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 19955 (https://www.cpubenchmark.net), 16GB RAM, 500GB SSD, grafická karta se 4 GB RAM, Windows 10 Professional, monitor 27" QHD IPS, klávesnice, myš, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 3000 Dell 27 USB-C Monitor - P2720DC	kus	1	33 000,00 Kč	33 000,00 Kč	1	33 000,00 Kč	33 000,00 Kč	6 930,00 Kč	39 930,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
21	PC	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 16300 (https://www.cpubenchmark.net), 8GB RAM, 250GB SSD, grafická karta se 2 GB RAM, Windows 10 Professional, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 7090	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 19955 (https://www.cpubenchmark.net), 16GB RAM, 500GB SSD, grafická karta se 4 GB RAM, Windows 10 Professional, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 3000	kus	16	25 000,00 Kč	400 000,00 Kč	16	25 000,00 Kč	400 000,00 Kč	84 000,00 Kč	484 000,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
23	Fotoaparát	Kompaktní fotoaparát, 20 Mpx CCD snímač, širokoúhlý objektiv s desetinásobným optickým zoomem, FHD video při 60 Hz, inteligentní IS stabilizace obrazu	Panasonic Lumix DMC-TZ100	Kompaktní fotoaparát, 20 Mpx CCD snímač, širokoúhlý objektiv s třicetinásobným optickým zoomem, FHD video při 60 Hz, nahrávání 4K video při 30 Hz, inteligentní IS stabilizace obrazu,	Panasonic Lumix DMC-TZ95D	kus	1	12 000,00 Kč	12 000,00 Kč	1	12 000,00 Kč	12 000,00 Kč	2 520,00 Kč	14 520,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
24	Tiskárna	Laserová tiskárna, maximální formát tisku/média: A4, skutečné rozlišení tiskárny (v DPI): 1200x1200, rozhraní tiskárny: USB, Síťové, rychlost tisku min. (A4 za minutu): 38, automatický oboustranný tisk (Duplex); standardní počet vstupních zásobníků: 3, barevný tisk, cena včetně instalace, konfigurace a oživení	HP Color LaserJet Enetrprise M553x	Laserová tiskárna, maximální formát tisku/média: A4, skutečné rozlišení tiskárny (v DPI): 3600x3600, rozhraní tiskárny: USB, Síťové, rychlost tisku min. (A4 za minutu): 38, automatický oboustranný tisk (Duplex); standardní počet vstupních zásobníků: 3, barevný tisk, cena včetně instalace, konfigurace a oživení	HP Color LaserJet Enetrprise M555x	kus	1	25 000,00 Kč	25 000,00 Kč	1	25 000,00 Kč	25 000,00 Kč	5 250,00 Kč	30 250,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
		Celkem ZŠ Na Balabence							**516 500,00 Kč**			**516 500,00 Kč**	**108 465,00 Kč**	**624 965,00 Kč**	**0,00 Kč**	**0,00 Kč**	**0,00 Kč**
	Polytechnika	Koncové položky a nábytek		Koncové položky a nábytek													
		Animovaný film (12 žáků)		Animovaný film (12 žáků)													
9	Učitelské PC	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 16300 (https://www.cpubenchmark.net), 16GB RAM, 500GB SSD, grafická karta se 2 GB RAM, Windows 10 Professional, monitor 27" QHD IPS, klávesnice, myš, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 7090 Dell 27 USB-C Monitor - P2720DC	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 19955 (https://www.cpubenchmark.net), 16GB RAM, 500GB SSD, grafická karta se 4 GB RAM, Windows 10 Professional, monitor 27" QHD IPS, klávesnice, myš, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 3000 Dell 27 USB-C Monitor - P2720DC	kus	1	33 000,00 Kč	33 000,00 Kč	1	33 000,00 Kč	33 000,00 Kč	6 930,00 Kč	39 930,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
10	PC	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 16300 (https://www.cpubenchmark.net), 8GB RAM, 250GB SSD, grafická karta se 2 GB RAM, Windows 10 Professional, monitor 27" QHD, klávesnice, myš, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 7090 Dell 27 USB-C Monitor - P2720DC	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 19955 (https://www.cpubenchmark.net), 16GB RAM, 500GB SSD, grafická karta se 4 GB RAM, Windows 10 Professional, monitor 27" QHD, klávesnice, myš, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 3000 Dell 27 USB-C Monitor - P2720DC	kus	12	33 000,00 Kč	396 000,00 Kč	12	33 000,00 Kč	396 000,00 Kč	83 160,00 Kč	479 160,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
12	Fotoaparát	Kompaktní fotoaparát, 20 Mpx CCD snímač, širokoúhlý objektiv s desetinásobným optickým zoomem, HD video, inteligentní IS stabilizace obrazu	Panasonic Lumix DMC-TZ100	Kompaktní fotoaparát, 20 Mpx CCD snímač, širokoúhlý objektiv s třicetinásobným optickým zoomem, FHD video při 60 Hz, nahrávání 4K video při 30 Hz, inteligentní IS stabilizace obrazu,	Panasonic Lumix DMC-TZ95D	kus	6	12 000,00 Kč	72 000,00 Kč	6	12 000,00 Kč	72 000,00 Kč	15 120,00 Kč	87 120,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
13	Tiskárna	Laserová tiskárna, maximální formát tisku/média: A4, skutečné rozlišení tiskárny (v DPI): 1200x1200, rozhraní tiskárny: USB, Síťové, rychlost tisku min. (A4 za minutu): 38, automatický oboustranný tisk (Duplex); standardní počet vstupních zásobníků: 3, barevný tisk, cena včetně instalace, konfigurace a oživení	HP Color LaserJet Enetrprise M553x	Laserová tiskárna, maximální formát tisku/média: A4, skutečné rozlišení tiskárny (v DPI): 3600x3600, rozhraní tiskárny: USB, Síťové, rychlost tisku min. (A4 za minutu): 38, automatický oboustranný tisk (Duplex); standardní počet vstupních zásobníků: 3, barevný tisk, cena včetně instalace, konfigurace a oživení	HP Color LaserJet Enetrprise M555x	kus	1	25 000,00 Kč	25 000,00 Kč	1	25 000,00 Kč	25 000,00 Kč	5 250,00 Kč	30 250,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
		CAD, 3D modelování (8 žáků)		CAD, 3D modelování (8 žáků)													
16	PC	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 16300 (https://www.cpubenchmark.net), 8GB RAM, 250GB SSD, grafická karta se 2 GB RAM, Windows 10 Professional, monitor 27" QHD, klávesnice, myš, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 7090 Dell 27 USB-C Monitor - P2720DC	PC ve skříni SFF v této minimální konfiguraci: CPU splňující benchmark test Passmark CPU minimálně na hodnotu 19955 (https://www.cpubenchmark.net), 16GB RAM, 500GB SSD, grafická karta se 4 GB RAM, Windows 10 Professional, monitor 27" QHD, klávesnice, myš, kabely, záruka 5 let, cena včetně instalace, konfigurace a oživení	DELL OPTIPLEX 3000 Dell 27 USB-C Monitor - P2720DC	kus	8	33 000,00 Kč	264 000,00 Kč	8	33 000,00 Kč	264 000,00 Kč	55 440,00 Kč	319 440,00 Kč	0,00 Kč	0,00 Kč	0,00 Kč
		Nábytek		Nábytek													

Položka	Název	Popis oceněných položek v nabídce/SOD	Původní model	Popis změnové položky	Nový model	MJ	Množství celkem původní	Původní cena jednotková bez DPH	Původní cena celkem bez DPH	Množství celkem nové	Nová cena jednotková bez DPH	Nová cena celkem bez DPH	DPH 21%	Nová cena celkem včetně DPH 21%	Změna ceny bez DPH	DPH 21%	Změna ceny včetně DPH 21%
19	Skříňka	Závěsná uzamykatelná skříňka na míru, materiál dřevotříska + lamino, výběr povrchové úpravy z rozsáhlého vzorníku, cena včetně montáže a zavěšení na stěnu Za účelem uschování robotických stavebnic, tabletů a digitálních fotoaparátů budou v učebně umístěny **čtyři** na míru vyrobené uzamykatelné závěsné skříně **široké 160 cm, vysoké 80 cm a hluboké 40 cm.** Skříně budou uvnitř vybaveny policí v polovině výšky. Závěsné skříně budou vyrobeny z povrchově upravených dřevotřískových desek, přičemž povrchová úprava bude co nejpodobnější povrchové úpravě lavic (případně je možno zvolit jakoukoli povrchovou úpravu z rozsáhlého vzorníku).	Zakázková výroba	Závěsná uzamykatelná skříňka na míru, materiál dřevotříska + lamino, výběr povrchové úpravy z rozsáhlého vzorníku, cena včetně montáže a zavěšení na stěnu Za účelem uschování robotických stavebnic, tabletů a digitálních fotoaparátů bude v učebně umístěno osm na míru vyrobených uzamykatelných závěsných skříní širokých 80 cm, vysokých 100 cm a hlubokých 40 cm. Skříně budou uvnitř vybaveny dvěma policemi v 1/3 a ve 2/3 výšky. Závěsné skříně budou vyrobeny z povrchově upravených dřevotřískových desek, přičemž povrchová úprava bude co nejpodobnější povrchové úpravě lavic. Všechny skříňky požaduje vybavit zásuvnými a uzamykatelnými dveřmi.	Zakázková výroba	kus	4	19 900,00 Kč	79 600,00 Kč	8	12 950,00 Kč	103 600,00 Kč	21 756,00 Kč	125 356,00 Kč	24 000,00 Kč	5 040,00 Kč	29 040,00 Kč
				Přemístění stolů, přemístění a úprava rozvaděčů a úprava elektronistalace v učebně ZŠ Špitálská.		kpl	0	0,00 Kč	0,00 Kč	1	28 600,00 Kč	28 600,00 Kč	6 006,00 Kč	34 606,00 Kč	28 600,00 Kč	6 006,00 Kč	34 606,00 Kč
		Celkem ZŠ Špitálská							**869 600,00 Kč**			**922 200,00 Kč**		**1 115 862,00 Kč**	**52 600,00 Kč**	**11 046,00 Kč**	**63 646,00 Kč**
		Celkem za změny v ZŠ Na balabence a ZŠ Špitálská							**1 386 100,00 Kč**			**1 438 700,00 Kč**		**1 740 827,00 Kč**	**52 600,00 Kč**	**11 046,00 Kč**	**63 646,00 Kč**

Jazyková učebna

Položka 3 rozpočtu – HDMI přepínač

PremiumCord 4Kx2K@60Hz HDMI switch 3:1 s dálkovým ovladačem

Popis produktu:

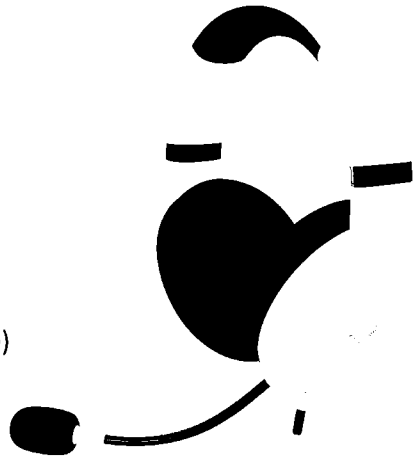
- 3 HDMI zařízení sdílí 1 HDMI výstupní zařízení (obrazovku).
- Výběr zařízení tlačítkem nebo dálkovým ovládáním.
- Na čelním panelu 1xLED indikace napájení, 3xLED indikace zvoleného portu
- - HDMI rolišení 480i, 480p, 720i, 720p,1080i,1080p, 4Kx2K@60Hz
- - Podpora modů VGA,SVGA,XGA,UXGA mode
- - Podporuje datový tok 18Gbps a frekvenci až 600MHz
- - Podporuje standard HDMI2.0, HDMI1.4A
- - Nejvyšší rozlišení 4Kx2K@60Hz , FULL HD 1080p/60Hz
- - 8bit,10bit,a 12bit barevná hloubka na kanál
- - Výběr vstupu tlačítkem/dálkovým ovládáním/ seriovým portem RS232
- - Plug-and-play, není třeba software.
- - HDCP kompatibilní
- - V sadě dálkové ovládání pro komfortní obsluhu
- - Podpora 3D obrazu
- - Přídavný adaptér 230V/5V v sadě

Jazyková učebna

Položka 7 rozpočtu – Náhlavní set

Razer Kaira X | RZ04-03970

Technická specifikace



Typ sluchátek

- Provedení: Okolo uší
- Konstrukce: Uzavřená
- Mikrofon: Ano
- Materiál Paměťová pěna

Připojení

- Typ připojení: 3,5mm Jack
- Vedení kabelu: Jednostranné (do jedné mušle)
- Odnímatelný kabel: Ne

Vlastnosti a funkce

- Funkce: Aktivní potlačení hluku (ANC)
- Další vlastnosti: Otočné mušle

Charakteristika sluchátek

- Frekvence: od 20 Hz do 20 000 Hz
- Citlivost: 108 dB/mW
- Impedance: 32 Ohm

Charakteristika mikrofonu

- Konstrukce mikrofonu: Integrovaný
- Funkce: Potlačení šumu
- Typ mikrofonu: Cardioid
- Frekvenční odezva: od 100 do 10,000 Hz
- Odstup signálu od šumu: ≥ 60 dB
- Citlivost: -42 ± 3 dB

Hmotnost

- Hmotnost: 283g

Počet sluchátek

- Počet sluchátek: 2×

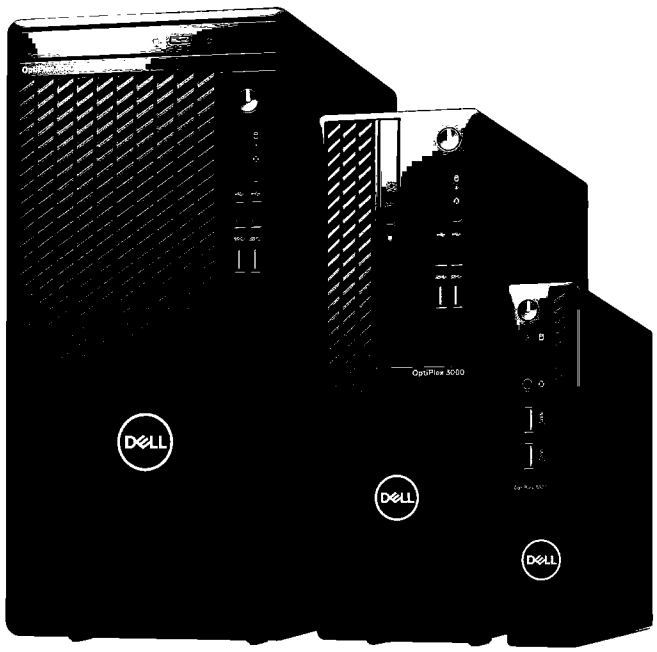
Polytechnická učebna

Položka 20 a 21 rozpočtu - počítač

OPTIPLEX

3000 Tower, Small Form Factor and Micro

Business desktops with essential performance and smart design



OPTIPLEX

3000

Technology that revolves around you

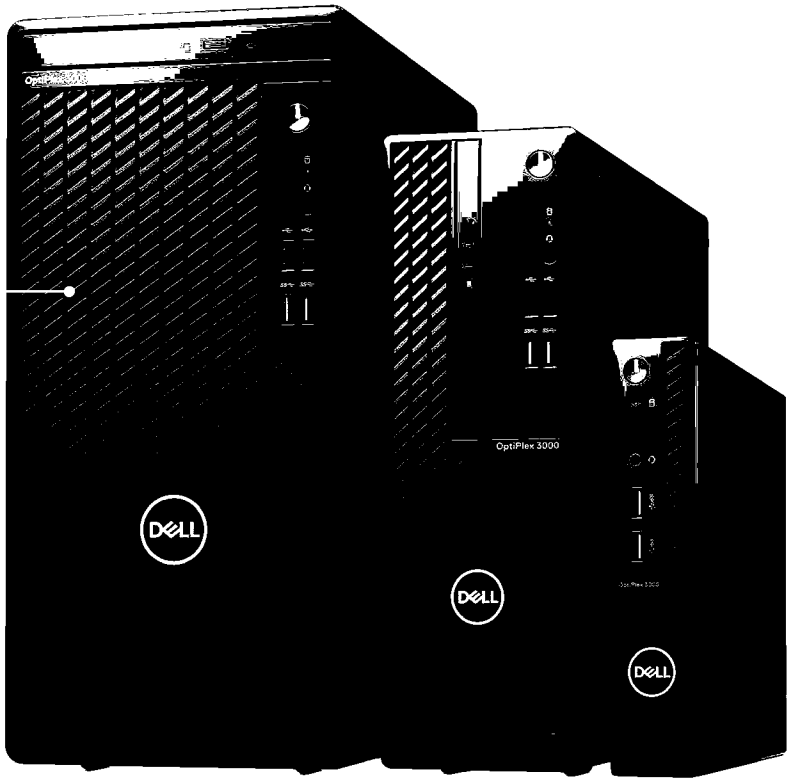
Sustainably built business desktops with essential performance and manageability options to drive maximum value.

Work confidently
OptiPlex is built secure with TPM 2.0, standard security lock slot, Padlock loop, Intrusion switch, SED hard drive, and secure accessories.

Power your success
Built with 12th gen Intel® Core™ processors up to 65W with new Hybrid Core technology (Celeron – i5 for tower and small form factor; Celeron – i7 for micro).

Ventilated front bezel
Optimizes air intake to keep your system cool and protected.

Wi-Fi6E option
Future-proof your IT with the industry's fastest speeds.



Memory that offers more
Take on multi-tasking with up to 64 GB DDR4 memory and achieve more.

Native support for up to 4 displays
Without the need for additional graphics card.

Enhanced visual effects
Optional DisplayPort supports up to 8K resolution displays for better color grading and motion stabilization.

epea GOLD

intel. CORE i9

Most sustainable OptiPlex yet
With up to 60% recycled materials[2] including 1st ocean-bound plastics[3]. EPEAT Gold and ENERGY STAR qualified on select configurations.

Our greatest breadth of custom accessories
including all new micro mounts.

OPTIPLEX

3000

Sustainability on OptiPlex

OptiPlex is a leading platform for sustainable innovation and utilizes the most recycled content of all Dell PCs with up to 60% recycled plastic and closed-loop materials in its design.

Design

1st

OptiPlex was the first Dell product made with recycled materials in 2007.[4]

Sustainable Materials

60%

OptiPlex desktops contain up to 60% recycled and closed-loop materials.

Packaging Innovation

87%

87% of Dell's packaging is made from recycled or renewable materials.

OPTIPLEX HAS

100+

EPEAT registered products*

EPEAT

40+

TCO certified configurations

TCO

8.0

ENERGY STAR® throughout the portfolio

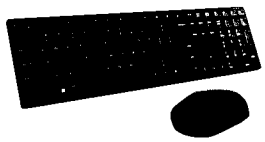
ENERGY STAR®

RECOMMENDED ACCESSORIES

PURPOSE-BUILT

Dell 24 Monitor - P2422H

Stay productive no matter where you work with this sleek 23.5" FHD monitor with ComfortView Plus.



Dell Pro Wireless Keyboard and Mouse – KM5221W

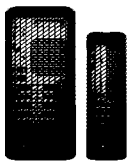
Enhance your everyday productivity with a quiet full-size keyboard and mouse combo that offers programmable shortcuts and up to 36 months battery life.

Dell Pro Stereo Headset – WH3022

Experience exceptional audio clarity with this Teams certified wired headset with a customized fit.

Dell Slim Conferencing Soundbar - SB522A

Experience clear conferencing and reduced background noise, with this intelligent MS Teams-certified soundbar.



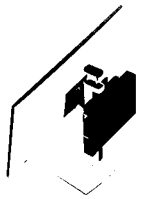
OptiPlex Tower and Small Form Factor Cable Covers

Thermally tested design offers an easy to install and attractive way to manage cables and secure ports.

CUSTOM MOUNTS

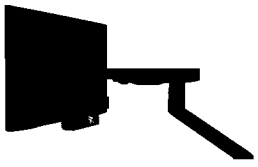
OptiPlex Small Form Factor All-in-One Stand – OSS21

Create a clean workspace for your Small Form Factor with integrated cable management and full range monitor adjustability.



OptiPlex Micro All-in-One Stand - MFS22

Adjustable, compact stand for your micro creates a clean, open workspace with minimal cables.

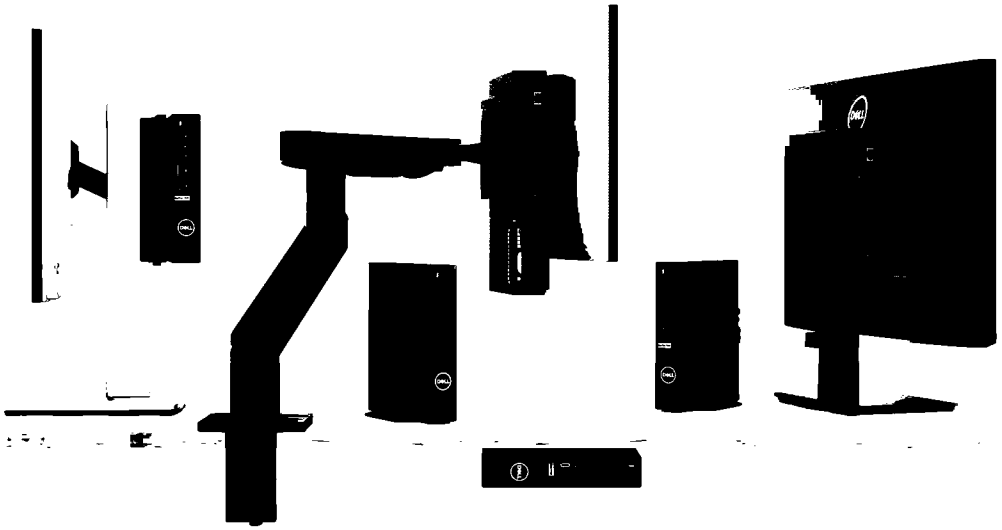


OptiPlex Micro Dual VESA Mount with Adapter Bracket

Versatile micro mounting solution for ideal use with Dell MSA20 or Dell MDA20 Monitor Arms.

OptiPlex Micro All-in-One VESA Mount for E-Series Monitors with Base Extender

Easily mount your micro to select Dell E-Series monitors.



OPTIPLEX

3000

FEATURE	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION
MODEL NUMBER	OptiPlex 3000 Tower	3000 Small Form Factor	3000 Micro
PROCESSOR OPTIONS[1]	Intel® Celeron® Gold G6900, 4MB cache, 2 cores, 4 threads, up to 3.40GHz, 46W Intel® Pentium® Gold G7400, 6MB cache, 2 cores, 4 threads, up to 3.70GHz, 46W 12th Generation Intel® Core™ i3-12100, 12MB cache, 4 cores, 8 threads, 3.30GHz to 4.30GHz, 60W 12th Generation Intel® Core™ i3-12300, 12MB cache, 4 cores, 8 threads, 3.50GHz to 4.40GHz, 60W 12th Generation Intel® Core™ i5-12400, 18MB cache, 6 cores, 12 threads, 2.50GHz to 4.40GHz, 65W 12th Generation Intel® Core™ i5-12500, 18MB cache, 6 cores, 12 threads, 3.00GHz to 4.60GHz, 65W 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W	Intel® Pentium® Gold G7400, 6MB cache, 2 cores, 4 threads, up to 3.70GHz, 46W Intel® Celeron® Gold G6900, 4MB cache, 2 cores, up to 3.40GHz, 46W 12th Generation Intel® Core™ i3-12100, 12MB cache, 4 cores, 8 threads, 3.30GHz to 4.30GHz, 65W 12th Generation Intel® Core™ i3-12300, 12MB cache, 4 cores, 8 threads, 3.50GHz to 4.40GHz, 65W 12th Generation Intel® Core™ i5-12400, 18MB cache, 6 cores, 12 threads, 2.50GHz to 4.80GHz, 65W 12th Generation Intel® Core™ i5-12500, 18MB cache, 6 cores, 12 threads, 3.00GHz to 4.60GHz, 65W 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.40GHz, 65W	Intel® Pentium® G7400T, 6MB, 2 core, 4 threads, up to 3.10GHz, 35W Intel® Celeron® G6900T, 4MB, 2 cores, 2 threads, up to 2.80GHz, 35W 12th Generation Intel® Core™ i3-12100T, 12MB cache, 4 cores, 8 threads, 2.20GHz to 4.10GHz, 35W 12th Generation Intel® Core™ i3-12300T, 12MB cache, 4 cores, 8 threads, 2.30GHz to 4.20GHz, 35W 12th Generation Intel® Core™ i5-12400T, 18MB cache, 6 cores, 12 threads, 1.80GHz to 4.20GHz, 35W 12th Generation Intel® Core™ i5-12500T, 18MB cache, 6 cores, 12 threads, 2.00GHz to 4.40GHz, 35W 12th Generation Intel® Core™ i5-12600T, 18MB cache, 6 cores, 12 threads, 2.10GHz to 4.60GHz, 35W 12th Generation Intel® Core™ i7-12700T, 25MB cache, 12 cores, 20 threads, 1.40GHz to 4.70GHz, 35W
OPERATING SYSTEM[1]	Windows 11 Home, 64-bit Windows 11 Pro, 64-bit Windows 11 Downgrade (Windows 10 image) Windows 11 Pro National Education, 64-bit Windows 11 CMIT Government Edition, 64-bit (China only) Kylin Linux® Desktop version 10.1 (China only) Ubuntu® Linux® 20.04 LTS, 64-bit	Windows 11 Pro, 64-bit Windows 11 Downgrade (Windows 10 image) Windows 11 Pro National Education, 64-bit Windows 11 CMIT Government Edition, 64-bit (China only) Kylin Linux® Desktop version 10.1 (China only) Ubuntu® Linux® 20.04 LTS, 64-bit	Windows 11 Home, 64-bit Windows 11 Pro, 64-bit Windows 11 Downgrade (Windows 10 image) Windows 11 Pro Education, 64-bit Windows 11 CMIT Government Edition, 64-bit (China only) Kylin Linux® Desktop version 10.1 (China only) Ubuntu® Linux® 20.04 LTS, 64-bit
MEMORY OPTIONS[1,2,3]	4GB, 1 x 4GB, DDR4, 3200MHz, single-channel 8GB, 1 x 8GB, DDR4, 3200MHz, single-channel 8GB, 2 x 4GB, DDR4, 3200MHz, dual-channel 16GB, 1 x 16GB, DDR4, 3200MHz, single-channel 16GB, 2 x 8GB, DDR4, 3200MHz, dual-channel 32GB, 1 x 32GB, DDR4, 3200MHz, single-channel 32GB, 2 x 16GB, DDR4, 3200MHz, dual-channel 64GB, 2 x 32GB, DDR4, 3200MHz, dual-channel	4GB, 1 x 4GB, DDR4, 3200MHz, single-channel 8GB, 1 x 8GB, DDR4, 3200MHz, single-channel 8GB, 2 x 4GB, DDR4, 3200MHz, dual-channel 16GB, 1 x 16GB, DDR4, 3200MHz, single-channel 16GB, 2 x 8GB, DDR4, 3200MHz, dual-channel 32GB, 1 x 32GB, DDR4, 3200MHz, single-channel 32GB, 2 x 16GB, DDR4, 3200MHz, dual-channel 64GB, 2 x 32GB, DDR4, 3200MHz, dual-channel	4GB, 1 x 4GB, DDR4, 3200MHz, single-channel 8GB, 1 x 8GB, DDR4, 3200MHz, single-channel 8GB, 2 x 4GB, DDR4, 3200MHz, dual-channel 16GB, 1 x 16GB, DDR4, 3200MHz, single-channel 16GB, 2 x 8GB, DDR4, 3200MHz, dual-channel 32GB, 1 x 32GB, DDR4, 3200MHz, single-channel 32GB, 2 x 16GB, DDR4, 3200MHz, dual-channel 64GB, 2 x 32GB, DDR4, 3200MHz, dual-channel
PRIMARY HARD DISK DRIVES[1,5]	2.5-inch, 1TB, 5400RPM, SATA, HDD 2.5-inch, 2TB, 5400RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD 2.5-inch, 1TB, 7200RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD, Self-Encrypting, Opal 2.0, FIPS 3.5-inch, 1TB, 7200RPM, SATA, HDD 3.5-inch, 2TB, 7200RPM, SATA, HDD 3.5-inch, 4TB, 5400RPM, SATA, HDD M.2 2230, 128GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 512GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 1TB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 256GB, PCIe NVMe Gen3 x4, SSD, Class 35, Self-Encrypting, Opal 2.0, FIPS M.2 2280, 256GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 1TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 2TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 256GB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting, Opal 2.0, FIPS M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting, Opal 2.0, FIPS M.2 2280, 1TB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting, Opal 2.0, FIPS M.2 2230, 512GB, PCIe NVMe Gen4 x4, SSD, Class 35 M.2 2280, 256GB, PCIe NVMe Gen4 x4, SSD, Class 35 M.2 2280, 256GB, PCIe NVMe Gen4 x4, SSD, Class 40 M.2 2280, 512GB, PCIe NVMe Gen4 x4, SSD, Class 40	3.5-inch, 4TB, 5400RPM, SATA, HDD 3.5-inch, 1TB, 7200RPM, SATA, HDD 3.5-inch, 2TB, 7200RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD, Self-Encrypting Opal 2.0, FIPS 2.5-inch, 500GB, 7200RPM, SATA, HDD 2.5-inch, 1TB, 7200RPM, SATA, HDD M.2 2230, 128GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 256GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 512GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 512GB, PCIe NVMe Gen4 x4, SSD, Class 35 M.2 2230, 256GB, PCIe NVMe Gen3 x4, SSD, Class 35, Self-Encrypting Opal 2.0, FIPS M.2 2280, 256GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 1TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 2TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 256GB, PCIe NVMe Gen4 x4, SSD, Class 40 M.2 2280, 512GB, PCIe NVMe Gen4 x4, SSD, Class 40 M.2 2280, 256GB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting Opal 2.0, FIPS M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting Opal 2.0, FIPS M.2 2280, 1TB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting Opal 2.0, FIPS	2.5-inch, 1TB, 5400RPM, SATA, HDD 2.5-inch, 2TB, 5400RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD 2.5-inch, 1TB, 7200RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD, Self-Encrypting, Opal 2.0, FIPS M.2 2230, 256GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 512GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 2TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 2TB, PCIe NVMe Gen3 x4, SSD, Class 40
GRAPHICS	Intel® UHD Graphics 710 Intel® UHD Graphics 730 Intel® UHD Graphics 770 AMD Radeon™ RX640, 4GB GDDR5 (optional) AMD Radeon™ 540, 1GB GDDR5 (optional) AMD Radeon™ 550, 2GB GDDR5 (optional)	Intel® UHD Graphics 710 Intel® UHD Graphics 730 Intel® UHD Graphics 770 AMD Radeon™ RX 640, 4GB GDDR5 (optional) AMD Radeon™ 540, 1GB GDDR5 (optional) AMD Radeon™ 550, 2GB GDDR5 (optional)	N/A
DISPLAY	Dell commercial displays including E series, Professional P series, UltraSharp, and collaboration monitors	Dell commercial displays including E series, Professional P series, UltraSharp, and Collaboration monitors	Dell commercial displays including E series, Professional P series, UltraSharp, and Collaboration monitors
CASE COLOUR	Dell Standard Black	Dell Standard Black	Dell Standard Black

OPTIPLEX

3000

FEATURE	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION
MODEL NUMBER	OptiPlex 3000 Tower	3000 Small Form Factor	3000 Micro
PRODUCTIVITY SOFTWARE[1]	Microsoft Office 30-day trial Microsoft Office Home and Business 2019 Microsoft Office Professional 2019 Dell Hybrid Client 1.5 (optional) Intel Unite® solution (optional)	Microsoft Office 30-day trial Microsoft Office Home and Business 2019 Microsoft Office Professional 2019 Dell Hybrid Client 1.5 (optional) Intel Unite® solution (optional)	Microsoft Office 30-day trial Microsoft Office Home and Business 2019 Microsoft Office Professional 2019 Dell Hybrid Client 1.5 (optional) Intel Unite® solution (optional)
SECURITY SOFTWARE	McAfee[5] Small Business Security 30-day free trial McAfee[5] Small Business Security 12-month subscription McAfee[5] Small Business Security 36-month subscription SafeGuard and Response, powered by VMware Carbon Black and Secureworks Next Generation Antivirus (NGAV) Endpoint Detection and Response (EDR) Threat Detection and Response (TDR) Managed Endpoint Detection and Response Incident Management Retainer Emergency Incident Response SafeData	McAfee[3] Small Business Security 30-day Free Trial McAfee[3] Small Business Security 12-month subscription McAfee[3] Small Business Security 36-month Subscription SafeGuard and Response, powered by VMware Carbon Black and Secureworks Next Generation Antivirus (NGAV) Endpoint Detection and Response (EDR) Threat Detection and Response (TDR) Managed Endpoint Detection and Response Incident Management Retainer Emergency Incident Response	McAfee[3] Small Business Security 30-day free trial McAfee[3] Small Business Security 12-month subscription McAfee[3] Small Business Security 36-month subscription Intel Guard Technologies & Secure Key: Software Guard (SGX), Boot Guard, BIOS Guard (Core CPU's only), OS Guard (Core CPU's only) and Secure Key (i5 or greater only) Intel Runtime BIOS Resilience (Copper Point) with attestation via Nifty Rock – Intel TXT Support of Absolute Persistent Module BIOS agent v2 OpenXT validation required SafeGuard and Response, powered by VMware Carbon Black and Secureworks Next Generation Antivirus (NGAV) Endpoint Detection and Response (EDR) Threat Detection and Response (TDR) Managed Endpoint Detection and Response Incident Management Retainer
WARRANTY[9,10]	1-year basic warranty with hardware service on-site service after remote diagnosis 2-year basic warranty extension 3-year basic warranty extension 4-year basic warranty extension 5-year basic warranty extension 1-year ProSupport with Next Business Day on-site service 2-year ProSupport with Next Business Day on-site service 3-year ProSupport with Next Business Day on-site service 4-year ProSupport with Next Business Day on-site service 5-year ProSupport with Next Business Day on-site service 1-year ProSupport Plus for Client with Next Business Day on-site service 2-year ProSupport Plus for Client with Next Business Day on-site service 3-year ProSupport Plus for Client with Next Business Day on-site service 4-year ProSupport Plus for Client with Next Business Day on-site service 5-year ProSupport Plus for Client with Next Business Day on-site service	1-year basic warranty with hardware service on-site service after remote diagnostics 2-year basic warranty extension 3-year basic warranty extension 4-year basic warranty extension 5-year basic warranty extension 1-year ProSupport with Next Business Day on-site service 2-year ProSupport with Next Business Day on-site service 3-year ProSupport with Next Business Day on-site service 4-year ProSupport with Next Business Day on-site service 5-year ProSupport with Next Business Day on-site service 1-year ProSupport Plus for Client with Next Business Day on-site service 2-year ProSupport Plus for Client with Next Business Day on-site service 3-year ProSupport Plus for Client with Next Business Day on-site service 4-year ProSupport Plus for Client with Next Business Day on-site service 5-year ProSupport Plus for Client with Next Business Day on-site service	1-year Basic Warranty with Hardware Service on-site service after remote diagnosis 2-year Basic Warranty Extension 3-year Basic Warranty Extension 4-year Basic Warranty Extension 5-year Basic Warranty Extension 1-year ProSupport with Next Business Day on-site service 2-year ProSupport with Next Business Day on-site service 3-year ProSupport with Next Business Day on-site service 4-year ProSupport with Next Business Day on-site service 5-year ProSupport with Next Business Day on-site service 1-year ProSupport Plus for Client with Next Business Day on-site service 2-year ProSupport Plus for Client with Next Business Day on-site service 3-year ProSupport Plus for Client with Next Business Day on-site service 4-year ProSupport Plus for Client with Next Business Day on-site service 5-year ProSupport Plus for Client with Next Business Day on-site service
ACCIDENTAL DAMAGE SERVICES	1-year Accidental Damage Service 2-year Accidental Damage Service 3-year Accidental Damage Service 4-year Accidental Damage Service 5-year Accidental Damage Service	1-year Accidental Damage Service 2-year Accidental Damage Service 3-year Accidental Damage Service 4-year Accidental Damage Service 5-year Accidental Damage Service	1-year Accidental Damage Service 2-year Accidental Damage Service 3-year Accidental Damage Service 4-year Accidental Damage Service 5-year Accidental Damage Service
KEYBOARD[1]	N/A	N/A	N/A
PORTS	**Front:** (2) USB 2.0 ports (2) USB 3.2 Gen 1 ports Universal audio jack **Rear:** (2) USB 3.2 Gen 1 ports (2) USB 2.0 ports with Smart Power On RJ45 Ethernet port DisplayPort 1.4 port HDMI 1.4b port Optional video port (HDMI 2.0b/DisplayPort 1.4/VGA) Serial/PS2 port (optional)	**Front:** (2) USB 2.0 ports (2) USB 3.2 Gen 1 ports Universal audio jack **Rear:** (2) USB 3.2 Gen 1 ports (2) USB 2.0 ports with Smart Power On RJ45 Ethernet port DisplayPort 1.4 port HDMI 1.4b port Optional video port (HDMI 2.0b/DisplayPort 1.4/VGA) Serial port (optional)	**Front:** (2) USB 3.2 Gen 1 ports Universal audio jack **Rear:** (2) USB 3.2 Gen 1 ports USB 2.0 port with Smart Power On USB 2.0 port RJ45 Ethernet port 10/100/1000Mbps DisplayPort 1.4a (HBR2) HDMI port Power adapter port Optional port (HDMI) 2.0b/Displayport 1.4a (HBR3)/ VGA/PS2/serial
OPTICAL DRIVE	8x DVD-ROM (optional) 8x DVD+/-RW (optional)	8x DVD RW, Slimline 9.5mm (optional) 8x DVD-ROM, Slimline 9.5mm (optional)	No optical drive
SLOTS	Kensington security-cable slot Padlock ring Full-height Gen 3 PCIe x16 slot (2) full-height Gen 3 PCIe x1 slots M.2 2230 slot for Wi-Fi and Bluetooth card M.2 2230/2280 slot for SSD (3) SATA slots for 3.5-inch/2.5-inch HDD/SSD, and optical Drive	Kensington security-cable slot Padlock ring Half-height Gen 4 PCIe x 16 slot Half-height Gen 3 PCIe x1 slot M.2 2230 slot for WiFi and Bluetooth card M.2 2230/2280 slot for SSD (2) SATA 3.0 slots for 3.5/2.5-inch HDD, and slim optical drive	Kengsignton security-cable slot Padlock ring M.2 2230 slot for Wi-Fi and Bluetooth card M.2 2230/2280 slot for SSD Gen3 x4 SATA slot for 2.5-inch HDD

OPTIPLEX

3000

FEATURE	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION
MODEL NUMBER	OptiPlex 3000 Tower	3000 Small Form Factor	3000 Micro
DIMENSIONS	**US:** Height: 12.77in. (324.30mm) Width: 6.06in. (154.00mm) Depth: 11.50in. (292.20mm) Weight (minimum): 11.41lbs. (5.17kg) Weight (maximum): 14.59lbs. (6.61kg) **Rest of world:** Height: 324.30mm (12.77in.) Width: 154.00mm (6.06in.) Depth: 292.20mm (11.50in.) Weight (minimum): 5.17kg (11.41lbs.) Weight (maximum): 6.61kg (14.59lbs.)	**US:** Height: 11.42in. (290.00mm) Width: 3.65in. (92.60mm) Depth: 11.53in. (292.80mm) Weight(minimum): 8.18lbs. (3.71kg) Weight(maximum): 11.09lbs. (5.03kg) **Rest of world:** Height: 290.00mm (11.42in.) Width: 92.60mm (3.65in.) Depth: 292.80mm (11.53in.) Weight(minimum): 3.71kg (8.18lbs.) Weight(maximum): 5.03kg (11.09lbs.)	**US:** Height: 7.16in. (182.00mm) Width: 1.42in. (36.00mm) Depth: 7.00in. (178.00mm) Weight: 1.43lbs. (0.65kg) **Rest of world:** Height: 182.00mm (7.16in.) Width: 36.00mm (1.42in.) Depth: 178.00mm (7.00in.) Weight: 0.65kg (1.43lbs.)
CAMERA	No camera	No camera	No camera
AUDIO & SPEAKERS[1]	Realtek Audio Controller, ALC3246-CG	Realtek Audio Controller, ALC3246-CG	Realtek Audio Controller, ALC3246-CG Internal speakers (optional)
WIRELESS	Intel® AX211, 2x2, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2 MediaTek® MT7921, 2x2, Wi-Fi 6 (WiFi 802.11ax), Bluetooth® 5.2 Intel® 9462, 1x1, Wi-Fi 5 (802.11ac), Bluetooth® 5.1	Intel® AX211, 2x2, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2 MediaTek® MT7921, 2x2, Wi-Fi 6 (WiFi 802.11ax), Bluetooth® 5.2 Intel® 9462, 1x1, Wi-Fi 5 (802.11ac), Bluetooth® 5.1	Intel® AX211, 2x2, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2 MediaTek® MT7921, 2x2, Wi-Fi 6 (WiFi 802.11ax), Bluetooth® 5.2 Intel® 9462, 1x1, Wi-Fi 5 (802.11ac), Bluetooth® 5.1
BATTERY OPTIONS	No battery	No battery	No battery
POWER OPTIONS	300W internal power supply unit (PSU), 92% Efficient, 80 Plus Platinum 240W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze 180W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze	300W internal power supply unit (PSU), 92% Efficient, 80 Plus Platinum 180W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze	90W AC adapter, 4.5mm barrel 65W AC adapter, 4.5mm barrel
REGULATORY[2,*2]	**Product Safety, EMC and Environmental Datasheets:** https://www.dell.com/learn/us/en/uscorp1/product-info-datasheets-safety-emc-environmental **Dell Regulatory Compliance Home Page:** https://www.dell.com/learn/us/en/uscorp1/regulatory-compliance?s=corp **Dell and the Environment:** https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-supply-chain/environment.htm	**Product Safety, EMC and Environmental Datasheets:** https://www.dell.com/learn/us/en/uscorp1/product-info-datasheets-safety-emc-environmental **Dell Regulatory Compliance Home Page:** https://www.dell.com/learn/us/en/uscorp1/regulatory-compliance?s=corp **Dell and the Environment:** https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-supply-chain/environment.htm	**Product Safety, EMC and Environmental Datasheets:** https://www.dell.com/learn/us/en/uscorp1/product-info-datasheets-safety-emc-environmental **Dell Regulatory Compliance Home Page:** https://www.dell.com/learn/us/en/uscorp1/regulatory-compliance?s=corp **Dell and the Environment:** https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-supply-chain/environment.htm
CHIPSET	Intel® B660	Intel® B660	Intel® B660
HARDWARE SECURITY	Kensington security-cable slot Padlock loop Chassis lock slot support Chassis intrusion switch Lockable cable covers SafeID including Trusted Platform Module (TPM) 2.0 Smart card keyboard (FIPS) Microsoft 10 Device Guard and Credential Guard (Enterprise SKU) Microsoft Windows Bitlocker Local hard drive data wipe through BIOS (Secure Erase) Self-encrypting storage drives (Opal, FIPS) Trusted Platform Module TPM 2.0 China TPM Intel Secure Boot Intel Authenticate SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls	Kensington security-cable slot Padlock ring Chasis lock slot support Chassis intrusion switch Lockable cable covers SafeID including Trusted Platform Module (TPM) 2.0 Smart card keyboard (FIPS) Microsoft 10 Device Guard and Credential Guard (Enterprise SKU) Microsoft Windows Bitlocker Local hard drive data wipe through BIOS (Secure Erase) Self-encrypting storage drives (Opal, FIPS) Trusted Platform Module TPM 2.0 China TPM Intel Secure Boot Intel Authenticate SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls	Kensington security-cable slot Padlock ring Chasis lock slot support Chassis intrusion switch Supply chain tamper alerts SafeID including Trusted Platform Module (TPM) 2.0 Smart card keyboard (FIPS) Microsoft 10 Device Guard and Credential Guard (Enterprise SKU) Microsoft Windows Bitlocker Local hard drive data wipe through BIOS (Secure Erase) Self-encrypting storage drives (Opal, FIPS) Trusted Platform Module TPM 2.0 China TPM Intel Secure Boot Intel Authenticate
RECOMMENDED ACCESSORIES	**Mouse:** Dell Pro Wireless Keyboard and Mouse - KM5221W **Audio and Speakers :** Dell Slim Soundbar - SB521A **Audio Headsets :** Dell Pro Stereo Headset - WH3022	**Mouse:** Dell Pro Wireless Keyboard and Mouse - KM5221W **Audio and Speakers :** Dell Slim Soundbar - SB521A **Audio Headsets :** Dell Pro Stereo Headset - WH3022	**Keyboard and Mouse :** Dell Pro Wireless Keyboard and Mouse - KM5221W **Audio Headsets :** Dell Pro Stereo Headset - WH3022 **Mounting Options :** OptiPlex Micro and Thin Client Vertical Stand OptiPlex Micro and Thin Client and Under-the-Desk VESA mount Wall Mount OptiPlex Micro and Thin Client PSU Adapter Sleeve OptiPlex Micro and Thin Client Pro 2 E Series Monitor Mount OptiPlex Micro and Thin Client Dual VESA Mount OptiPlex Micro and Thin Client All-in-One Stand (MFS22)

OPTIPLEX

3000

FEATURE	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION
MODEL NUMBER	OptiPlex 3000 Tower	3000 Small Form Factor	3000 Micro
SYSTEMS MANAGEMENT	Dell Client Command Suite for In-Band systems management	Dell Client Command Suite for In-Band systems management	Dell Client Command Suite for In-Band systems management
CONFIGURATION SERVICES	N/A	N/A	Factory image load BIOS customization Hardware customization Asset Tagging and Reporting
ADD-IN CARDS	N/A	N/A	N/A

Product Disclosures: pages 2-4

· EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
1 Available on Windows[3] 11.
2 Based on internal analysis, April 2021.
3 Based on internal analysis, April 2021, only applies to OptiPlex Micro.
4 Based on internal analysis, April 2021. 20% closed-loop recycled aluminum by weight in the 2TB 3.5" hard drive, optional on the OptiPlex 7090 Tower and 7090 Small Form Factor. .

Product Disclosures: pages 5-8

1 Offering may vary by region. Some items may be available after product introduction. For complete details, refer to the Technical Guidebook published on www.dell.com/support.
2 System Memory and Graphics: Significant system memory may be used to support graphics, depending on system memory size and other factors.
3 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.
4 Particular versions of Microsoft Windows may not support the full Bluetooth 4.2 functionality
5 Storage Option: GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
6 TPM is available in selected regions.
7 Computrace: Not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.lojackforlaptops.com.
8 Please refer to www.epeat.net for specific country registration rating and participation.
9 Limited Hardware Warranty: For copy of Ltd Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty.
10 on-site service after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty (www.dell.com/warranty) and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply.
11 Dell Services: Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions.
12 For complete listing of declarations and certifications, refer to the Dell Regulatory and Environmental Datasheet found in the Manuals section of Product Support information www.dell.com/support/home/us/en/19.

Polytechnická učebna

Položka 23 - fotoaparát

Popis produktu KODAK Astro Zoom AZ652

Konstrukce BSI snímače pomáhá **udržovat nízkou hladinu šumu a vysokou obrazovou čistotu** pro celkově **věrnější barvy a přesné vykreslení** v různých světelných podmínkách. Zobrazovací přednosti doplňuje působivý **objektiv s 65× optickým zoomem**, pokrývající rozsah ohniskové vzdálenosti ekvivalentní **24 – 1 560 mm**. Optická stabilizace minimalizuje chvění fotoaparátu pro ostřejší fotografování a natáčení z ruky.

Parametry fotoaparátu

Rozlišení 20,68 Mpx díky senzoru o velikosti 1/2,3" BSI CMOS generuje **snímky s vysokým množstvím detailů** a Full HD video 1080p/60 v kombinaci **s efektivní stabilizací vytváří působivá a plynulá videa**. Rychlost sériového snímání je zde 5 snímků za sekundu a rozsah citlivosti ISO 100 – 3 200 využijete pro práci také v horších světelných podmínkách. Konstrukce snímače BSI (zadní osvětlení) pomáhá **produkovat vyšší obrazovou čistotu** a nižší šum.

Ovládání a možnosti

Pro skládání a prohlížení snímků je k dispozici jak **elektronický hledáček, tak zadní 3,0" LCD** monitor s rozlišením 920 000 bodů. Display má kloubový mechanismus, který **lépe vyhovuje práci z vysokých i nízkých úhlů**. Kromě toho je k dispozici **vestavěná Wi-Fi** pro bezdrátový přenos snímků a dálkové ovládání fotoaparátu z připojeného smartphonu nebo tabletu. Kromě širokého rozsahu (objektiv s 65× optickým zoomem) je k dispozici také **4× digitální zoom** pro další rozšíření efektivního dosahu.

Klíčové funkce

- **Optická stabilizace** obrazu minimalizuje projevy chvění fotoaparátu
- K dispozici je jak **elektronický hledáček, tak zadní 3,0" LCD** monitor s 920 000 body
- **Vestavěné Wi-Fi** umožňuje bezdrátově přenášet snímky a vzdáleně ovládat fotoaparát
- Lze zaznamenat soubory obrázků **JPEG i RAW**
- **Režim 360° Panorama** umožní pořizovat rozsáhlé snímky pouhým pohybem fotoaparátu
- **AF 9-bodový** s detekcí obličeje pro upřednostnění tváří objektů při fotografování portrétů

- **Režimy AF**: detekce obličeje, úsměvu, mrknutí, zvířata (kočka a pes)
- **Vestavěný blesk** poskytuje dodatečné osvětlení při práci ve špatných světelných podmínkách
- **ISO 100 – 3 200** / 5 snímků za sekundu / kontinuální snímání
- Baterie: lithium-iontová LB-070

Obsah balení:

- Kodak Astro Zoom AZ652
- Baterie LB-070
- Popruh na krk
- Micro USB kabel
- USB adaptér
- Krytka objektivu se šnůrkou

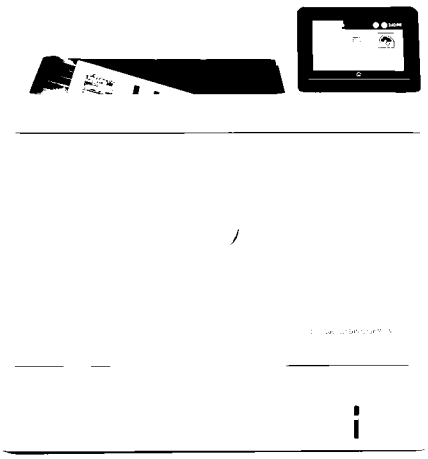
Barva	černá
Bezdrátové rozhraní	Wi-Fi
Druh paměti	SD
Druh snímače	CMOS
Formát snímku	RAW | JPEG
Hledáček	elektronický
Hmotnost (g)	508
LCD obrazovka	3,0"
Max. citlivost v ISO	3 200
Max. ohnisková vzdálenost	1 560
Min. citlivost v ISO	100
Min. ohnisková vzdálenost	24
Možnost použití předsádek / filtrů	ano
Napájení	Li-Ion
Optický zoom	65x

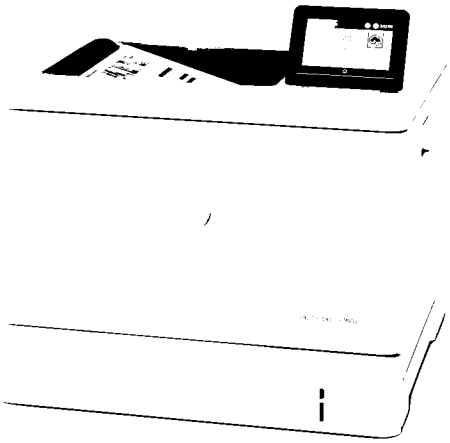
Režimy zaostřovacích polí	Detekce oka | Face detection | Jednotlivý AF bod | Sledování objektu
Rozlišení LCD (px)	922 000
Rozlišení v Mpx	20
Rozlišení videa	Full HD (1920x1080)
Snímková frekvence ve Full-HD videu	30p | 60p
Světelnost objektivu	2,9-6,7
Velikost snímače	1/2,3"
Zařazení kompaktu	Ultrazoom
Záznam videa	Full HD (1920 x 1080)

Data sheet

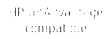
HP Color LaserJet Enterprise M555 Printer series

Future-proof performance for whatever business brings





Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future. Learn more at: http://www.hp.com/go/learnaboutsupplies



The world's most secure printing[1]

- The operating code (BIOS) is automatically checked during startup and repairs itself if compromised.
- Common Criteria certified[2] to continually monitor memory activity to detect and stop attacks in real time.
- Firmware is automatically checked during startup to determine if it's authentic code – digitally signed by HP.
- The printer's outgoing network connections are inspected to stop suspicious requests and thwart malware.

Easy to use, simple to manage

- HP FutureSmart firmware can be updated with the latest features[3] to optimise your investment for years to come.
- Centralise control of your printing environment with HP Web Jetadmin – and help build business efficiency.[4]
- Easily enable workflows across your fleet with a consistent user experience and intuitive, tablet-like icons.
- Expect consistent, high-quality results with technology that automatically adjusts print settings to paper type.

Enhanced productivity to empower workgroups

- Give workgroups what they need to succeed. Easily choose and deploy hundreds of HP and third-party solutions.
- Keep your office connected. Built-in Ethernet and Dual-band Wi-Fi®[5] connectivity let you share printing resources on a network.
- Easily manage jobs directly at the printer with a customisable 10.9 cm (4.3 inch) colour touchscreen.
- Spend less time loading paper with up to three input trays for an additional capacity of 2,300 sheets.

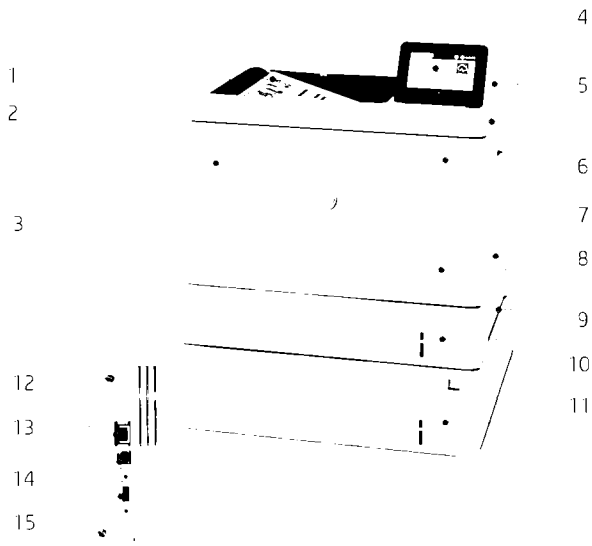
Sustainability is smart business

- Help save paper right out of the box. Two-sided (duplex) printing is set at default for automatic savings.[6]
- Help reduce wasted paper and toner by only printing jobs that are truly needed, using HP Roam for Business.[7]
- Help save energy intelligently by using only the power you need with HP Auto-On/Auto-Off Technology.[8]
- Help reduce your impact. Count on easy cartridge recycling at no charge with HP Planet Partners.[9]

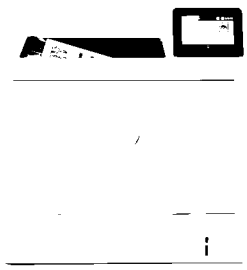
Product walkaround

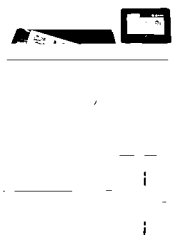
HP Color LaserJet Enterprise M555x shown

1. 250 sheet output bin
2. Front door for access to Original HP Toner cartridges with JetIntelligence
3. Automatic two-sided printing (default)
4. 10.9 cm (4.3-inch) colour graphics display with touchscreen
5. Hardware Integration Pocket (for connecting accessory and third-party devices)
6. Easy-access USB port
7. Convenient front on/off switch
8. Right door for clearing jams and access to the fuser
9. 100 sheet multipurpose tray 1
10. Lower right door for clearing jams
11. Two 550 sheet input trays for a 1,200 sheet total input capacity
12. Slot for cable-type security lock
13. Gigabit Ethernet network port
14. Hi-Speed USB 2.0 printing port
15. Hi-Speed USB 2.0 port for third-party devices



Series at a glance





Model	HP Color LaserJet Enterprise M555dn	HP Color LaserJet Enterprise M555x
Product number	7ZU78A	7ZU79A
Print speed (A4)	Up to 38 ppm	
Automatic two-sided printing (default)	Yes	
100 sheet multipurpose tray 1 and 550 sheet input tray 2	Yes	
550 sheet input tray 3	Optional (up to 3)	Yes (plus up to 2)
Input capacity (standard/maximum)	Up to 650/2,300 sheets	Up to 1,200/2,300 sheets
Printer stand	Optional	
Control panel	10.9 cm (4.3-inch) colour touchscreen	
Memory (standard/maximum)	1 GB / 2 GB	
HP High-Performance Secure Hard Disk	Optional	
Hardware Integration Pocket (HIP)	Yes	
Dual-band Wi-Fi with Bluetooth® Low Energy, Wi-Fi Direct®	Optional	Yes
ENERGY STAR® Certified, Blue Angel Certified	Yes	

Accessories, Supplies and Support

Supplies [7]	**B5L36A** HP Color LaserJet B5L36A 220V Fuser Kit (Average yield 150,000 pages)
	B5L37A HP Color LaserJet B5L37A Toner Collection Unit (Average yield 54,000 pages)
	W2120A HP 212A Black Original LaserJet Toner Cartridge (5,500 pages)
	W2120X HP 212X High Yield Black Original LaserJet Toner Cartridge (13,000 pages)
	W2121A HP 212A Cyan Original LaserJet Toner Cartridge (4,500 pages)
	W2121X HP 212X High Yield Cyan Original LaserJet Toner Cartridge (10,000 pages)
	W2122A HP 212A Yellow Original LaserJet Toner Cartridge (4,500 pages)
	W2122X HP 212X High Yield Yellow Original LaserJet Toner Cartridge (10,000 pages)
	W2123A HP 212A Magenta Original LaserJet Toner Cartridge (4,500 pages)
	W2123X HP 212X High Yield Magenta Original LaserJet Toner Cartridge (10,000 pages)
Accessories	**2MU47A** HP Accessibility Assistant
	2NR12A HP Removable Hard Drive Enclosure
	3JN69A HP Jetdirect 3100w BLE/NFC/Wireless Accessory
	5EL03A HP Secure Hard Disk Drive with FIPS Validation (TAA Compliant)
	8FP31A HP Jetdirect LAN Accessory
	B5L28A HP Internal USB Ports
	B5L29A HP High-Performance Secure Hard Disk
	B5L34A HP Color LaserJet 550-sheet Media Tray
	B5L51A HP Color LaserJet Printer Cabinet
	G6W84A HP 1 GB 90-pin DDR3 DIMM
	X3D03A HP Universal USB Proximity Card Reader
	Y7C05A HP HIP2 Keystroke Reader
Service and Support	**U8CG3E** HP 3 year Next Business Day for Color LaserJet M55x service **U8CH0E** HP 4 year Next Business Day for Color LaserJet M55x service **U8CH1E** HP 5 year Next Business Day for Color LaserJet M55x service **U8CJ4PE** HP 1 year Post Warranty Next Business Day for Color LaserJet M55x service **U8CJ7PE** HP 2 year Post Warranty Next Business Day for Color LaserJet M55x service **U9JT1E** HP Installation Service with Network Configuration for Personal Scanner and Printer (1 unit)

Technical specifications

Model	HP Color LaserJet Enterprise M555dn	HP Color LaserJet Enterprise M555x
Product number	7ZU78A	7ZU79A
Functions	Print	
Control panel	10.92 cm touchscreen with colour graphics	
Print		
Print technology	Laser	
Print speed[1]	**Black (A4, normal)**: Up to 38 ppm; **Colour (A4, normal)**: Up to 38 ppm; **Black (A4, duplex)**: Up to 38 ipm; **Colour (A4, duplex)**: Up to 38 ipm;	
First page out[2]	**Black (A4, ready)**: As fast as 6.7 sec; **Colour (A4, ready)**: As fast as 7.6 sec; **Black (A4, sleep)**: As fast as 9 sec; **Colour (A4, sleep)**: As fast as 9 sec;	
Print resolution	**Black (best)**: HP ImageREt 3600; **Colour (best)**: HP ImageREt 3600; **Technology**: HP ImageREt 3600, Pantone Calibrated;	
Monthly duty cycle	Up to 80,000 pages A4; **Recommended monthly page volume**: 2,000 to 10,000	
Printer smart software features	Apple AirPrint™, Mopria-certified, HP ePrint, ROAM optional for easy printing, Open Extensibility Platform, FutureSmart Firmware, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, Hardware Integration Pocket, Intuitive 4.3" touchscreen control panel, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs	Apple AirPrint™, Mopria-certified, HP ePrint, ROAM capable for easy printing, Wi-Fi Direct Printing, Bluetooth® Low-Energy, Open Extensibility Platform, FutureSmart Firmware, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, Hardware Integration Pocket, Intuitive 10.92 cm touchscreen control panel, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs
Standard print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7)	
Fonts and typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono WorldType); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); Additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at http://www.hp.com/go/laserjetfonts	
Print area	**Print margins** Top: 2 mm absolute/5 mm assured image, Bottom: 2 mm absolute/5 mm assured image, Left: 2 mm absolute/5 mm assured image, Right: 2 mm absolute/5 mm assured image; Maximum print area: 212 x 352 mm	
Duplex printing	Automatic (standard)	

Model	HP Color LaserJet Enterprise M555dn	HP Color LaserJet Enterprise M555x
Product number	7ZU78A	7ZU79A
Fax		
Fax specifications		**Telecom compliance**: Telecom Wireless: RSS-Gen Issue 4/RSS 247 Issue 1, 2015 & RSS 102 Issue 5, 2015; EN 301 489-1 V2.2.3; EN 301 489-17 V3.2.2; RSS 247 Issue 1, 2015 & RSS 102 Issue 5, 2015; EN 300 328 V2.1.1; EN 301 893 V2.1.1. Other Telecom approvals as required by individual countries.
Processor speed	1.2 GHz	
Connectivity		
Standard	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network; Hardware Integration Pocket	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network; 1 Wireless 802.11b/g/n / 2.4 / 5 GHZ Wi-Fi radio; Hardware Integration Pocket
Optional	HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A; HP Jetdirect LAN Accessory 8FP31A	HP Jetdirect LAN Accessory 8FP31A
Wireless	Optional, enabled with purchase of a wireless hardware accessory. Dual-band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A	Embedded Dual-band Station and Wi-Fi Direct Functionality
Mobile printing capability[3]	HP ePrint; Apple AirPrint™; NFC touch-to-print (optional); Mopria™ Certified; ROAM optional for easy printing	HP ePrint; Apple AirPrint™; NFC touch-to-print (optional); Mopria™ Certified; ROAM capable for easy printing; Wi-Fi® Direct printing
Supported network protocols	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP 2.0, Apple AirPrint™, HP ePrint, FTP Print, Google Cloud Print; DISCOVERY: SLP, Bonjour, Web Services Discovery; IP CONFIG: IPv4 (BootP, DHCP, AutoIP, Manual, TFTP Config, ARP-Ping), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPs, Telnet, TFTP Config, FTP FW Download, Syslog; Security: SNMPv3, SSL Cert Management, Firewall, ACL, 802.1x	
Network capabilities	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networking (optional).	Yes, via HP Jetdirect Ethernet embedded print server (standard) supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec (standard); 802.11b/g/n / 2.4 / 5 GHZ Wi-Fi radio wireless networking (standard)
Hard disk	Optional, 500 GB (with accessory B5L29A)	
Memory	**Standard**: 1 GB; **Maximum**: 2 GB	

Model	HP Color LaserJet Enterprise M555dn	HP Color LaserJet Enterprise M555x
Product number	7ZU78A	7ZU79A
Media handling		
Number of paper trays	**Standard**: 2 ; **Maximum**: 5	
Media types	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy) colour transparency, labels, envelope, preprinted, prepunched, coloured, rough, opaque film, user-defined	
Media size	**Custom (metric)**: Tray 1: 76 x 127 to 216 x 356 mm; Tray 2: 102 x 148 to 216 x 297 mm; Optional Trays 3+: 102 x 148 to 216 x 356 mm ; **Supported (metric)**: Tray 1: A4, RA4, A5, B5 (JIS), B6 (JIS), 10 x 15 cm, A6, 16K, envelopes (B5, C5 ISO, C6, DL ISO); Custom: 76 x 127 to 216 x 356 mm; Tray 2: A4, A5, B5 (JIS), B6 (JIS), 10 x 15 cm, A6, 16K; Custom: 102 x 148 to 216 x 297 mm; Optional Trays 3+: A4, RA4, A5, B5 (JIS), 16K; Custom: 102 x 148 to 216 x 356 mm	
Media handling	**Standard input**: 100 sheet multipurpose tray, 550 sheet input tray 2 **Standard output**: 250 sheet output bin **Optional input**: 550 sheet media input tray 3, 550 sheet media input tray 4, 550 sheet media input tray 5	
Media weight	Tray 1: 60 to 220 g/m² (plain paper), 105 to 220 g/m² (glossy paper); Tray 2: 60 to 220 g/m² (plain paper), 105 to 220 g/m² (glossy paper); Optional Trays 3+: 60 to 220 g/m² (plain paper), 105 to 220 g/m² (glossy paper); Automatic Duplexer: 60 to 163 g/m²;	
Input capacity	**Tray 1**: Sheets (75 g/m² paper): 100; Transparencies, cardstock (163 g/m²): 50; Cardstock (216 g/m²): 30; Envelopes: 10 **Tray 2**: Sheets (75 g/m² paper): 550; Labels, cardstock (163 g/m²), Transparencies: 200 **Tray 3**: Sheets (75 g/m² paper): 550; Labels, cardstock (163 g/m²), Transparencies: 200 **Maximum**: Up to 2,300 sheets	
Output capacity	**Standard**: Up to 250 sheets Envelopes: Up to 10 envelopes Transparencies: Up to 100 sheets **Maximum**: Up to 250 sheets	
Compatible operating systems	Windows Client OS (32/64-bit): Win10, Win8.1, Win7 Ultimate, Mobile OS-, iOS, Android; Mac: Apple® macOS High Sierra v10.13, Apple® macOS Mojave v10.14, Apple® macOS Catalina v10.15; Discrete PCL6 Printer Driver: for more information on the supported operating systems go to http://www.support.hp.com, Enter your product name and search, Click on User Guides and enter your product name and search for User Guide, Search for your (Product Name) - User Guide, Search for the Supported Operating Systems section; UPD PCL6 / PS Printer Drivers, Supported Operating systems: for more information on the supported operating systems see http://www.hp.com/go/upd	
Compatible network operating systems	Windows Server 2008 R2 64-bit, Windows Server 2008 R2 64-bit (SP1), Windows Server 2012 64-bit, Windows Server 2012 R2 64-bit, Windows Server 2016 64-bit, Windows Server 2019 64-bit, Citrix Server 6.5, Citrix XenApp & XenDesktop 7.6, Novell iPrint server, Citrix Ready Kit Certification - Up to Citrix Server 7.18 for more information see http://www.citrixready.citrix.com; Linux: For more information see http://developers.hp.com/hp-linux-imaging-and-printing; Unix: For more information see http://www.hp.com/go/unixmodelscripts; UPD PCL6 / PS Printer Drivers: For more information on the supported operating systems go to http://www.support.hp.com, Enter your product name and search, Click on User Guides and enter your product name and search for User Guide, Search for your (Product Name) - User Guide, Search for the Supported Operating Systems section; UPD PCL6 / PS Printer Drivers, Supported Operating systems: for more information on the supported operating systems see http://www.hp.com/go/upd	
Minimum system requirements	**Windows**: 2 GB available hard disk space, Internet connection, or USB port, Internet browser. For additional OS hardware requirements see http://www.microsoft.com; **Mac**: 2 GB available hard disk space, Internet connection, or USB port, Internet browser. For additional OS hardware requirements see http://www.apple.com	
Software included	No software solutions are included in the Box, only on http://www.hp.com, http://www.123.hp.com	
Security management	Identity management: Kerberos authentication; LDAP authentication; 1000 user PIN codes; optional HP and 3rd party advanced authentication solutions (e.g.; badge readers); Network: IPsec/firewall with Certificate; Pre-Shared Key; and Kerberos authentication; Supports WJA-10 IPsec configuration Plug-in; 802.1X authentication (EAP-PEAP; EAP-TLS); SNMPv3; HTTPS; Certificates; Access Control List; Data: Storage Encryption; Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft); Secure Erase; SSL/TLS (HTTPS); Encrypted Credentials; Device: Security lock slot; USB port disablement; Hardware Integration Pocket for security solutions; Intrusion Detection with Red Balloon Security Technology (Constant in-device monitoring for attacks); HP Sure Start Secure Boot (BIOS Integrity Checking with self-healing capability); Whitelisting (loads only known good code DLLs, EXEs, etc.); Embedded Trusted Platform Module (TPM); HP Connection Inspector; Security management: Compatible with HP JetAdvantage Security Manager, Device Security Syslog Messages processed and accessible in Arcsight and Splunk SIEMs	
Printer management	HP Printer Assistant, HP Device Toolbox, HP Web JetAdmin Software, HP JetAdvantage Security Manager, HP SNMP Proxy Agent, HP WS Pro Proxy Agent, Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator)	
Dimensions and weight		
Printer dimensions (W x D x H)	**Minimum** 458 x 479 x 380 mm; **Maximum**: 820 x 785 x 455 mm;	**Minimum** 458 x 479 x 513 mm; **Maximum**: 820 x 785 x 588 mm;
Package dimensions (W x D x H)	600 x 500 x 598 mm	750 x 600 x 598 mm
Printer weight	27.5 kg	33.4 kg
Package weight	31.3 kg	39.6 kg
Operating environment	**Temperature**: 10 to 32°C; **Humidity**: 30 to 70% RH	
Storage conditions	**Temperature**: -20 to 40°C;	
Acoustics	**Acoustic power emissions**: 6.3 B(A) (Printing at 38 ppm); **Acoustic pressure emissions**: 51 dB(A) (Printing at 38 ppm)	
Power	**Requirements**: Input voltage: 220 to 240 VAC, 50 Hz (not dual voltage, product varies by part number with # Option code identifier); **Consumption**: 622 watts (Printing), 31.3 watts (Ready), 2.4 watts (Sleep), 0.06 watts (Auto-Off/Manual On), 0.69 watts (Auto-Off/Auto-On/Wake on LAN); **Typical Electricity Consumption (TEC)**[4]: Blue Angel: 1.368 kWh/Week; Energy Star 3.0: 0.464 kWh/Week; **Power supply type**: Internal (built-in) 220V Power Supply;	
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology	
Certifications[5]	CISPR 22:2008 (International) Class A, CISPR 32:2012 (International)/ EN 55032:2012, CISPR 35:2016 (International)/ EN 55035:2017, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013. Other EMC approvals as required by individual countries. Blue Angel; CECP; ENERGY STAR® certified; EPEAT® Silver	CISPR 22:2008 (International) Class A, CISPR 32:2012 (International)/ EN 55032:2012, CISPR 35:2016 (International)/ EN 55035:2017, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013. Other EMC approvals as required by individual countries. Blue Angel; CECP; ENERGY STAR® qualified; EPEAT® Silver
Blue Angel compliant[6]	Yes, Blue Angel DE-UZ 205—only ensured when using Original HP supplies	
Country of origin	Made in Japan	
What's in the box[7]	HP Color LaserJet Enterprise M555dn Printer; Four preinstalled HP LaserJet toner cartridges (yield 5,500 pages black, 3,500 pages cyan, magenta, yellow composite); Toner collection unit; In-box documentation; Power Cord	HP Color LaserJet Enterprise M555x Printer; Four preinstalled HP LaserJet toner cartridges (yield 5,500 pages black, 3,500 pages cyan, magenta, yellow composite); Toner collection unit; In-box documentation; Power Cord
Warranty	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://www.hp.com/support to learn about HP award winning service and support options in your region.	

Footnotes

[1] HP's most advanced embedded security features are available on HP Managed and Enterprise devices with HP FutureSmart firmware 4.5 or above. Claim based on HP review of 2019 published features of competitive in-class printers. Only HP offers a combination of security features to automatically detect, stop, and recover from attacks with a self-healing reboot, in alignment with NIST SP 800-193 guidelines for device cyber resiliency. For a list of compatible products, visit http://www.hp.com/go/PrintersThatProtect. For more information, visit http://www.hp.com/go/PrinterSecurityClaims.
[2] Third-party certification based on Common Criteria Information Technology Security Evaluation ISO/IEC 15408 Standard requirements as of May 2019. Certification applicable to HP Enterprise and Managed devices running HP FutureSmart Firmware version 4.5.1 and later. For more information: https://www.commoncriteriaportal.org/files/epfiles/Certification%20Report%20-%20HP%20Intrusion%20Detection.pdf.
[3] Some features enabled by future HP FutureSmart firmware upgrades may not be available on older devices, if for example, physical product characteristics limit the functionality of the new feature.
[4] HP Web Jetadmin is free and available for download at http://www.hp.com/go/webjetadmin.
[5] Mobile device needs to be connected directly to the signal of a Wi-Fi Direct® supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®. For details, see http://www.hp.com/go/mobileprinting.
[6] Dependent upon country setup specifications.
[7] To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Subscription may be required. For more information, visit http://www.hp.com/go/roam.
[8] HP Auto-On/Auto-Off Technology capabilities subject to printer and settings. May require a firmware upgrade.
[9] Program availability varies. For more information, visit http://www.hp.com/recycle.

Technical specifications disclaimers

[1] Measured using ISO/IEC 24734, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[2] Measured using ISO/IEC 17629. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[3] To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Customer can purchase the HP Jetdirect 3100w BLE/NFC/Wireless accessory or the RadBeacon USB. Subscription may be required. For more information, visit http://www.hp.com/go/roam.
[4] Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh).
[5] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.
[6] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Blue Angel value typically based on measurement of 230V device.
[7] Average black and colour composite (C/M/Y) declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/toneryield. HP Color LaserJet Enterprise M555 in-box colour cartridges may have higher yield than stated for printer units manufactured before 2021.

www.blauer-engel.de/uz205

Windows 10 Mac Universal HI-SPEED CERTIFIED USB

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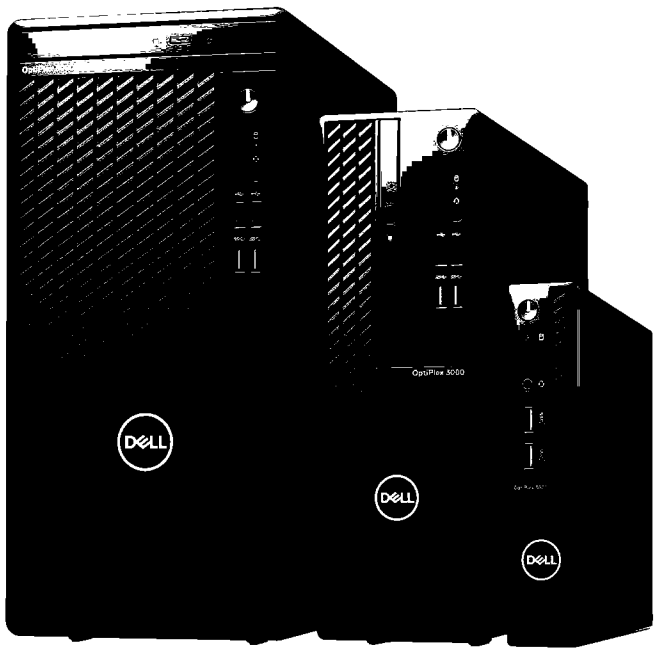
Polytechnická učebna II

Položka 9, 10 a 16 rozpočtu - počítač

OPTIPLEX

3000 Tower, Small Form Factor and Micro

Business desktops with essential performance and smart design



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Technology that revolves around you

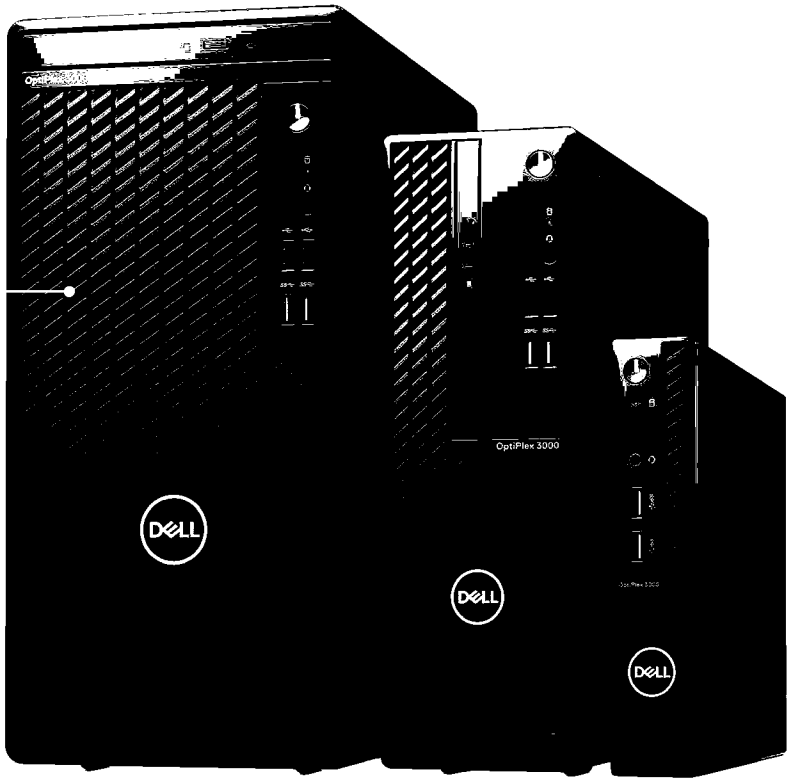
Sustainably built business desktops with essential performance and manageability options to drive maximum value.

Work confidently
OptiPlex is built secure with TPM 2.0, standard security lock slot, Padlock loop, Intrusion switch, SED hard drive, and secure accessories.

Power your success
Built with 12th gen Intel® Core™ processors up to 65W with new Hybrid Core technology (Celeron – i5 for tower and small form factor; Celeron – i7 for micro).

Ventilated front bezel
Optimizes air intake to keep your system cool and protected.

Wi-Fi6E option
Future-proof your IT with the industry's fastest speeds.



Memory that offers more
Take on multi-tasking with up to 64 GB DDR4 memory and achieve more.

Native support for up to 4 displays
Without the need for additional graphics card.

Enhanced visual effects
Optional DisplayPort supports up to 8K resolution displays for better color grading and motion stabilization.

epea GOLD

intel. CORE i9

Most sustainable OptiPlex yet
With up to 60% recycled materials[2] including 1st ocean-bound plastics[3]. EPEAT Gold and ENERGY STAR qualified on select configurations.

Our greatest breadth of custom accessories
including all new micro mounts.

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3000

Sustainability on OptiPlex

OptiPlex is a leading platform for sustainable innovation and utilizes the most recycled content of all Dell PCs with up to 60% recycled plastic and closed-loop materials in its design.

Design

1st

OptiPlex was the first Dell product made with recycled materials in 2007.[4]

Sustainable Materials

60%

OptiPlex desktops contain up to 60% recycled and closed-loop materials.

Packaging Innovation

87%

87% of Dell's packaging is made from recycled or renewable materials.

OPTIPLEX HAS

100+

EPEAT registered products*

EPEAT

40+

TCO certified configurations

TCO

8.0

ENERGY STAR® throughout the portfolio

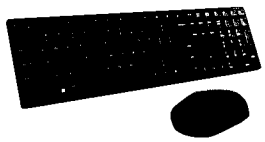
ENERGY STAR®

RECOMMENDED ACCESSORIES

PURPOSE-BUILT

Dell 24 Monitor - P2422H

Stay productive no matter where you work with this sleek 23.5" FHD monitor with ComfortView Plus.



Dell Pro Wireless Keyboard and Mouse – KM5221W

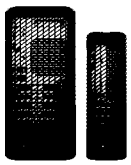
Enhance your everyday productivity with a quiet full-size keyboard and mouse combo that offers programmable shortcuts and up to 36 months battery life.

Dell Pro Stereo Headset – WH3022

Experience exceptional audio clarity with this Teams certified wired headset with a customized fit.

Dell Slim Conferencing Soundbar - SB522A

Experience clear conferencing and reduced background noise, with this intelligent MS Teams-certified soundbar.



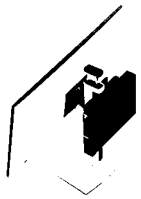
OptiPlex Tower and Small Form Factor Cable Covers

Thermally tested design offers an easy to install and attractive way to manage cables and secure ports.

CUSTOM MOUNTS

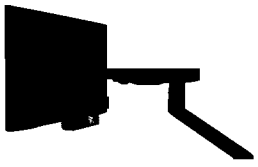
OptiPlex Small Form Factor All-in-One Stand – OSS21

Create a clean workspace for your Small Form Factor with integrated cable management and full range monitor adjustability.



OptiPlex Micro All-in-One Stand - MFS22

Adjustable, compact stand for your micro creates a clean, open workspace with minimal cables.

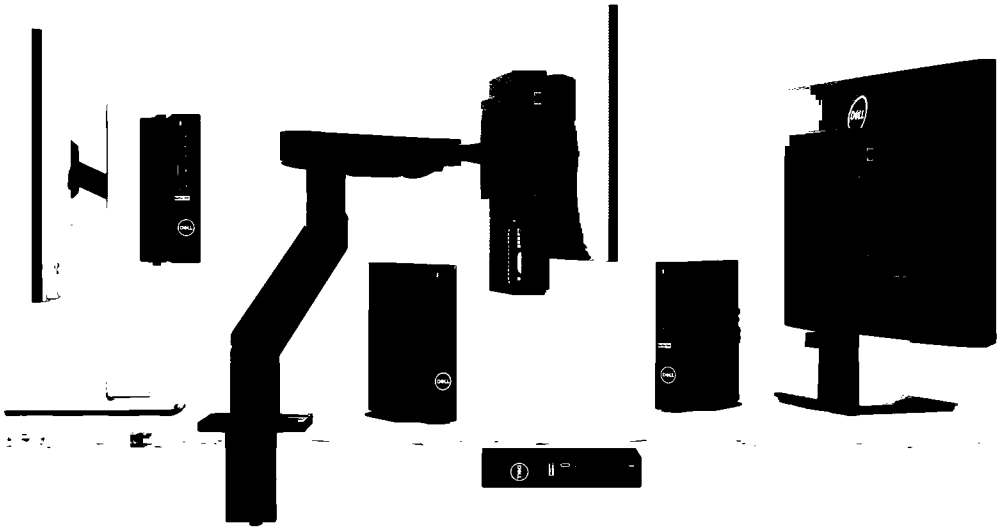


OptiPlex Micro Dual VESA Mount with Adapter Bracket

Versatile micro mounting solution for ideal use with Dell MSA20 or Dell MDA20 Monitor Arms.

OptiPlex Micro All-in-One VESA Mount for E-Series Monitors with Base Extender

Easily mount your micro to select Dell E-Series monitors.



OPTIPLEX

3000

FEATURE	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION
MODEL NUMBER	OptiPlex 3000 Tower	3000 Small Form Factor	3000 Micro
PROCESSOR OPTIONS[1]	Intel® Celeron® Gold G6900, 4MB cache, 2 cores, 4 threads, up to 3.40GHz, 46W Intel® Pentium® Gold G7400, 6MB cache, 2 cores, 4 threads, up to 3.70GHz, 46W 12th Generation Intel® Core™ i3-12100, 12MB cache, 4 cores, 8 threads, 3.30GHz to 4.30GHz, 60W 12th Generation Intel® Core™ i3-12300, 12MB cache, 4 cores, 8 threads, 3.50GHz to 4.40GHz, 60W 12th Generation Intel® Core™ i5-12400, 18MB cache, 6 cores, 12 threads, 2.50GHz to 4.40GHz, 65W 12th Generation Intel® Core™ i5-12500, 18MB cache, 6 cores, 12 threads, 3.00GHz to 4.60GHz, 65W 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W	Intel® Pentium® Gold G7400, 6MB cache, 2 cores, 4 threads, up to 3.70GHz, 46W Intel® Celeron® Gold G6900, 4MB cache, 2 cores, up to 3.40GHz, 46W 12th Generation Intel® Core™ i3-12100, 12MB cache, 4 cores, 8 threads, 3.30GHz to 4.30GHz, 65W 12th Generation Intel® Core™ i3-12300, 12MB cache, 4 cores, 8 threads, 3.50GHz to 4.40GHz, 65W 12th Generation Intel® Core™ i5-12400, 18MB cache, 6 cores, 12 threads, 2.50GHz to 4.80GHz, 65W 12th Generation Intel® Core™ i5-12500, 18MB cache, 6 cores, 12 threads, 3.00GHz to 4.60GHz, 65W 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.40GHz, 65W	Intel® Pentium® G7400T, 6MB, 2 core, 4 threads, up to 3.10GHz, 35W Intel® Celeron® G6900T, 4MB, 2 cores, 2 threads, up to 2.80GHz, 35W 12th Generation Intel® Core™ i3-12100T, 12MB cache, 4 cores, 8 threads, 2.20GHz to 4.10GHz, 35W 12th Generation Intel® Core™ i3-12300T, 12MB cache, 4 cores, 8 threads, 2.30GHz to 4.20GHz, 35W 12th Generation Intel® Core™ i5-12400T, 18MB cache, 6 cores, 12 threads, 1.80GHz to 4.20GHz, 35W 12th Generation Intel® Core™ i5-12500T, 18MB cache, 6 cores, 12 threads, 2.00GHz to 4.40GHz, 35W 12th Generation Intel® Core™ i5-12600T, 18MB cache, 6 cores, 12 threads, 2.10GHz to 4.60GHz, 35W 12th Generation Intel® Core™ i7-12700T, 25MB cache, 12 cores, 20 threads, 1.40GHz to 4.70GHz, 35W
OPERATING SYSTEM[1]	Windows 11 Home, 64-bit Windows 11 Pro, 64-bit Windows 11 Downgrade (Windows 10 image) Windows 11 Pro National Education, 64-bit Windows 11 CMIT Government Edition, 64-bit (China only) Kylin Linux® Desktop version 10.1 (China only) Ubuntu® Linux® 20.04 LTS, 64-bit	Windows 11 Pro, 64-bit Windows 11 Downgrade (Windows 10 image) Windows 11 Pro National Education, 64-bit Windows 11 CMIT Government Edition, 64-bit (China only) Kylin Linux® Desktop version 10.1 (China only) Ubuntu® Linux® 20.04 LTS, 64-bit	Windows 11 Home, 64-bit Windows 11 Pro, 64-bit Windows 11 Downgrade (Windows 10 image) Windows 11 Pro Education, 64-bit Windows 11 CMIT Government Edition, 64-bit (China only) Kylin Linux® Desktop version 10.1 (China only) Ubuntu® Linux® 20.04 LTS, 64-bit
MEMORY OPTIONS[1,2,3]	4GB, 1 x 4GB, DDR4, 3200MHz, single-channel 8GB, 1 x 8GB, DDR4, 3200MHz, single-channel 8GB, 2 x 4GB, DDR4, 3200MHz, dual-channel 16GB, 1 x 16GB, DDR4, 3200MHz, single-channel 16GB, 2 x 8GB, DDR4, 3200MHz, dual-channel 32GB, 1 x 32GB, DDR4, 3200MHz, single-channel 32GB, 2 x 16GB, DDR4, 3200MHz, dual-channel 64GB, 2 x 32GB, DDR4, 3200MHz, dual-channel	4GB, 1 x 4GB, DDR4, 3200MHz, single-channel 8GB, 1 x 8GB, DDR4, 3200MHz, single-channel 8GB, 2 x 4GB, DDR4, 3200MHz, dual-channel 16GB, 1 x 16GB, DDR4, 3200MHz, single-channel 16GB, 2 x 8GB, DDR4, 3200MHz, dual-channel 32GB, 1 x 32GB, DDR4, 3200MHz, single-channel 32GB, 2 x 16GB, DDR4, 3200MHz, dual-channel 64GB, 2 x 32GB, DDR4, 3200MHz, dual-channel	4GB, 1 x 4GB, DDR4, 3200MHz, single-channel 8GB, 1 x 8GB, DDR4, 3200MHz, single-channel 8GB, 2 x 4GB, DDR4, 3200MHz, dual-channel 16GB, 1 x 16GB, DDR4, 3200MHz, single-channel 16GB, 2 x 8GB, DDR4, 3200MHz, dual-channel 32GB, 1 x 32GB, DDR4, 3200MHz, single-channel 32GB, 2 x 16GB, DDR4, 3200MHz, dual-channel 64GB, 2 x 32GB, DDR4, 3200MHz, dual-channel
PRIMARY HARD DISK DRIVES[1,5]	2.5-inch, 1TB, 5400RPM, SATA, HDD 2.5-inch, 2TB, 5400RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD 2.5-inch, 1TB, 7200RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD, Self-Encrypting, Opal 2.0, FIPS 3.5-inch, 1TB, 7200RPM, SATA, HDD 3.5-inch, 2TB, 7200RPM, SATA, HDD 3.5-inch, 4TB, 5400RPM, SATA, HDD M.2 2230, 128GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 512GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 1TB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 256GB, PCIe NVMe Gen3 x4, SSD, Class 35, Self-Encrypting, Opal 2.0, FIPS M.2 2280, 256GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 1TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 2TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 256GB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting, Opal 2.0, FIPS M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting, Opal 2.0, FIPS M.2 2280, 1TB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting, Opal 2.0, FIPS M.2 2230, 512GB, PCIe NVMe Gen4 x4, SSD, Class 35 M.2 2280, 256GB, PCIe NVMe Gen4 x4, SSD, Class 35 M.2 2280, 256GB, PCIe NVMe Gen4 x4, SSD, Class 40 M.2 2280, 512GB, PCIe NVMe Gen4 x4, SSD, Class 40	3.5-inch, 4TB, 5400RPM, SATA, HDD 3.5-inch, 1TB, 7200RPM, SATA, HDD 3.5-inch, 2TB, 7200RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD, Self-Encrypting Opal 2.0, FIPS 2.5-inch, 500GB, 7200RPM, SATA, HDD 2.5-inch, 1TB, 7200RPM, SATA, HDD M.2 2230, 128GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 256GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 512GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 512GB, PCIe NVMe Gen4 x4, SSD, Class 35 M.2 2230, 256GB, PCIe NVMe Gen3 x4, SSD, Class 35, Self-Encrypting Opal 2.0, FIPS M.2 2280, 256GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 1TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 2TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 256GB, PCIe NVMe Gen4 x4, SSD, Class 40 M.2 2280, 512GB, PCIe NVMe Gen4 x4, SSD, Class 40 M.2 2280, 256GB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting Opal 2.0, FIPS M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting Opal 2.0, FIPS M.2 2280, 1TB, PCIe NVMe Gen3 x4, SSD, Class 40, Self-Encrypting Opal 2.0, FIPS	2.5-inch, 1TB, 5400RPM, SATA, HDD 2.5-inch, 2TB, 5400RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD 2.5-inch, 1TB, 7200RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD, Self-Encrypting, Opal 2.0, FIPS M.2 2230, 256GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2230, 512GB, PCIe NVMe Gen3 x4, SSD, Class 35 M.2 2280, 512GB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 2TB, PCIe NVMe Gen3 x4, SSD, Class 40 M.2 2280, 2TB, PCIe NVMe Gen3 x4, SSD, Class 40
GRAPHICS	Intel® UHD Graphics 710 Intel® UHD Graphics 730 Intel® UHD Graphics 770 AMD Radeon™ RX640, 4GB GDDR5 (optional) AMD Radeon™ 540, 1GB GDDR5 (optional) AMD Radeon™ 550, 2GB GDDR5 (optional)	Intel® UHD Graphics 710 Intel® UHD Graphics 730 Intel® UHD Graphics 770 AMD Radeon™ RX 640, 4GB GDDR5 (optional) AMD Radeon™ 540, 1GB GDDR5 (optional) AMD Radeon™ 550, 2GB GDDR5 (optional)	N/A
DISPLAY	Dell commercial displays including E series, Professional P series, UltraSharp, and collaboration monitors	Dell commercial displays including E series, Professional P series, UltraSharp, and Collaboration monitors	Dell commercial displays including E series, Professional P series, UltraSharp, and Collaboration monitors
CASE COLOUR	Dell Standard Black	Dell Standard Black	Dell Standard Black

OPTIPLEX

3000

FEATURE	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION
MODEL NUMBER	OptiPlex 3000 Tower	3000 Small Form Factor	3000 Micro
PRODUCTIVITY SOFTWARE[1]	Microsoft Office 30-day trial Microsoft Office Home and Business 2019 Microsoft Office Professional 2019 Dell Hybrid Client 1.5 (optional) Intel Unite® solution (optional)	Microsoft Office 30-day trial Microsoft Office Home and Business 2019 Microsoft Office Professional 2019 Dell Hybrid Client 1.5 (optional) Intel Unite® solution (optional)	Microsoft Office 30-day trial Microsoft Office Home and Business 2019 Microsoft Office Professional 2019 Dell Hybrid Client 1.5 (optional) Intel Unite® solution (optional)
SECURITY SOFTWARE	McAfee[5] Small Business Security 30-day free trial McAfee[5] Small Business Security 12-month subscription McAfee[5] Small Business Security 36-month subscription SafeGuard and Response, powered by VMware Carbon Black and Secureworks Next Generation Antivirus (NGAV) Endpoint Detection and Response (EDR) Threat Detection and Response (TDR) Managed Endpoint Detection and Response Incident Management Retainer Emergency Incident Response SafeData	McAfee[3] Small Business Security 30-day Free Trial McAfee[3] Small Business Security 12-month subscription McAfee[3] Small Business Security 36-month Subscription SafeGuard and Response, powered by VMware Carbon Black and Secureworks Next Generation Antivirus (NGAV) Endpoint Detection and Response (EDR) Threat Detection and Response (TDR) Managed Endpoint Detection and Response Incident Management Retainer Emergency Incident Response	McAfee[3] Small Business Security 30-day free trial McAfee[3] Small Business Security 12-month subscription McAfee[3] Small Business Security 36-month subscription Intel Guard Technologies & Secure Key: Software Guard (SGX), Boot Guard, BIOS Guard (Core CPU's only), OS Guard (Core CPU's only) and Secure Key (i5 or greater only) Intel Runtime BIOS Resilience (Copper Point) with attestation via Nifty Rock – Intel TXT Support of Absolute Persistent Module BIOS agent v2 OpenXT validation required SafeGuard and Response, powered by VMware Carbon Black and Secureworks Next Generation Antivirus (NGAV) Endpoint Detection and Response (EDR) Threat Detection and Response (TDR) Managed Endpoint Detection and Response Incident Management Retainer
WARRANTY[9,10]	1-year basic warranty with hardware service on-site service after remote diagnosis 2-year basic warranty extension 3-year basic warranty extension 4-year basic warranty extension 5-year basic warranty extension 1-year ProSupport with Next Business Day on-site service 2-year ProSupport with Next Business Day on-site service 3-year ProSupport with Next Business Day on-site service 4-year ProSupport with Next Business Day on-site service 5-year ProSupport with Next Business Day on-site service 1-year ProSupport Plus for Client with Next Business Day on-site service 2-year ProSupport Plus for Client with Next Business Day on-site service 3-year ProSupport Plus for Client with Next Business Day on-site service 4-year ProSupport Plus for Client with Next Business Day on-site service 5-year ProSupport Plus for Client with Next Business Day on-site service	1-year basic warranty with hardware service on-site service after remote diagnostics 2-year basic warranty extension 3-year basic warranty extension 4-year basic warranty extension 5-year basic warranty extension 1-year ProSupport with Next Business Day on-site service 2-year ProSupport with Next Business Day on-site service 3-year ProSupport with Next Business Day on-site service 4-year ProSupport with Next Business Day on-site service 5-year ProSupport with Next Business Day on-site service 1-year ProSupport Plus for Client with Next Business Day on-site service 2-year ProSupport Plus for Client with Next Business Day on-site service 3-year ProSupport Plus for Client with Next Business Day on-site service 4-year ProSupport Plus for Client with Next Business Day on-site service 5-year ProSupport Plus for Client with Next Business Day on-site service	1-year Basic Warranty with Hardware Service on-site service after remote diagnosis 2-year Basic Warranty Extension 3-year Basic Warranty Extension 4-year Basic Warranty Extension 5-year Basic Warranty Extension 1-year ProSupport with Next Business Day on-site service 2-year ProSupport with Next Business Day on-site service 3-year ProSupport with Next Business Day on-site service 4-year ProSupport with Next Business Day on-site service 5-year ProSupport with Next Business Day on-site service 1-year ProSupport Plus for Client with Next Business Day on-site service 2-year ProSupport Plus for Client with Next Business Day on-site service 3-year ProSupport Plus for Client with Next Business Day on-site service 4-year ProSupport Plus for Client with Next Business Day on-site service 5-year ProSupport Plus for Client with Next Business Day on-site service
ACCIDENTAL DAMAGE SERVICES	1-year Accidental Damage Service 2-year Accidental Damage Service 3-year Accidental Damage Service 4-year Accidental Damage Service 5-year Accidental Damage Service	1-year Accidental Damage Service 2-year Accidental Damage Service 3-year Accidental Damage Service 4-year Accidental Damage Service 5-year Accidental Damage Service	1-year Accidental Damage Service 2-year Accidental Damage Service 3-year Accidental Damage Service 4-year Accidental Damage Service 5-year Accidental Damage Service
KEYBOARD[1]	N/A	N/A	N/A
PORTS	**Front:** (2) USB 2.0 ports (2) USB 3.2 Gen 1 ports Universal audio jack **Rear:** (2) USB 3.2 Gen 1 ports (2) USB 2.0 ports with Smart Power On RJ45 Ethernet port DisplayPort 1.4 port HDMI 1.4b port Optional video port (HDMI 2.0b/DisplayPort 1.4/VGA) Serial/PS2 port (optional)	**Front:** (2) USB 2.0 ports (2) USB 3.2 Gen 1 ports Universal audio jack **Rear:** (2) USB 3.2 Gen 1 ports (2) USB 2.0 ports with Smart Power On RJ45 Ethernet port DisplayPort 1.4 port HDMI 1.4b port Optional video port (HDMI 2.0b/DisplayPort 1.4/VGA) Serial port (optional)	**Front:** (2) USB 3.2 Gen 1 ports Universal audio jack **Rear:** (2) USB 3.2 Gen 1 ports USB 2.0 port with Smart Power On USB 2.0 port RJ45 Ethernet port 10/100/1000Mbps DisplayPort 1.4a (HBR2) HDMI port Power adapter port Optional port (HDMI) 2.0b/Displayport 1.4a (HBR3)/ VGA/PS2/serial
OPTICAL DRIVE	8x DVD-ROM (optional) 8x DVD+/-RW (optional)	8x DVD RW, Slimline 9.5mm (optional) 8x DVD-ROM, Slimline 9.5mm (optional)	No optical drive
SLOTS	Kensington security-cable slot Padlock ring Full-height Gen 3 PCIe x16 slot (2) full-height Gen 3 PCIe x1 slots M.2 2230 slot for Wi-Fi and Bluetooth card M.2 2230/2280 slot for SSD (3) SATA slots for 3.5-inch/2.5-inch HDD/SSD, and optical Drive	Kensington security-cable slot Padlock ring Half-height Gen 4 PCIe x 16 slot Half-height Gen 3 PCIe x1 slot M.2 2230 slot for WiFi and Bluetooth card M.2 2230/2280 slot for SSD (2) SATA 3.0 slots for 3.5/2.5-inch HDD, and slim optical drive	Kengsignton security-cable slot Padlock ring M.2 2230 slot for Wi-Fi and Bluetooth card M.2 2230/2280 slot for SSD Gen3 x4 SATA slot for 2.5-inch HDD

OPTIPLEX

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FEATURE	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION
MODEL NUMBER	OptiPlex 3000 Tower	3000 Small Form Factor	3000 Micro
DIMENSIONS	**US:** Height: 12.77in. (324.30mm) Width: 6.06in. (154.00mm) Depth: 11.50in. (292.20mm) Weight (minimum): 11.41lbs. (5.17kg) Weight (maximum): 14.59lbs. (6.61kg) **Rest of world:** Height: 324.30mm (12.77in.) Width: 154.00mm (6.06in.) Depth: 292.20mm (11.50in.) Weight (minimum): 5.17kg (11.41lbs.) Weight (maximum): 6.61kg (14.59lbs.)	**US:** Height: 11.42in. (290.00mm) Width: 3.65in. (92.60mm) Depth: 11.53in. (292.80mm) Weight(minimum): 8.18lbs. (3.71kg) Weight(maximum): 11.09lbs. (5.03kg) **Rest of world:** Height: 290.00mm (11.42in.) Width: 92.60mm (3.65in.) Depth: 292.80mm (11.53in.) Weight(minimum): 3.71kg (8.18lbs.) Weight(maximum): 5.03kg (11.09lbs.)	**US:** Height: 7.16in. (182.00mm) Width: 1.42in. (36.00mm) Depth: 7.00in. (178.00mm) Weight: 1.43lbs. (0.65kg) **Rest of world:** Height: 182.00mm (7.16in.) Width: 36.00mm (1.42in.) Depth: 178.00mm (7.00in.) Weight: 0.65kg (1.43lbs.)
CAMERA	No camera	No camera	No camera
AUDIO & SPEAKERS[1]	Realtek Audio Controller, ALC3246-CG	Realtek Audio Controller, ALC3246-CG	Realtek Audio Controller, ALC3246-CG Internal speakers (optional)
WIRELESS	Intel® AX211, 2x2, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2 MediaTek® MT7921, 2x2, Wi-Fi 6 (WiFi 802.11ax), Bluetooth® 5.2 Intel® 9462, 1x1, Wi-Fi 5 (802.11ac), Bluetooth® 5.1	Intel® AX211, 2x2, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2 MediaTek® MT7921, 2x2, Wi-Fi 6 (WiFi 802.11ax), Bluetooth® 5.2 Intel® 9462, 1x1, Wi-Fi 5 (802.11ac), Bluetooth® 5.1	Intel® AX211, 2x2, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2 MediaTek® MT7921, 2x2, Wi-Fi 6 (WiFi 802.11ax), Bluetooth® 5.2 Intel® 9462, 1x1, Wi-Fi 5 (802.11ac), Bluetooth® 5.1
BATTERY OPTIONS	No battery	No battery	No battery
POWER OPTIONS	300W internal power supply unit (PSU), 92% Efficient, 80 Plus Platinum 240W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze 180W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze	300W internal power supply unit (PSU), 92% Efficient, 80 Plus Platinum 180W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze	90W AC adapter, 4.5mm barrel 65W AC adapter, 4.5mm barrel
REGULATORY[2,*2]	**Product Safety, EMC and Environmental Datasheets:** https://www.dell.com/learn/us/en/uscorp1/product-info-datasheets-safety-emc-environmental **Dell Regulatory Compliance Home Page:** https://www.dell.com/learn/us/en/uscorp1/regulatory-compliance?s=corp **Dell and the Environment:** https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-supply-chain/environment.htm	**Product Safety, EMC and Environmental Datasheets:** https://www.dell.com/learn/us/en/uscorp1/product-info-datasheets-safety-emc-environmental **Dell Regulatory Compliance Home Page:** https://www.dell.com/learn/us/en/uscorp1/regulatory-compliance?s=corp **Dell and the Environment:** https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-supply-chain/environment.htm	**Product Safety, EMC and Environmental Datasheets:** https://www.dell.com/learn/us/en/uscorp1/product-info-datasheets-safety-emc-environmental **Dell Regulatory Compliance Home Page:** https://www.dell.com/learn/us/en/uscorp1/regulatory-compliance?s=corp **Dell and the Environment:** https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-supply-chain/environment.htm
CHIPSET	Intel® B660	Intel® B660	Intel® B660
HARDWARE SECURITY	Kensington security-cable slot Padlock loop Chassis lock slot support Chassis intrusion switch Lockable cable covers SafeID including Trusted Platform Module (TPM) 2.0 Smart card keyboard (FIPS) Microsoft 10 Device Guard and Credential Guard (Enterprise SKU) Microsoft Windows Bitlocker Local hard drive data wipe through BIOS (Secure Erase) Self-encrypting storage drives (Opal, FIPS) Trusted Platform Module TPM 2.0 China TPM Intel Secure Boot Intel Authenticate SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls	Kensington security-cable slot Padlock ring Chasis lock slot support Chassis intrusion switch Lockable cable covers SafeID including Trusted Platform Module (TPM) 2.0 Smart card keyboard (FIPS) Microsoft 10 Device Guard and Credential Guard (Enterprise SKU) Microsoft Windows Bitlocker Local hard drive data wipe through BIOS (Secure Erase) Self-encrypting storage drives (Opal, FIPS) Trusted Platform Module TPM 2.0 China TPM Intel Secure Boot Intel Authenticate SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls	Kensington security-cable slot Padlock ring Chasis lock slot support Chassis intrusion switch Supply chain tamper alerts SafeID including Trusted Platform Module (TPM) 2.0 Smart card keyboard (FIPS) Microsoft 10 Device Guard and Credential Guard (Enterprise SKU) Microsoft Windows Bitlocker Local hard drive data wipe through BIOS (Secure Erase) Self-encrypting storage drives (Opal, FIPS) Trusted Platform Module TPM 2.0 China TPM Intel Secure Boot Intel Authenticate
RECOMMENDED ACCESSORIES	**Mouse:** Dell Pro Wireless Keyboard and Mouse - KM5221W **Audio and Speakers :** Dell Slim Soundbar - SB521A **Audio Headsets :** Dell Pro Stereo Headset - WH3022	**Mouse:** Dell Pro Wireless Keyboard and Mouse - KM5221W **Audio and Speakers :** Dell Slim Soundbar - SB521A **Audio Headsets :** Dell Pro Stereo Headset - WH3022	**Keyboard and Mouse :** Dell Pro Wireless Keyboard and Mouse - KM5221W **Audio Headsets :** Dell Pro Stereo Headset - WH3022 **Mounting Options :** OptiPlex Micro and Thin Client Vertical Stand OptiPlex Micro and Thin Client and Under-the-Desk VESA mount Wall Mount OptiPlex Micro and Thin Client PSU Adapter Sleeve OptiPlex Micro and Thin Client Pro 2 E Series Monitor Mount OptiPlex Micro and Thin Client Dual VESA Mount OptiPlex Micro and Thin Client All-in-One Stand (MFS22)

OPTIPLEX

3000

FEATURE	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION	TECHNICAL SPECIFICATION
MODEL NUMBER	OptiPlex 3000 Tower	3000 Small Form Factor	3000 Micro
SYSTEMS MANAGEMENT	Dell Client Command Suite for In-Band systems management	Dell Client Command Suite for In-Band systems management	Dell Client Command Suite for In-Band systems management
CONFIGURATION SERVICES	N/A	N/A	Factory image load BIOS customization Hardware customization Asset Tagging and Reporting
ADD-IN CARDS	N/A	N/A	N/A

Product Disclosures: pages 2-4

· EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
1 Available on Windows[3] 11.
2 Based on internal analysis, April 2021.
3 Based on internal analysis, April 2021, only applies to OptiPlex Micro.
4 Based on internal analysis, April 2021. 20% closed-loop recycled aluminum by weight in the 2TB 3.5" hard drive, optional on the OptiPlex 7090 Tower and 7090 Small Form Factor. .

Product Disclosures: pages 5-8

1 Offering may vary by region. Some items may be available after product introduction. For complete details, refer to the Technical Guidebook published on www.dell.com/support.
2 System Memory and Graphics: Significant system memory may be used to support graphics, depending on system memory size and other factors.
3 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.
4 Particular versions of Microsoft Windows may not support the full Bluetooth 4.2 functionality
5 Storage Option: GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
6 TPM is available in selected regions.
7 Computrace: Not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.lojackforlaptops.com.
8 Please refer to www.epeat.net for specific country registration rating and participation.
9 Limited Hardware Warranty: For copy of Ltd Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty.
10 on-site service after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty (www.dell.com/warranty) and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply.
11 Dell Services: Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions.
12 For complete listing of declarations and certifications, refer to the Dell Regulatory and Environmental Datasheet found in the Manuals section of Product Support information www.dell.com/support/home/us/en/19.

Polytechnická učebna

Položka 12 - fotoaparát

Kodak ASTRO ZOOM AZ422 černý

Digitální fotoaparát Astro Zoom AZ422 Black světoznámé značky **Kodak** v sobě kombinuje moderní minimalistický design, **42x optický výkonný ultrazoom,** ergonomický tvar, **24mm širokoúhlý objektiv, 20MPix snímač CCD s** 3" LCD displejem a provozem na Li-Ion baterie.

Tento černý "foťák" umožňuje **Wi-Fi konektivitu** a dálkové ovládání přes **aplikaci v telefonu.** Snadno se ovládá díky **českému menu** a 3" LCD displeji. **Podporuje SD karty a nabíjí jej Li-Ion baterie.** Stává se tak ideální volbou pro **každodení nošení** ale i pro **pořádné výlety.**

Fotoaparát AZ422 navrhl výrobce speciálně tak, aby splnil nároky pro kvalitní **fotografie.** Objektiv s **42x optickým zoomem** nabízí působivé přiblížení a s rozsahem **ohniskové vzdálenosti 24-1008 mm** (ekv. formátu FX) umožňuje přístroji všestranné použití od skupinových snímků po fotografování na velkou vzdálenost.

V kombinaci s **4x digitálním zvětšením** lze dosáhnout až **168x kombinovaného zoomu.** Zachyťte pohyb jasně a ostře pomocí jediného stisknutí tlačítka s videem v rozlišení 720p při 30 sn/s. **20MPix snímač a optická stabilizace (OIS)** umožňují pořízení fotografií se zoomováním dle libosti.

Funkce navíc

Usnadněte si život a foťte bez starostí díky CCD snímači. Využijte třeba **noční režim,** soumrak, nebo **panoramatický režim** při pořádné vyhlídce. Také můžete jednoduše fotit s prioritou **závěrky, v ručním režimu** a mnoho dalšího.

Funkce Autodetekce je snadno ovladatelná a lehce přístupná z menu fotoaparátu. Jednoduše zvolte, na co má fotoaparát reagovat, zda na **obličej, mrknutí nebo úsměv (ale i kočku či psa)** a bavte se bez obav, že vám uniká něco důležitého. Uvolněte se a užívejte si **života s Kodakem.**

Práci vám usnadní moderní vlastnosti. Na výběr máte **kreativní režimy, funkci HDR, skvělé HD video,** potlačení efektu **červených očí** při focení s bleskem a režimy autodetekce. Také si můžete **oříznout již hotovou fotografii** přímo ve fotoaparátu. Nebojte se, že si neporozumíte, protože fotoaparáty Kodak mají **menu kompletně v češtině.**

Propojte "foťák" se smartphonem a ihned sdílejte své snímky **bez stahování do PC.** Prostřednictvím aplikace můžete fotoaparát chytrým telefonem nejen ovládat, ale rovnou si na něm **snímky prohlížet, upravovat** a sdílet.

Hlavní přednosti

- Kompaktní funkční fotoaparát Kodak s velikým přiblížením
- 20Mpix snímač a 42x optický zoom a 24mm širokoúhlý objektiv
- 3" LCD obrazovka, podpora SD karet
- 720 pixelů HD video rozlišení
- Li-Ion baterie

Rozlišení fotografie

- (4:3)
- 20MP: 5152 x 3864
- 10MP:3648 x 2736
- 5MP: 2592 x 1944
- 3MP: 2048 x 1536
- 0.3MP: 640 x 480
- (3:2)
- 17MP: 5152 x 3432
- (16:9)
- 15MP: 5152 x 2896
- 2MP: 1920 x 1080

Rozlišení video

- 1280 x 720 (30/15 fps)
- 640 x 480 (30 fps)

Obraz

- Senzor: 1/2.3" CCD
- Efektivní počet pixelů: 20,16 MPx
- Celkové počet pixelů: 21,48 MPx
- Stabilizace: optická (OIS)
- Komprese: nejlepší / dobrá / normální
- Digitální zoom: 4x (kombinovaný zoom: 168x)

Objektiv

- Ohnisková vzdálenost: 4,3 mm (širokoúhlý) - 180,6 mm (Tele)
- 35mm ekvivalent: 24 mm (širokoúhlý) - 1008 mm (Tele)
- Světelnost: F3.0 (širokoúhlý) - F6.8 (Tele)
- Konstrukce objektivu: 15 prvků v 11 skupinách
- Optický zoom: 42x
- Rozsah zaostření: Normální: (širokoúhle) 50cm ~ nekonečno, (Tele) 200 cm ~ nekonečno, Makro: 1,6 cm ~ nekonečno (pouze širokoúhle)

Fotoaparát

- DCF, DPOF (Ver 1.1): podporuje
- Formát fotografie: Exif 2.3 (JPEG)
- Formát videa: obraz: MOV (Image: H.264; Audio: Linear PCM Monofonní)
- Režimy fotografování: Automatický režim / Program AE / Priorita závěrky / Priorita světelnosti / Ruční režim / Zkrášlovač tváře / Panoramatický režim / Režim Scéna (režim Zvířata / Soumrak / Ohňostroj / Sport / Noční portrét / Krajina / Portrét / Sníh / Děti / Párty / Noční krajina / ASCN) / Režim videa / Vlastní nastavení
- Funkce detekce: Obličej / úsměv / mrknutí / kočka / pes

- Optimalizace: redukce červených očí / hebká pleť / rozjasnění očí / zvětšení očí
- HDR: ano
- Panorama: až 180 ° (horizontální)
- Citlivost ISO: Auto / ISO 80 / 100 / 200 / 400 / 800 / 1600 / 3200 (4M)
- Způsob AF: Jednotlivý AF / Multi AF (TTL-9 bodů) / Detekce obličeje / Sledování objektu
- Způsob měření expozice: umělá inteligence AE (AIAE) / průměr / zaměření (fixně střed) / AE obličeje
- Způsob kontroly expozice: program AE (Zámek AE k dispozici) / priorita závěrky / priorita světelnosti
- Kompenzace expozice: ±2EV v 1/3 krocích
- Rychlost závěrky: 1 / 2000 - 30 vteřin
- Sekvenční snímání: ano
- Režimy Přehrávání: Fotka / Index (ikony 9/16) / Prezentace / Datum / Zvětšení (2 až 8x)
- Ovládání vyvážení bílé: AWB / Denní světlo / Oblačno / Zářivka / Zářivka CWF / Žárovka / Ruční vyvážení bílé / Teplota barev 1900K - 10000K

Blesk

- Typ: Interní (pop-up manuálně)
- Režimy: Vypnuto / Automatický blesk / Vynucený blesk / Pomalá synch. / Pomalá synch.+ Redukce červených očí / Redukce červených očí
- Dosah blesku: (Šířka) přibl. 0,5 až 7,5 m (ISO800) (Tele) přibl. 1,2 až 3,7 m (ISO800)

Ostatní

- LCD displej: 3" (460k pixelů)
- Ukládání médií: interní paměť: přibl. 8 MB, Paměťová karta SD/SDHC (podpora až 32 GB) [nepodporuje kartu MMC]
- Podpora více jazyků: Čeština / Angličtina / čínština (zjednodušená a tradiční) / japonština / korejština / francouzština / španělština / portugalština / thajština / indonéština / vietnamština / italština / němčina / holandština / ruština / polština / švédština / dánština / finština / norština / řečtina / turečtina / maďarština / chorvatština / arabština / hindština
- Konektory: AV-OUT/USB 2.0 (Mikro 5 pin USB) / HDMI (TYP D)
- Další funkce: podpora Eye-Fi, PictBridge, ExifPrint
- Napájení: dobíjecí Li-Ion baterie LB-060, 3,7 V 1100 mAh, nabíjení uvnitř fotoaparátu
- Výdrž baterie: přibl. 200 snímků (dle norem CIPA)
- Provozní podmínky: Teplota: 0 až 40 °C, Vlhkost: 0 až 90 %

Obecné

- Barva: černá
- Hmotnost: 444 g (pouze fotoaparát bez baterií)
- Rozměry (Š x V x H): 11,27 x 8,16 x 8,44 cm (dle norem CIPA)

Obsah balení

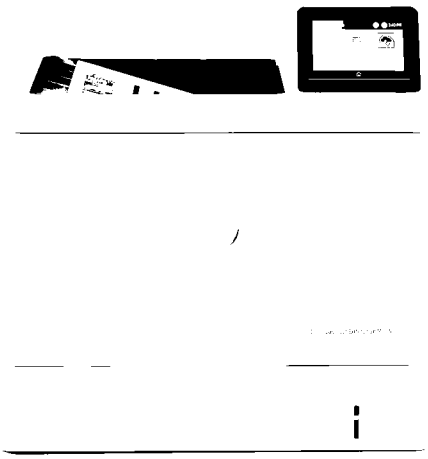
1. Kodak ASTRO ZOOM AZ422
2. Dobíjecí Li-Ion baterie
3. Micro USB kabel

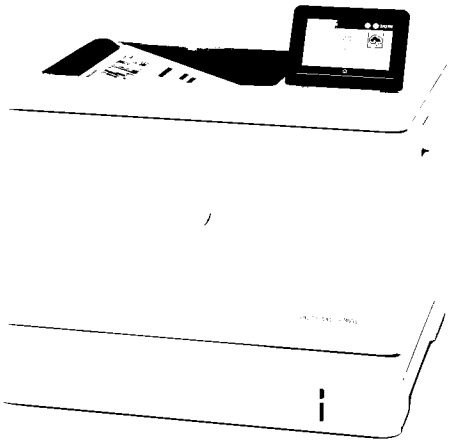
4. Popruh
5. Krytka objektivu se šňůrkou
6. Průvodce rychlým startem

Data sheet

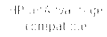
HP Color LaserJet Enterprise M555 Printer series

Future-proof performance for whatever business brings





Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future. Learn more at: http://www.hp.com/go/learnaboutsupplies



The world's most secure printing[1]

- The operating code (BIOS) is automatically checked during startup and repairs itself if compromised.
- Common Criteria certified[2] to continually monitor memory activity to detect and stop attacks in real time.
- Firmware is automatically checked during startup to determine if it's authentic code – digitally signed by HP.
- The printer's outgoing network connections are inspected to stop suspicious requests and thwart malware.

Easy to use, simple to manage

- HP FutureSmart firmware can be updated with the latest features[3] to optimise your investment for years to come.
- Centralise control of your printing environment with HP Web Jetadmin – and help build business efficiency.[4]
- Easily enable workflows across your fleet with a consistent user experience and intuitive, tablet-like icons.
- Expect consistent, high-quality results with technology that automatically adjusts print settings to paper type.

Enhanced productivity to empower workgroups

- Give workgroups what they need to succeed. Easily choose and deploy hundreds of HP and third-party solutions.
- Keep your office connected. Built-in Ethernet and Dual-band Wi-Fi®[5] connectivity let you share printing resources on a network.
- Easily manage jobs directly at the printer with a customisable 10.9 cm (4.3 inch) colour touchscreen.
- Spend less time loading paper with up to three input trays for an additional capacity of 2,300 sheets.

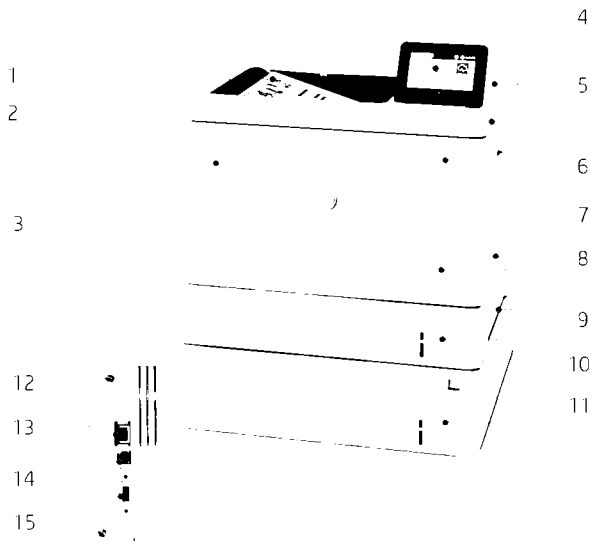
Sustainability is smart business

- Help save paper right out of the box. Two-sided (duplex) printing is set at default for automatic savings.[6]
- Help reduce wasted paper and toner by only printing jobs that are truly needed, using HP Roam for Business.[7]
- Help save energy intelligently by using only the power you need with HP Auto-On/Auto-Off Technology.[8]
- Help reduce your impact. Count on easy cartridge recycling at no charge with HP Planet Partners.[9]

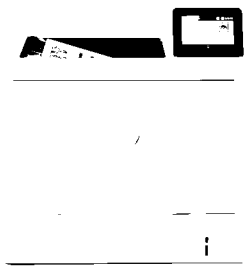
Product walkaround

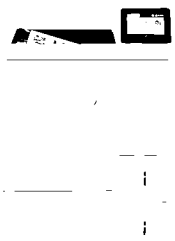
HP Color LaserJet Enterprise M555x shown

1. 250 sheet output bin
2. Front door for access to Original HP Toner cartridges with JetIntelligence
3. Automatic two-sided printing (default)
4. 10.9 cm (4.3-inch) colour graphics display with touchscreen
5. Hardware Integration Pocket (for connecting accessory and third-party devices)
6. Easy-access USB port
7. Convenient front on/off switch
8. Right door for clearing jams and access to the fuser
9. 100 sheet multipurpose tray 1
10. Lower right door for clearing jams
11. Two 550 sheet input trays for a 1,200 sheet total input capacity
12. Slot for cable-type security lock
13. Gigabit Ethernet network port
14. Hi-Speed USB 2.0 printing port
15. Hi-Speed USB 2.0 port for third-party devices



Series at a glance





Model	HP Color LaserJet Enterprise M555dn	HP Color LaserJet Enterprise M555x
Product number	7ZU78A	7ZU79A
Print speed (A4)	Up to 38 ppm	
Automatic two-sided printing (default)	Yes	
100 sheet multipurpose tray 1 and 550 sheet input tray 2	Yes	
550 sheet input tray 3	Optional (up to 3)	Yes (plus up to 2)
Input capacity (standard/maximum)	Up to 650/2,300 sheets	Up to 1,200/2,300 sheets
Printer stand	Optional	
Control panel	10.9 cm (4.3-inch) colour touchscreen	
Memory (standard/maximum)	1 GB / 2 GB	
HP High-Performance Secure Hard Disk	Optional	
Hardware Integration Pocket (HIP)	Yes	
Dual-band Wi-Fi with Bluetooth® Low Energy, Wi-Fi Direct®	Optional	Yes
ENERGY STAR® Certified, Blue Angel Certified	Yes	

Accessories, Supplies and Support

Supplies [7]	**B5L36A** HP Color LaserJet B5L36A 220V Fuser Kit (Average yield 150,000 pages)
	B5L37A HP Color LaserJet B5L37A Toner Collection Unit (Average yield 54,000 pages)
	W2120A HP 212A Black Original LaserJet Toner Cartridge (5,500 pages)
	W2120X HP 212X High Yield Black Original LaserJet Toner Cartridge (13,000 pages)
	W2121A HP 212A Cyan Original LaserJet Toner Cartridge (4,500 pages)
	W2121X HP 212X High Yield Cyan Original LaserJet Toner Cartridge (10,000 pages)
	W2122A HP 212A Yellow Original LaserJet Toner Cartridge (4,500 pages)
	W2122X HP 212X High Yield Yellow Original LaserJet Toner Cartridge (10,000 pages)
	W2123A HP 212A Magenta Original LaserJet Toner Cartridge (4,500 pages)
	W2123X HP 212X High Yield Magenta Original LaserJet Toner Cartridge (10,000 pages)
Accessories	**2MU47A** HP Accessibility Assistant
	2NR12A HP Removable Hard Drive Enclosure
	3JN69A HP Jetdirect 3100w BLE/NFC/Wireless Accessory
	5EL03A HP Secure Hard Disk Drive with FIPS Validation (TAA Compliant)
	8FP31A HP Jetdirect LAN Accessory
	B5L28A HP Internal USB Ports
	B5L29A HP High-Performance Secure Hard Disk
	B5L34A HP Color LaserJet 550-sheet Media Tray
	B5L51A HP Color LaserJet Printer Cabinet
	G6W84A HP 1 GB 90-pin DDR3 DIMM
	X3D03A HP Universal USB Proximity Card Reader
	Y7C05A HP HIP2 Keystroke Reader
Service and Support	**U8CG3E** HP 3 year Next Business Day for Color LaserJet M55x service **U8CH0E** HP 4 year Next Business Day for Color LaserJet M55x service **U8CH1E** HP 5 year Next Business Day for Color LaserJet M55x service **U8CJ4PE** HP 1 year Post Warranty Next Business Day for Color LaserJet M55x service **U8CJ7PE** HP 2 year Post Warranty Next Business Day for Color LaserJet M55x service **U9JT1E** HP Installation Service with Network Configuration for Personal Scanner and Printer (1 unit)

Technical specifications

Model	HP Color LaserJet Enterprise M555dn	HP Color LaserJet Enterprise M555x
Product number	7ZU78A	7ZU79A
Functions	Print	
Control panel	10.92 cm touchscreen with colour graphics	
Print		
Print technology	Laser	
Print speed[1]	**Black (A4, normal)**: Up to 38 ppm; **Colour (A4, normal)**: Up to 38 ppm; **Black (A4, duplex)**: Up to 38 ipm; **Colour (A4, duplex)**: Up to 38 ipm;	
First page out[2]	**Black (A4, ready)**: As fast as 6.7 sec; **Colour (A4, ready)**: As fast as 7.6 sec; **Black (A4, sleep)**: As fast as 9 sec; **Colour (A4, sleep)**: As fast as 9 sec;	
Print resolution	**Black (best)**: HP ImageREt 3600; **Colour (best)**: HP ImageREt 3600; **Technology**: HP ImageREt 3600, Pantone Calibrated;	
Monthly duty cycle	Up to 80,000 pages A4; **Recommended monthly page volume**: 2,000 to 10,000	
Printer smart software features	Apple AirPrint™, Mopria-certified, HP ePrint, ROAM optional for easy printing, Open Extensibility Platform, FutureSmart Firmware, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, Hardware Integration Pocket, Intuitive 4.3" touchscreen control panel, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs	Apple AirPrint™, Mopria-certified, HP ePrint, ROAM capable for easy printing, Wi-Fi Direct Printing, Bluetooth® Low-Energy, Open Extensibility Platform, FutureSmart Firmware, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, Hardware Integration Pocket, Intuitive 10.92 cm touchscreen control panel, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs
Standard print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7)	
Fonts and typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono WorldType); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); Additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at http://www.hp.com/go/laserjetfonts	
Print area	**Print margins** Top: 2 mm absolute/5 mm assured image, Bottom: 2 mm absolute/5 mm assured image, Left: 2 mm absolute/5 mm assured image, Right: 2 mm absolute/5 mm assured image; Maximum print area: 212 x 352 mm	
Duplex printing	Automatic (standard)	

Model	HP Color LaserJet Enterprise M555dn	HP Color LaserJet Enterprise M555x
Product number	7ZU78A	7ZU79A
Fax		
Fax specifications		**Telecom compliance**: Telecom Wireless: RSS-Gen Issue 4/RSS 247 Issue 1, 2015 & RSS 102 Issue 5, 2015; EN 301 489-1 V2.2.3; EN 301 489-17 V3.2.2; RSS 247 Issue 1, 2015 & RSS 102 Issue 5, 2015; EN 300 328 V2.1.1; EN 301 893 V2.1.1. Other Telecom approvals as required by individual countries.
Processor speed	1.2 GHz	
Connectivity		
Standard	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network; Hardware Integration Pocket	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network; 1 Wireless 802.11b/g/n / 2.4 / 5 GHZ Wi-Fi radio; Hardware Integration Pocket
Optional	HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A; HP Jetdirect LAN Accessory 8FP31A	HP Jetdirect LAN Accessory 8FP31A
Wireless	Optional, enabled with purchase of a wireless hardware accessory. Dual-band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A	Embedded Dual-band Station and Wi-Fi Direct Functionality
Mobile printing capability[3]	HP ePrint; Apple AirPrint™; NFC touch-to-print (optional); Mopria™ Certified; ROAM optional for easy printing	HP ePrint; Apple AirPrint™; NFC touch-to-print (optional); Mopria™ Certified; ROAM capable for easy printing; Wi-Fi® Direct printing
Supported network protocols	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP 2.0, Apple AirPrint™, HP ePrint, FTP Print, Google Cloud Print; DISCOVERY: SLP, Bonjour, Web Services Discovery; IP CONFIG: IPv4 (BootP, DHCP, AutoIP, Manual, TFTP Config, ARP-Ping), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPs, Telnet, TFTP Config, FTP FW Download, Syslog; Security: SNMPv3, SSL Cert Management, Firewall, ACL, 802.1x	
Network capabilities	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networking (optional).	Yes, via HP Jetdirect Ethernet embedded print server (standard) supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec (standard); 802.11b/g/n / 2.4 / 5 GHZ Wi-Fi radio wireless networking (standard)
Hard disk	Optional, 500 GB (with accessory B5L29A)	
Memory	**Standard**: 1 GB; **Maximum**: 2 GB	

Model	HP Color LaserJet Enterprise M555dn	HP Color LaserJet Enterprise M555x
Product number	7ZU78A	7ZU79A
Media handling		
Number of paper trays	**Standard**: 2 ; **Maximum**: 5	
Media types	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy) colour transparency, labels, envelope, preprinted, prepunched, coloured, rough, opaque film, user-defined	
Media size	**Custom (metric)**: Tray 1: 76 x 127 to 216 x 356 mm; Tray 2: 102 x 148 to 216 x 297 mm; Optional Trays 3+: 102 x 148 to 216 x 356 mm ; **Supported (metric)**: Tray 1: A4, RA4, A5, B5 (JIS), B6 (JIS), 10 x 15 cm, A6, 16K, envelopes (B5, C5 ISO, C6, DL ISO); Custom: 76 x 127 to 216 x 356 mm; Tray 2: A4, A5, B5 (JIS), B6 (JIS), 10 x 15 cm, A6, 16K; Custom: 102 x 148 to 216 x 297 mm; Optional Trays 3+: A4, RA4, A5, B5 (JIS), 16K; Custom: 102 x 148 to 216 x 356 mm	
Media handling	**Standard input**: 100 sheet multipurpose tray, 550 sheet input tray 2 **Standard output**: 250 sheet output bin **Optional input**: 550 sheet media input tray 3, 550 sheet media input tray 4, 550 sheet media input tray 5	
Media weight	Tray 1: 60 to 220 g/m² (plain paper), 105 to 220 g/m² (glossy paper); Tray 2: 60 to 220 g/m² (plain paper), 105 to 220 g/m² (glossy paper); Optional Trays 3+: 60 to 220 g/m² (plain paper), 105 to 220 g/m² (glossy paper); Automatic Duplexer: 60 to 163 g/m²;	
Input capacity	**Tray 1**: Sheets (75 g/m² paper): 100; Transparencies, cardstock (163 g/m²): 50; Cardstock (216 g/m²): 30; Envelopes: 10 **Tray 2**: Sheets (75 g/m² paper): 550; Labels, cardstock (163 g/m²), Transparencies: 200 **Tray 3**: Sheets (75 g/m² paper): 550; Labels, cardstock (163 g/m²), Transparencies: 200 **Maximum**: Up to 2,300 sheets	
Output capacity	**Standard**: Up to 250 sheets Envelopes: Up to 10 envelopes Transparencies: Up to 100 sheets **Maximum**: Up to 250 sheets	
Compatible operating systems	Windows Client OS (32/64-bit): Win10, Win8.1, Win7 Ultimate, Mobile OS-, iOS, Android; Mac: Apple® macOS High Sierra v10.13, Apple® macOS Mojave v10.14, Apple® macOS Catalina v10.15; Discrete PCL6 Printer Driver: for more information on the supported operating systems go to http://www.support.hp.com, Enter your product name and search, Click on User Guides and enter your product name and search for User Guide, Search for your (Product Name) - User Guide, Search for the Supported Operating Systems section; UPD PCL6 / PS Printer Drivers, Supported Operating systems: for more information on the supported operating systems see http://www.hp.com/go/upd	
Compatible network operating systems	Windows Server 2008 R2 64-bit, Windows Server 2008 R2 64-bit (SP1), Windows Server 2012 64-bit, Windows Server 2012 R2 64-bit, Windows Server 2016 64-bit, Windows Server 2019 64-bit, Citrix Server 6.5, Citrix XenApp & XenDesktop 7.6, Novell iPrint server, Citrix Ready Kit Certification - Up to Citrix Server 7.18 for more information see http://www.citrixready.citrix.com; Linux: For more information see http://developers.hp.com/hp-linux-imaging-and-printing; Unix: For more information see http://www.hp.com/go/unixmodelscripts; UPD PCL6 / PS Printer Drivers: For more information on the supported operating systems go to http://www.support.hp.com, Enter your product name and search, Click on User Guides and enter your product name and search for User Guide, Search for your (Product Name) - User Guide, Search for the Supported Operating Systems section; UPD PCL6 / PS Printer Drivers, Supported Operating systems: for more information on the supported operating systems see http://www.hp.com/go/upd	
Minimum system requirements	**Windows**: 2 GB available hard disk space, Internet connection, or USB port, Internet browser. For additional OS hardware requirements see http://www.microsoft.com; **Mac**: 2 GB available hard disk space, Internet connection, or USB port, Internet browser. For additional OS hardware requirements see http://www.apple.com	
Software included	No software solutions are included in the Box, only on http://www.hp.com, http://www.123.hp.com	
Security management	Identity management: Kerberos authentication; LDAP authentication; 1000 user PIN codes; optional HP and 3rd party advanced authentication solutions (e.g.; badge readers); Network: IPsec/firewall with Certificate; Pre-Shared Key; and Kerberos authentication; Supports WJA-10 IPsec configuration Plug-in; 802.1X authentication (EAP-PEAP; EAP-TLS); SNMPv3; HTTPS; Certificates; Access Control List; Data: Storage Encryption; Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft); Secure Erase; SSL/TLS (HTTPS); Encrypted Credentials; Device: Security lock slot; USB port disablement; Hardware Integration Pocket for security solutions; Intrusion Detection with Red Balloon Security Technology (Constant in-device monitoring for attacks); HP Sure Start Secure Boot (BIOS Integrity Checking with self-healing capability); Whitelisting (loads only known good code DLLs, EXEs, etc.); Embedded Trusted Platform Module (TPM); HP Connection Inspector; Security management: Compatible with HP JetAdvantage Security Manager, Device Security Syslog Messages processed and accessible in Arcsight and Splunk SIEMs	
Printer management	HP Printer Assistant, HP Device Toolbox, HP Web JetAdmin Software, HP JetAdvantage Security Manager, HP SNMP Proxy Agent, HP WS Pro Proxy Agent, Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator)	
Dimensions and weight		
Printer dimensions (W x D x H)	**Minimum** 458 x 479 x 380 mm; **Maximum**: 820 x 785 x 455 mm;	**Minimum** 458 x 479 x 513 mm; **Maximum**: 820 x 785 x 588 mm;
Package dimensions (W x D x H)	600 x 500 x 598 mm	750 x 600 x 598 mm
Printer weight	27.5 kg	33.4 kg
Package weight	31.3 kg	39.6 kg
Operating environment	**Temperature**: 10 to 32°C; **Humidity**: 30 to 70% RH	
Storage conditions	**Temperature**: -20 to 40°C;	
Acoustics	**Acoustic power emissions**: 6.3 B(A) (Printing at 38 ppm); **Acoustic pressure emissions**: 51 dB(A) (Printing at 38 ppm)	
Power	**Requirements**: Input voltage: 220 to 240 VAC, 50 Hz (not dual voltage, product varies by part number with # Option code identifier); **Consumption**: 622 watts (Printing), 31.3 watts (Ready), 2.4 watts (Sleep), 0.06 watts (Auto-Off/Manual On), 0.69 watts (Auto-Off/Auto-On/Wake on LAN); **Typical Electricity Consumption (TEC)**[4]: Blue Angel: 1.368 kWh/Week; Energy Star 3.0: 0.464 kWh/Week; **Power supply type**: Internal (built-in) 220V Power Supply;	
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology	
Certifications[5]	CISPR 22:2008 (International) Class A, CISPR 32:2012 (International)/ EN 55032:2012, CISPR 35:2016 (International)/ EN 55035:2017, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013. Other EMC approvals as required by individual countries. Blue Angel; CECP; ENERGY STAR® certified; EPEAT® Silver	CISPR 22:2008 (International) Class A, CISPR 32:2012 (International)/ EN 55032:2012, CISPR 35:2016 (International)/ EN 55035:2017, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013. Other EMC approvals as required by individual countries. Blue Angel; CECP; ENERGY STAR® qualified; EPEAT® Silver
Blue Angel compliant[6]	Yes, Blue Angel DE-UZ 205—only ensured when using Original HP supplies	
Country of origin	Made in Japan	
What's in the box[7]	HP Color LaserJet Enterprise M555dn Printer; Four preinstalled HP LaserJet toner cartridges (yield 5,500 pages black, 3,500 pages cyan, magenta, yellow composite); Toner collection unit; In-box documentation; Power Cord	HP Color LaserJet Enterprise M555x Printer; Four preinstalled HP LaserJet toner cartridges (yield 5,500 pages black, 3,500 pages cyan, magenta, yellow composite); Toner collection unit; In-box documentation; Power Cord
Warranty	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://www.hp.com/support to learn about HP award winning service and support options in your region.	

Footnotes

[1] HP's most advanced embedded security features are available on HP Managed and Enterprise devices with HP FutureSmart firmware 4.5 or above. Claim based on HP review of 2019 published features of competitive in-class printers. Only HP offers a combination of security features to automatically detect, stop, and recover from attacks with a self-healing reboot, in alignment with NIST SP 800-193 guidelines for device cyber resiliency. For a list of compatible products, visit http://www.hp.com/go/PrintersThatProtect. For more information, visit http://www.hp.com/go/PrinterSecurityClaims.
[2] Third-party certification based on Common Criteria Information Technology Security Evaluation ISO/IEC 15408 Standard requirements as of May 2019. Certification applicable to HP Enterprise and Managed devices running HP FutureSmart Firmware version 4.5.1 and later. For more information: https://www.commoncriteriaportal.org/files/epfiles/Certification%20Report%20-%20HP%20Intrusion%20Detection.pdf.
[3] Some features enabled by future HP FutureSmart firmware upgrades may not be available on older devices, if for example, physical product characteristics limit the functionality of the new feature.
[4] HP Web Jetadmin is free and available for download at http://www.hp.com/go/webjetadmin.
[5] Mobile device needs to be connected directly to the signal of a Wi-Fi Direct® supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®. For details, see http://www.hp.com/go/mobileprinting.
[6] Dependent upon country setup specifications.
[7] To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Subscription may be required. For more information, visit http://www.hp.com/go/roam.
[8] HP Auto-On/Auto-Off Technology capabilities subject to printer and settings. May require a firmware upgrade.
[9] Program availability varies. For more information, visit http://www.hp.com/recycle.

Technical specifications disclaimers

[1] Measured using ISO/IEC 24734, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[2] Measured using ISO/IEC 17629. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[3] To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Customer can purchase the HP Jetdirect 3100w BLE/NFC/Wireless accessory or the RadBeacon USB. Subscription may be required. For more information, visit http://www.hp.com/go/roam.
[4] Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh).
[5] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.
[6] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Blue Angel value typically based on measurement of 230V device.
[7] Average black and colour composite (C/M/Y) declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/toneryield. HP Color LaserJet Enterprise M555 in-box colour cartridges may have higher yield than stated for printer units manufactured before 2021.

www.blauer-engel.de/uz205

Windows 10 Mac Universal HI-SPEED CERTIFIED USB

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