SP4K-15

17,000 lumens smart cinema projector **PRELIMINARY SPECS**



- Brilliant image
- Ready for tomorrow, today
- Barco EcoPureTM
- Fit and forget

SP4K-15 is part of the Series 4 portfolio, designed in close collaboration with industry partners. Market trends in content creation, exhibition and technology were taken into account. The result? A next-generation laser projection family for all cinema screens. The SP4K models come in many different configurations offering you the freedom of choice. A wide range of brightness options, compatibility with both Barco lenses and selected 3rd party lenses, as well as a touch display and live streaming option. Play with the available options to match your specific needs.

Brilliant image

The SP4K models of the Series 4 family brings native 4K resolution, higher contrast and enhanced uniformity into the movie theater. The Barco Active Image ManagementTM includes patented technology to guarantee sharp, consistent image quality over time.

Ready for tomorrow, today

With the SP4K models and their RGB laser lightsource, the Barco ColorgenicTM technology opens up more than 98.5% of Rec. 2020. Moreover, all SP4K models are fully enabled for future innovations like 4K 120fps and compatibility with the latest immersive audio standard.

Barco EcoPureTM

This silent running projector (51dB(A)) is fully ready for boothless operation. In addition, In addition, the SP4K-15 smartly manages its power consumption reaching projector efficiency levels up to 10.3 lumens per Watt. In eco-mode it consumes even less than 3 Watt. What's more, remote wake up on LAN is possible for scheduled maintenance or ingest.

Fit and forget

The modular design of the Series 4 projectors allows for cost-effective maintenance. There are only six Barco laser plateTM spare parts to service all light source configurations. Anyone can replace the filters thanks to the toolless cover and filter handling. The SP4K-15 seamlessly integrates into your current setup.



Native contrast ratio 2 U U Digital MicroMirror Device™ 3	7,000 lumens (typical) 2000:1 (typical) up to 3000:1 with HC lens 5x 1.38° DC4K native 4K: 4096 x 2160 DCI P3 compliant (98.5% of Rec.2020)	
Digital MicroMirror Device™ 3	DCI P3 compliant (98.5% of Rec.2020)	
Digital MicroMirror Device™ 3	бх 1.38° DC4K native 4К: 4096 x 2160 DCI P3 compliant (98.5% of Rec.2020)	
	native 4K: 4096 x 2160 DCI P3 compliant (98.5% of Rec.2020)	
Resolution n	DCI P3 compliant (98.5% of Rec.2020)	
Color gamut		
Light source	aser	
	0.8; 1.01; 1.13-172; 1.35-1.86; 1.46-2.10; 1.65-2.60; 2.00-3.35; 2.53-4.98 High-brightness and high-contrast B-lenses compatible	
Long-term brightness stability 4	10,000 hrs @ average usage conditions	
Housing ir	ntegrated cooling design and patented sealed optical assembly	
Dimensions (WxLxH)	Projector incl feet: 760 x 1470 x 612 mm/ 29,92 x 57,54 x 24,09 inches	
Weight 1	41kg/311lbs	
Power requirements s	ingle phase or triple phase 200-240V 9A	
Heat load (max. power) 5	5300BTU/hr	
Exhaust airflow 4	100CFM	
Ambient temperature 4	40°C/104F Max.	
Ambient humidity 8	35% RH max	
Media server	Barco Alchemy ICMP-X and other media server brands** supported.	
Power consumption 1	.55kW (3W in Eco mode)	
Noise Level 5	50dB(A)	
-	Active glasses systems and polarization systems on silver screens are supported. Color separation systems are not supported.	
Safety requirements C	Class 1 risk group 3	
User interface	Fouch Display and / or web-based	
Notes *	*projector configuration with ICP-D; contact Barco service for the list of supported brands	

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BARCO

B-lens HC 1.65-2.60 (1.38" DMD) / 1.82-2.86 (1.2" DMD) / 2.32–3.66 (0.98" DMD)



This product is an option of the following products

DP2K-17BLP, DP2K-19B, DP2K-23B, DP2K-23BLP, DP2K-32B, DP2K-36BLP, DP4K-17BLP, DP4K-19B, DP4K-22L, DP4K-23B, DP4K-23BLP, DP4K-30L, DP4K-32B, DP4K-36BLP, DP4K-45L, DP4K-60L, SP4K-12, SP4K-15, SP4K-20, SP4K-25, SP4K-35, SP4K-40, SP4K-55, Thor

Dolby[®] Integrated Media Server IMS3000



A ROBUST PLATFORM FOR TODAY, THE RIGHT INVESTMENT FOR TOMORROW.

Built on a proven platform, the IMS3000 provides you with cost-effective and reliable performance, backed by Dolby's industry-leading technology and support.

The IMS3000 comes with a robust feature set, flexible storage options, and an exclusive scalable design built on a framework ready for tomorrow.

Now offered with audio processing disabled, the IMS3000 can be paired with any external processor such as the Dolby CP950, Dolby CP850, or activate the internal audio processor with a feature activation license.

Easily enable the main audio processor* (5.1 and 7.1), or unlock the full power of Dolby Atmos* to deliver unforgettable sound experiences to your audiences.

A specific IMS3000 model (IMS3-L-NB) is now offered for cinema LED wall applications (consult the price list for details).

The IMS3000 remains the platform of choice for current and next generation server developments.

DOLBY INTEGRATED MEDIA SERVER IM3000 FEATURES

- Low cost of ownership (maintenance, power consumption, simplified system design)
- Playback for SMPTE and INTEROP digital cinema packages (DCP) at bit rates up to 500 Mbps
- Web-based UI allows easy access from anywhere on the theatre network
- Access the UI via Bluetooth from a tablet. Get the app "Cinema Server Control" on the Google Play or Apple Store. (requires purchase of separate USB Bluetooth adapter that is plugged into IMS3000).
- Single-board design
- Hot-swappable hard drives
- Scan network for content to ingest
- Drag-and drop scheduler
- Drag-and-drop playlist builder
- Support for accessibility products including Dolby Fidelio and CaptiView or other SMPTE ST430-10 devices

- Dolby and RealD[®] ghost busting (user selectable)
- Ingest through eSATA, USB 3.0, or Ethernet (up to 500 Mbps)
- RealD(R) ghost busting for polarized 3D systems.
- 6 × GPO
- Linear timecode (LTC) output
- Live-event Ethernet stream support
- Internal scaling and de-interlacing up to 4K
- JPEG 2000, MPEG-2, H.264 decoding
- 4K 60 fps (On select NEC projectors and LED walls)
- DCI-compliant
- Play from Shipping Drive
- HDMI 2.0 4K 60fps with HDCP 2.2
- HDMI Rec.2020 input to P3 color gamut conversion
- HDMI 4K downscaling to 2K
- Dolby Pngest
- Play while ingest
- Ingest while IMS3000 is powered down**

** This feature is only available with the NAS as main storage option (NAS-Q1)

^{*}License purchase required

^{***} Contact customer support for list of supported NAS devices and models.

Dolby Integrated Media Server IMS3000

l/Os

- 3 × GB Ethernet (1000Base-T/RJ-45)
- 1 × eSATA 3 Gbps
- 1 × USB 2.0
- 2 × USB 3.0
- Dual 3G SDI Inputs
- 1 × HDMI[®] 1 (Up to 4K 60 fps)
- 8 × AES-3 audio pairs (2 × RJ-45)
- 2 x AES-3 Auxiliary Outputs
- 2 x AES-3 Auxiliary Inputs
- 1 x Dolby Atmos Connect output with loopback (AES67 Protocol Only)
- 4 × GPI (1 × RJ-45)
- 6 × GPO (1 × RJ-45)
- LTC output
- 3 × hot-swappable removable 2.5" HDDs
- Mini DisplayPort console out (no UI)
- Dolby Remote Fader Port for use with optional CAT868

DCP PLAYBACK

- 2K up to 120 fps
- 4K up to 30 fps (60 fps on select NEC projectors)
- Bit rates up to 500 Mbps
- 12-bit 4:4:4 XYZ' for all formats
- Support of SMPTE and INTEROP formats
- Internal subtitle engine, or integrate with a projector for CineCanvas subtitle rendering
- DCI-compliant
- JPEG2000, MPEG2 and H.264 Playback

MPEG-2/H.264

- 720p 60, 1080i 60, and 1080p 60
- Bit rates up to 50 Mbps
- 4:2:0 8-bit color

VIDEO PROCESSING FEATURES

- Color-space conversion—supports YCbCr601, YCbCr709, REC 709, XYZ', YCxCz
- Deinterlacing
- Scaler up to 4K

**Contact support for list of qualified bluetooth dongle

The English version of this document is the only legally binding version. Translated versions are not legally binding and are for convenience only. Specifications are subject to change without notice.

This documentation applies to Model CID1002

Dolby Laboratories, Inc. 1275 Market Street, San Francisco, CA 94103-1410 USA dolby.com

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AUDIO PROCESSING FEATURES (REQUIRES ENABLEMENTS)

- Dolby Surround 7.1 and 5.1 playback
- Dolby Atmos rendering to Dolby Surround 7.1 on base configuration units
- Dolby Atmos rendering up to 64 speakers with Full Atmos enablement
- Dolby Digital Plus
- Dolby Digital (AC-3)
- TrueHD Audio Support Consumer Atmos on HDMI Input
- 44.1 kHz, 48 kHz 96 kHz support at 16, 20 and 24 bit
- AES67
- Alternative Content Surround Processing
- Raised Cosine equalization, 1/12th octave resolution
- Internal crossover supports up to 4-way loudspeakers

CONTROL

- Web-based user interface
- Bluetooth support for control from a mobile device (Android and iOS)**
- Mini DisplayPort console out (debug console only)
- Third-party TMS and NOC systems
- API documentation available on request

SECURITY

- DCI-compliant forensic watermarking
- FIPS 140-2 (Level 3 security certified)

POWER CONSUMPTION

• <70 W

STORAGE

- Internal—3 × 2.5" 1 TB hard disk drives (RAID 5 Configuration) Approximately 1.8 TB of user storage
- Internal—3 x 2.5" 2TB Solid State Drives (RAID 5 Configuration) Approximately 3.6 TB of user storage
- IMS3000 + Main Storage NAS 4 x 3.5" 4TB hard disk drives
- RAID 5 configuration). Approximately 10.5 TB of user storage No internal drives are used in the IMS3000 and the NAS can ingest when the IMS3000 is off.
- IMS + Additional Storage NAS -(This option uses the IMS internal storage and an external storage NAS but does not support offline ingest to the NAS).

NAS upgrade for Dolby IMS3000



- 1RU Rack Mount NAS upgrade for Dolby IMS3000
- 1RU rack mount NAS storage device with pre-RAIDed HDDs (4x4TB) that results in approximately 10.5TB of storage. Use this to upgrade an existing IMS3000s to the NAS only storage configuration.

Dolby[®] Cat. No. 868 Remote Fader for the CP750

Issue 1

Part Number 9110360

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The Cat No. 868 Remote Fader



The Cat. No. 868 Remote Fader includes the fader knob and level display shown in Figure 1.

Figure 1 The Cat. No. 868 Remote Fader

1 Guidelines for Use

Only one Cat. No. 868 remote unit can be used with a CP750.

The combined length of cable connecting the remote unit to the CP750 should not exceed 100 m (300 ft).

As soon as you connect the remote unit, it is live and communicates with the CP750. A level adjustment made on either changes the display on both.

2 Installation

The Cat. No. 868 Remote Fader can be mounted on a wall or in a console, or can stand alone.

Installing the remote fader consists of these processes:

- Removing the Housing
- Connecting the Interface Cable
- Reattaching the Housing
- Connecting to the CP750

2.1 Removing the Housing

To remove the housing:

- 1. Remove the four screws from the corners of the front panel. Store the screws nearby.
- 2. Remove the rear housing.



Caution: Do not touch circuit board components. Static electricity can damage components.

2.2 Connecting the Interface Cable

Follow these steps:

- 1. Select the cable you intend to use to connect to the CP750. Use a Cat 5 cable or better.
- 2. Slide a rubber or neoprene grommet or conduit bushing onto the cable to prevent wear on the cable from the metal edge of the hole you create.
- Make a hole in the housing for the interface wire. The diameter of the hole you make should be the same as the diameter of the cable grommet or conduit bushing.
 We recommend you place the hole on the bottom if the remote fader will be mounted, or on a side if the fader will stand alone.
- 4. Thread the interface wire through the hole in the housing and connect an RJ45 connector to the end of the wire.
- 5. Plug the newly wired connector into J1 on the remote fader cirucit board.
- 6. Using the two holes in the cicuit board along with the included wire tie, secure the cable as shown in Figure 2.

Figure 2 Circuit Board Interface Cable Connection

2.3 Reattaching the Housing

Secure the front panel to the housing with the screws that were removed in Step 1.

2.4 Connecting to the CP750

To connect the remote to the CP750:

- 1. Attach an RJ45 connector to the loose end of the interface cable.
- 2. Plug the newly wired connector into the **Remote** port on the CP750.

Your remote fader is ready to use.







USVSD 110



USVSD110

Schrack-Info

- Automatic Voltage Regulation (AVR)
- Superior protection
- High efficiency
- High availability
- Versatility
- Advanced communications

GENIO Flex Plus Dual is available with sinusoidal digital power output between 1100VA and 3000VA. Using top-notch communication and connection technologies, it is the ideal solution for high-end customers seeking high levels of reliability and extreme versatility of the power supply system. GENIO Flex Plus Dual means top safeguarding of peripherals, conventional servers and network backup systems. GENIO Flex Plus Dual has a functional, modern design and includes cutting-edge features. The UPS provides efficiency levels of up to 98%. It has an output power factor of 0.9.

Superior Protection

The automatic voltage regulator (AVR) provides protection from surges, overvoltages and undervoltages, without battery intervention. Reduced battery usage ensures that the battery set is 100% available for mains power supply failures and is able to provide greater autonomy. EMV filters provide then provide further protection from voltage surges and transients. When the mains power supply fails, the load is powered by the inverter



USVSD 110

and receives a perfectly sinusoidal supply for maximum power continuity and reliability.

🖊 High Availability

The EnergyShare socket allows load shedding and the shutdown of less sensitive peripheral devices to extend battery runtime for critical loads.

Hot Swap: batteries can be removed via the front panel for easy and safe UPS maintenance. For business continuity applications requiring long battery runtimes, battery autonomy can be extended up to several hours using ER models (versions 2200 and 3000) fitted with more powerful battery chargers. Battery test facility to detect deterioting battery performance. Deep discharge protection to reduce battery ageing.

Versatility

GENIO Flex Plus Dual can be installed as a tower or in 19" rack cabinets. The display panel in the front panel can be easily removed and rotated to suit the type of installation required. GENIO Flex Plus Dual is equipped with an emergency power off (EPO) contact that allows for remote shutdown in emergency situations. Cold Start function to allow the UPS to power up with no mains power supply present. Vision Dual models have a backlit LCD display providing UPS status information, load and battery performance.

Page



🟉 GENIO Flex Plus Dual

Advanced Communications

- Advanced multi-platform communications for all operating systems and network environments: UPSMon monitoring and shutdown software is available for free download at www.ups-technet.com for the operating systems Windows 10, 8, 7, 2008, Vista, 2003, XP, Linux, Mac OS X, Sun Solaris, Linux, VMWare ES X and other Unix operating systems
- USB or RS232 serial port interface (selectable)
- Expansion slot for SNMP interface board
- UPS status, measurements, alarms and input, output and battery parameters available on LCD display



Battery Boxes



GENIO Flex Plus Dual

Autonomy Times

Order no.	Max. Apparent Power	Max. Effective Power	Autonom	Overall Weight	
			Typical Load *	Full Load * *	
USVSD110	1100VA	990W	11 min.	6min.	16.5kg
USVSD150	1500VA	1350W	11 min.	6min.	17.5kg
USVSD220	2200VA	1980W	12min.	7min.	28kg
USVSD220 +USBB72A3A	2200VA	1980W	28min.	18min.	53kg
USVSD220 +USBB72M1A	2200VA	1980W	48min.	32min.	66kg
USVSD220 +2 USBB72M1A	2200VA	1980W	89min.	60min.	104kg
USVSD220ER +USBB72B1 (tower)	2200VA	1760W	129min.	80min.	115.5kg
	with load 10	00VA 700W:		183min.	
	with load 150	00VA 1000W:		116min.	
USVSD300	3000VA	2700W	12min.	6min.	31.5kg
USVSD300 +USBB72A3A	3000VA	2700W	20min.	13min.	56.5kg
USVSD300 +USBB72M1A	3000VA	2700W	32min.	22min.	69.5kg
USVSD300ER + 2x USBB72M1 (tower)	3000VA	2400W	50min.	32min.	107.5kg
USVSD300ER + USBB72B1 (tower)	3000VA	2400W	92min.	55min.	116.5kg
USVSD300ER + 2 USBB72B1 (tower)	3000VA	2400W	199min.	130min.	216.5kg

 * Typical Load: Autonomous Time calculated with 75% load [VA] with Power factor 0.66

** Full Load: Autonomous Time calculated with 100% load [VA] with Power factor 0.7 $\,$

🟉 Technical Data

Models	USVSD110	USVSD150	USVSD220	USVSD220ER	USVSD300	USVSD300ER
Power	1100VA / 990W	1500VA / 1350W	2200VA / 1980W	2200VA / 1760W	3000VA / 2700W	3000VA / 2400W
Input						
Nominal voltage		220-230-240VAC				
Voltage range withoutbattery intervention			V _{in} 162-	290VAC		
Maximum permitted voltage			30	V0V		
Nominal frequency		50 or 60Hz ±5Hz				
Frequency tolerance		50Hz ±5% / 60Hz ±5%				
Power factor			≥0	.98		
Current distotion			≤	7%		
Output						
Voltage distortion with linearload / with non-linear load			≤3%	/≤8%		
Frequency			Selectable: 50 or	60 or self-learning		
Waveform			Sinu	soidal		
Crest factor			2.	5:1		
Efficiency ECO and SMARTACTIVE Modes			98	.5%		
Overloadtimes			125% for 10s	, 150% for 1s		
Batteries						
Туре			VRLA AGM mainten	ance-free lead based		
Recharge time	2-4h					
Other features						
Net weight	16.5kg	17.5kg	28kg	15.5kg	31.5kg	16.5kg
Gross weight	20kg	21kg	33kg	20.5kg	36.5kg	21.5kg
Dimensions (WxDxH)	Tower: 87x4 Rack: 450 (19″)	425x450mm x425x87mm (2U)			625x450mm x625x87mm (2U)	
Packaging dimensions	24050	0x600mm		24074	0x600mm	
(WxDxH)	240x300	Jxooomm		240x700	UXOUUMM	
Protection against overvoltage	300 Joule					
Protections	Overcurrent - short circuit - overvoltage - undervoltage - temperature - excessive low battery					
Communication	USB / DB9 with RS232 and contacts / Slot for communications interface					
Input plugs	1 IEC 3	320 C 14		1 IEC 3	320 C20	
Output sockets		320 C 13			+ 1 IEC 320 C19	
Standards	European directives: L V 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibilityDirective Standards: Safe IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant				ctive Standards: Safety	
Ambient temperature	0°C/+40°C					
Recommended temperature for battery life			20°C	- 25°C		
Range of relative humidity			5-95% non	condensing		
Colour	Black					
Noise level at 1 m	≤40dBA					
Standard equipment provided	P	ower cable, serial cable	e, USB cable, safety ma	nual, quick start guide,	user manual on CD-RO	Μ



GENIO Flex Plus Dual

DESCRIPTION	AVAILABLE	STORE	ORDER NO.
GENIO Flex Plus Dual (stand alone and 19" rack mounting)			
1100VA / 990W / full load: 6min. / typical load: 11min. / 87x425x450mm (WxDxH) / 17kg			USVSD110
			USVSD150
2200VA / 1980W / full load: 7min. / typical load: 12min. / 87x625x450mm (WxDxH) / 28kg			USVSD220
			USVSD220ER
3000VA / 2700W / full load: 6min. / typical load: 12min. / 87x625x450mm (WxDxH) / 32kg			USVSD300
			USVSD300ER
Battery boxes incl. batteries			
For USPRD / USPVSD from 2.2kVA 72V 7Ah tower and rack mounting / 87x625x450mm (WxDxH) / 25kg			USBB72A3A
For USPRD220ER, USPRD300ER,USPRP220ER, USPRP300ER, USSEP220ER and USSEP300ER 40Ah tower mounting / 215x655x630mm (WxDxH) / 101kg			USBB72B1
For USPRD / USPVSD from 2.2kVA 72V 14Ah tower and rack mounting / 87x625x450mm (WxDxH) / 38kg			USBB72M1A
Accessories			
US Netman 204 Plus, plug in board TCP/IP			USNETMA204
Universal rack mount slide for UPS expandable from 48 to 82cm, uses one Height Unit, suitable for UPS from 2 HE, max. load 50kg			USRACKGUID
J-Bus/ModBUS UPS interface via RS232/RS485min. boxed version			USMULTI301
J-Bus/ModBUS UPS interface via RS232/RS485min. plug in card			USMULTI302
Plug in board for UPS alarm and status indication with potential free contacts	000		USMULTI384
Interface 8 inp. 8 outp. (programmable), Modbusmin. / boxed version			USMULTIIOB
Remote supervision panel for UPS with graphic display and RS232			USMULTIPAN
Maintenance bypass 16A (upto 3kVA UPS) - wall mounting / 220x480x50mm (WxDxH) / 2kg			USBYM
Maintenance bypass 16A (upto 3kVA UPS) - rack mounting / 260x100x600mm (WxDxH) / 4.8kg			USBYMR
PDU for UPS, 4 Outlets Schuko, 10A, 1.1m cable with IEC C14 plug, black		I	Q7533060-A
19" PDU for UPS, 8x schuko red, 1x fuse 10A, profile ALU 1U, 2m connector cable with IEC connector C14, RAL7035			IU070130
Profibus UPS interface (DP-V1, Profidrive V2 PP05)			USMULTI411



Page 39







hAP ac³

A wireless dual-band router with 5 Gigabit Ethernet ports. The right choice for most homes!





Forget about endless searching for the perfect router and scrolling through an eternity of reviews and specifications! We have created a single affordable home access point that has all the features you might need for years to come.

Next level signal

Is your old router struggling to reach every corner of your home? Well, forget about that! We have included external high gain wireless antennas with outstanding coverage. Only strong and stable wireless connection in every room from now on!



hAP ac^3 - the new standard of home access points.

Function, form, versatility

With 5 Gigabit Ethernet ports, 256 MB of RAM and quad-core CPU, hAP ac³ can satisfy even the biggest and most demanding households. With PoE support, it can power or be powered by other devices. There is a 128 MB NAND and a full-size USB port that you can use to add extra storage. The new enclosure allows mounting the device vertically or horizontally. A wall mount set is also included.



MikroTik

Reliable connection for all your devices

Stop sharing the frequency with all your neighbors! Strong **dual-chain dual-band** 2.4/5 GHz wireless for concurrent coverage will solve most interference issues in a crowded environment. This is a must-have these days! You can use the 2.4 GHz channel for older devices and the 5 GHz channel for everything else, since this frequency is less cluttered.



RouterOS – extreme versatility

Run a secure VPN from the office directly to your home, enable parental control, Quality of Service (traffic prioritization for certain needs, such as streaming), specific firewall rules, IPsec hardware acceleration, VLAN, DHCP, e-mail or SMS notifications, and so on. With RouterOS scripting you can automate a lot:

- modify queues based on bandwidth usage;
- complex trigger notifications, such as "Your bandwidth has reached X for Y minutes!"
- backups and setup of additional devices, and so much more!

If you can imagine it – RouterOS can achieve it. You can even install RouterOS on a PC or a virtual machine for even more networking experiments!

We also include a free handy tool for centralized management of all your wireless MikroTik devices – the CAPsMAN. Unlike traditional controller software, CAPsMAN doesn't require a separate device to run, it can use any existing RouterOS device in your network.

We have been making our own software since 1996. With each new version our priority remained the same: to provide users with the freedom to explore different setups and always have the right tools for the job. Without unnecessary paywalls.

Specifications

Product code	RBD53iG-5HacD2HnD	
CPU	4 core IPQ-4019 716 MHz	
Number of 1GbE ports	5	
Number of 1GbE ports with PoE-out	1	
Size of RAM	256 MB	
Size of NAND	128 MB	
Wireless	2.4 GHz 802.11 b/g/n dual-chain, 5 GHz 802.11 a/n/ac dual-chain	
Wireless regulations	Specific frequency range and power will be limited by country regulations	
Wireless antenna max gain	2.4 GHz (3 dBi), 5 GHz (5.5 dBi)	
Antenna beam width	360°	
Dimensions	251 x 129 x 39 mm	
Operating system	RouterOS, License level 4	
USB port	1 USB 2.0 port type A	
Operating temperature	-40°C to +70°C	

Powering

PoE-in	Passive PoE
PoE-out *	Passive PoE
Supported input voltage	DC jack (12 - 28 V) PoE-in (18-28 V)
Power adapter nominal voltage	24 V
Power adapter nominal current	1.5 A
Max out per port output (input < 30 V)	0.5 A
Max power consumption without attachments	12 W
Max power consumption	30 W

* If PoE-out used, then input voltage (DC jack, PoE-in) should be > = 24 V

Certification & Approvals

Certification

CE, FCC, IC

Wireless specifications

Rate (2.4 GHz)	Tx (dBm)	Rx (dBm)	Rate (5 GHz)	Tx (dBm)	Rx (dBm)
1Mbit/s	25	-100	6MBit/s	26	-96
11Mbit/s	25	-94	54MBit/s	22	-80
6Mbit/s	26	-96	MCSO	26	-96
54Mbit/s	23	-78	MCS7	21	-75
MCS0	26	-96	MCS9	19	-70
MCS7	22	-73			

Included parts



24 V 1.5 A power adapter



Base leg and pads



K-47 fastening set



HGO indoor antenna kit











Point source speaker, 2 way passive or active, with coaxial 15" LF and 3" diaphragm HF.

The P15 speaker is a powerful high-technology versatile point source.

P15 main features

 Extremely powerful (139 dB peak) point source that can be used for FOH or monitor, with or without its companion sub the L18.

Lightweight (23 kg / 51 lbs) design using custom-made 15 mm Birch and Poplar bent plywood.

Modular directivity: from the Standard 60°x60° horn to the rotating 90°x40° or Asymmetric ("PS like") pattern in a few seconds.

Quick release Magnelis® steel grille for easy access to the horn magnetic flanges.

Dual ultra-low distortion shaped bass port.

Comprehensive range of versatile, accessories for deploying the P15 in a wide variety of applications for both touring and fixed installation.



NEXO has always been well-known for its compact and very powerful versatile point source speakers, ideal in both FOH and wedge application.

This expertise is now applied to the P15, featuring a new extremely powerful coaxial 15" speaker and lots of innovation, making the P15 unique in its category.

Advanced NEXO technology included

The P15 is built around a 15 mm custom-made bent plywood shell, with poplar veneer for the inside layers and birch on the outside. The result is a robust enclosure with exceptionnally good sound quality and light weight.

The bass-reflex tuning is done through two computer optimized shaped port which guarantee ultra-low distortion even at very high level.

Two large comfortable handles on each side (on Touring version only) hold a 35 mm pole stand adapter and a Speakon® connector for discrete connection when on pole stand or in wedge monitor mode.

The back plate holds two other Speakon® connectors and a recessed switch to change the cabinet from 2-way passive to 2-way active (on Touring version only).

The Installation version is passive only and has a cable gland with a 2 core cable for audio input ensuring IP54 protection.

The internal passive filter is encapsulated in a certified resin to protect components from vibration and dust, ensuring an extra-long life.

The custom-designed common neodymium magnet coaxial driver with a 3.5" voice coil for the LF driver and a 3" diaphragm for the HF motor is the heart of the P15 and responsible both for its smooth, clean sound and enormous power.

One box fits all applications

Thanks to its fully symmetric design, there is no left or right version of the P15 and all speakers in inventory can be the same.

To match even more precisely every possible application the directivity of the P15 can be changed in seconds through the addition of an optional magnetic flanges.

As standard, the P15 uses a 60°x60° horn, but the front steel grille can be quickly removed without tools (on Touring version only) and the optional rotatable 90°x40° or Asymmetrical ("PS type") magnetic flange can be added to change the dispersion characteristics of the P15.

For each optional flange a dedicated setup is available on the NXAMP powered controller to ensure perfect coverage at any frequency. The results are even better in Active mode, where the crossover frequency can be adapted to offer the best coverage.

P15 acoustic phase response is NEXO phase signature allowing inter-operability between all NEXO speakers at all cross-over points, except for the monitor setups where latency is minimized.



Grille removed, an additional magnetic flange can be quickly fitted to change directivity from 60°x60° to Asymmetrical



Point Source Speaker

Data Sheet



NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains. NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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P15 WITH NEXO PROCESSING			
Frequency Response @-6 dB	57 Hz to 20 kHz		
Sensitivity 1W@1m	108 dB SPL Nominal		
Peak SPL@1m	139 dB Peak (Passive mode) / 141 dB Peak (Active mode)		
Operating Voltage	55 Vrms (180 Vpeak)		
HF Dispersion (according to flanges)	60°x60° (Default) - 90°x40° (with 90x40 flange) - 60°~100°x40° (with PS flange		
Crossover Frequency	57 Hz, 85 Hz, 120 Hz		
Nominal Impedance	Active: (8 Ω LF + 8 Ω HF) / Passive: 8 Ω		
Recommended Power	Active: (800 to 1350 W LF + 400 to 630 W HF) / Passive: 800 to 1350 W		
PRODUCT FEATURES			
Components	1 x Coaxial Neodymium LF 15" 8 Ohms long excursion & HF 3" 8 Ohms		
Number of ways (Touring version)	2 ways passive (2+/2- P15) or 2 ways active (1+/1- LF, 2+/2- HF) switchable		
Number of ways (Install version)	2 ways passive		
Connectors (Touring version)	4 x NL4, 4 poles connectors (1 per handle + 2 at the back)		
Connectors (Install version)	1 x Cable gland with 2 cores cable		
Rigging points	1 x universal accessory fit on each side + 1 x on the bottom		
Material	Custom made bent plywood of baltic birch and poplar		
Finish	Black or White structural paint		
Front Finish (Touring version)	Steel front grille + back mesh		
Front Finish (Install version)	Acoustic fabric fitted front gril		
Height x Width x Depth	600mm x 483mm x 352 mm (23.6" x 19.0" x 13.9")		
Weight: Net	23 kg (51 lbs)		
Operating temperature range	0°C - 40 °C (32° F - 104° F)		
Storage temperature range	-20 °C - 60 °C (-4 ° F - 140° F)		
SYSTEM OPERATION			
Recommended powering solution	NXAMP4x2mk2 Powered TDcontroller: up to 2 x P15 per channel		
Optional powering solution	DTDcontroller + DTDAMP4x1.3 : 1 x P15 per channel		
	NXAMP4x1mk2 Powered TDcontroller (Bridged): up to 2 x P15 per channel		
	NXAMP4x4mk2 Powered TDcontroller: up to 4 x P15 per channel		









LIMITED WARRANTY

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Compact Horn Loaded sub-bass, with high-excursion 18" woofer.

The L18 sub offers extremely high-output level and strong impact in a compact enclosure.

L18 main features

Extremely Powerful (140 dB peak) sub tailored to match the P15 main speaker.

Lightweight (50 kg / 110 lbs) design using custom made 15 mm bent plywood of Birch and Poplar.

Rounded shape to prevent damage in the corners and optimize air flow.

Low-frequency horn ensure maximum radiating surface and high efficiency.

Comprehensive range of versatile, accessories for deploying the L18 in a wide variety of applications for both touring and fixed installation.



To match the extremely efficient P15 and still offer the same kind of power over weight ratio, NEXO has developed the L18, a compact sub-woofer with extremely high output level.

Unique acoustic design

The L18 is built around a 15 mm custom made bent plywood shell, using poplar veneer for the inside layers and birch of the outside. The result is a plywood with exceptionally good sound quality, a very robust enclosure and a light weight.

The band-pass, Horn loaded tuning is done through two computer optimized shaped port guarantee of ultra-low distortion even at very high level.

Road-ready package

Three large comfortable handles on each side ensure easy manipulation of the L18 in any situation, particularly when used with its dedicated wheel-board and cover.

The back plate holds two Speakon® connectors that can be used for both multiple L18 daisy-chaining or to link a P15 speaker.

The strong front grill uses a very large hexa shaped design, mandatory not to restrict the air flow from the two larges tuned chambers.

A Beast of a driver

The 18" neodymium transducer with a 4.5" voice coil offers an enormous stiffness and a very high displacement capacity.

Together with the very unique cabinet design they produced a very tight sub-bass sound with a high impact.

Premium DSP Processing

Just like its companion main speaker P15, the L18 has been developed to precisely match the output power of the NXAMP4x2mk2.

The L18 takes also advantage of the new processing algorithm running on the NXAMPmk2 amplifiers. The *Advanced Dynamic Processing* optimizes the match between the L18 maximum excursion with the NXAMPmk2 output voltage capacity. The result is a highly dynamic sound while preventing to trigger the thermal limit of the driver.

Three different crossovers frequency (60, 85 and 120 Hz) using the same phase response that all other NEXO speaker will ensure a instant phase match with the P15 without hassle, or with any other sub for example.

A dedicated minimum latency setup is also available, compatible with the minimum latency monitor setups of the P15. The result is a very efficient drum-fill system, both cabinet sharing the same width.



A P15 stacked on top of a L18 offers a compact yet efficient drum fill.

Compact Horn Loaded Sub Data Sheet



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L18 WITH NEXO PROCESSING			
Frequency Response @-6 dB	32 Hz to 120 Hz		
Peak SPL@1m	140 dB Peak		
Operating Voltage	80 Vrms (180 Vpeak)		
Crossover Frequency	60 Hz, 85 Hz or 120 Hz		
Nominal Impedance	4 Ω		
PRODUCT FEATURES			
Components	1 x Neodymium 18" 4 Ohms long excursion		
Connectors	2 x NL4, 4 poles connectors.		
Rigging points	1 x universal accessory fit on each side + 1 x M20 thread for Pole Stand on top		
Material	Custom made bent plywood of baltic birch and poplar		
Finish	Black or White structural paint		
Front Finish	Steel front grille		
Height x Width x Depth	559mm x 680mm x 775 mm (22.0" x 26.8" x 30.5")		
Weight: Net	50 kg (110 lbs)		
Operating temperature range	0°C - 40 °C (32° F - 104° F)		
Storage temperature range	-20 °C - 60 °C (-4 ° F - 140° F)		
SYSTEM OPERATION			
Recommended powering solution	NXAMP4x2mk2 Powered TDcontroller: 1 x L18 per channel		
Optional powering solution	NXAMP4x1mk2 Powered TDcontroller (Bridged): 1 x L18 per channel		
	NXAMP4x4mk2 Powered TDcontroller: up to 2 x L18 per channel		







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Point source speaker, 2 way passive or active, with coaxial 12" LF and 3" diaphragm HF.

The P12 speaker is a powerful high-technology versatile point source.

P12 main features

 Extremely powerful (138 dB peak) point source that can be used for FOH or monitor, with or without its companion sub the L15.

Lightweight (20 kg / 44 lbs) design using custom-made 15 mm Birch and Poplar bent plywood.

Modular directivity: from the Standard 60°x60° horn to the rotating 90°x40° or Asymmetric ("PS like") pattern in a few seconds.

Quick release Magnelis® steel grille for easy access to the horn magnetic flanges.

Dual ultra-low distortion shaped bass port.

Comprehensive range of versatile, accessories for deploying the P12 in a wide variety of applications for both touring and fixed installation.



NEXO has always been well-known for its compact and very powerful versatile point source speakers, ideal in both FOH and wedge application.

This expertise is now applied to the P12, featuring a new extremely powerful coaxial 12" speaker and lots of innovation, making the P12 unique in its category.

Advanced NEXO technology included

The P12 is built around a 15 mm custom-made bent plywood shell, with poplar veneer for the inside layers and birch on the outside. The result is a robust enclosure with exceptionnally good sound quality and light weight.

The bass-reflex tuning is done through two computer optimized shaped port which guarantee ultra-low distortion even at very high level.

Two large comfortable handles on each side (on Touring version only) hold a 35 mm pole stand adapter and a Speakon® connector for discrete connection when on pole stand or in wedge monitor mode.

The back plate holds two other Speakon® connectors and a recessed switch to change the cabinet from 2-way passive to 2-way active (on Touring version only).

The Installation version is passive only and has a cable gland with a 2 core cable for audio input ensuring IP54 protection.

The internal passive filter is encapsulated in a certified resin to protect components from vibration and dust, ensuring an extra-long life.

The custom-designed common neodymium magnet coaxial driver with a 3.5" voice coil for the LF driver and a 3" diaphragm for the HF motor is the heart of the P12 and responsible both for its smooth, clean sound and enormous power.

One box fits all applications

Thanks to its fully symmetric design, there is no left or right version of the P12 and all speakers in inventory can be the same.

To match even more precisely every possible application the directivity of the P12 can be changed in seconds through the addition of an optional magnetic flanges.

As standard, the P12 uses a 60°x60° horn, but the front steel grille can be quickly removed without tools (on Touring version only) and the optional rotatable 90°x40° or Asymmetrical ("PS type") magnetic flange can be added to change the dispersion characteristics of the P12.

For each optional flange a dedicated setup is available on the NXAMP powered controller to ensure perfect coverage at any frequency. The results are even better in Active mode, where the crossover frequency can be adapted to offer the best coverage.

P12 acoustic phase response is NEXO phase signature allowing inter-operability between all NEXO speakers at all cross-over points, except for the monitor setups where latency is minimized.



Grille removed, an additional magnetic flange can be quickly fitted to change directivity from 60°x60° to 90°x40°



Point Source Speaker

Data Sheet



NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains. NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

P12 WITH NEXO PROCESSING			
Frequency Response @-6 dB	60 Hz to 20 kHz		
Sensitivity 1W@1m	107 dB		
Peak SPL@1m	138 dB Peak (Passive mode) / 140 dB Peak (Active mode)		
Operating Voltage	55 Vrms (150 Vpeak)		
HF Dispersion (according to flanges)	60°x60° (Default) - 90°x40° (with 90x40 flange) - 60°~100°x40° (with PS flange)		
Crossover Frequency	60 Hz, 85 Hz, 120 Hz		
Nominal Impedance	Active: (8 Ω LF + 8 Ω HF) / Passive: 8 Ω		
Recommended Power	Active: (800 to 1250 W LF + 400 to 630 W HF) / Passive: 800 to 1250 W		
PRODUCT FEATURES			
Components	1 x Coaxial Neodymium LF 12" 8 Ohms long excursion & HF 3" 8 Ohms		
Number of ways (Touring version)	2 ways passive (2+/2- P12) or 2 ways active (1+/1- LF, 2+/2- HF) switchable		
Number of ways (Install version)	2 ways passive		
Connectors (Touring version)	4 x NL4, 4 poles connectors (1 per handle + 2 at the back)		
Connectors (Install version)	1 x Cable gland with 2 cores cable		
Rigging points	1 x universal accessory fit on each side + 1 x on the bottom		
Material	Custom made bent plywood of baltic birch and poplar		
Finish	Black or White structural paint		
Front Finish (Touring version)	Steel front grille + back mesh		
Front Finish (Install version)	Acoustic fabric fitted front gril		
Height x Width x Depth	534mm x 432mm x 314 mm (21.0" x 17.0" x 12.3")		
Weight: Net	20 kg (44 lbs)		
Operating temperature range	0°C - 40 °C (32° F - 104° F)		
Storage temperature range	-20 °C - 60 °C (-4 ° F - 140° F)		
SYSTEM OPERATION			
Recommended powering solution	NXAMP4x2mk2 Powered TDcontroller: up to 2 x P12 per channel		
Optional powering solution	DTDcontroller + DTDAMP4x1.3 : 1 x P12 per channel		
	NXAMP4x1mk2 Powered TDcontroller (Bridged): up to 2 x P12 per channel		
	NXAMP4x4mk2 Powered TDcontroller: up to 4 x P12 per channel		









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4 channel Powered TD Controller

The new generation of NEXO Powered TD Controllers offers the best sound quality and massively improved processing capacities.

NXAMP4x2_{MK2} main features

Speaker controller and four channels of power amplifier.

Four high-end Balanced Analog inputs with cascaded converters for improved dynamic range, four optional digital AES/EBU, Ethersoundtm, Dantetm or AES67 input through expansion slot.

■ Four channel Class-D amplifiers using unique proprietary LSI chip for uncompromised sound quality, 4 x 2500 Watts/2 ohms.

■ Universal Power Supply (100~240 Volts) using PFC technlogogy for best efficiency and smooth current drawn.

4.3 inches color, tactile, LCD display gives an easy access to all parameters while the native dual Ethernet port offers seamless integration with NeMo remote control software.



The NXAMP4x2_{MR2} combines advanced signal processing, inherited from the first generation NXAMP, coupled with a state-of-the-art four channel Class-D amplifiers, a robust universal power supply with PFC and a comprehensive user interface.

Road proof Power Supply

With its continuous usuable mains voltage range from 100 to 240 Volts, the NXAMP4x2_{MR2} can be used worldwide and run on all kinds of power generator. Its power supply uses a PFC (Power Factor Correction) technology, ensuring that the efficiency of the power conversion is always at is best, while the current drawn is smoothed and spike-free to limit the stress on the mains network.

Flexible audio input system

Natively the NXAMP4x2_{MR2} has four high-end analog inputs using cascaded converters. This technique allows a very low output noise even with powerful amplifiers. Four digital inputs are also available through the expansion slot, offering AES/EBU, Ethersound^{Im}, Dante^{Im} or AES67 input capacity, all with an automatic analog fallback possibility.

Extended computing capacities

With its multicore ARM CPU and not less than three multicore DSPs, the NXAMP4x2_{MK2} is ready for years of new algorithms and compatibility with the latest generation software.

Unique Class-D amplifier design

While the concept of Class-D amplifiers is well know for decades, the major profesional power amplifiers manufacturers are jealously keeping their know-how in the way the power amplifier stage is driven, by more and more complex and intelligent circuits.

In this domain the NXAMP4x2_{M/2} uses a dedicated LSI (Large Scale Integrated) chip specifically designed and manufactured by Yamaha, that cannot be found in any other amplifier in the NXAMP category.

The result is an unbelievable precise and clear sound with an extremmely low distortion even at high level.

User Interface

The user interface has been massively improved regarding the first generation NXAMP. All information is now clearly displayed on a large 4.3 inches color and tactile display, while the NeMo inspired interface design makes all parameters easy to monitor or to set-up.

Communication ports

By default the expansion slot, compatible with the already existing extension cards, is fitted with a remote control card, offering 2 x RJ45 ports for remote control, firmware update and easy daisy chain between NXAMP_{MK2} devices.

The classical Serial port and GPIO port from the first generation NXAMP are also available, to communicate with the DMU (Digital Metering Unit) and the DPU (Digital Patching Unit).

Road Ready racks

As an option, Nexo offers a 4U touring rack, with front and back integrated sliding doors, that can be fitted with $2x NXAMP4x2_{MK2}$, or $1 \times NXAMP4x2_{MK2}$ plus a DPU and a DMU.



DIGITAL TD CONTROLLER NXAMP4x2 MK2

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POWER SPECIFICATIONS FOR NXAMP4x2mk2

Number of channels	4x amplifier channels, bridgeable by pairs
Max. output voltage (no load)	4x 140 Volts
Max. output power (4 channels mode /8 Ohms load per channel)	4x 1200 Watts
Max. output power (4 channels mode /4 Ohms load per channel)	4x 1900 Watts
Max. output power (4 channels mode /2 Ohms load per channel)	4x 2500 Watts
Max. output power (2 channels mode /8 Ohms load per channel)	2x 3800 Watts
Max. output power (2 channels mode /4 Ohms load per channel)	2x 5000 Watts
Power consumption (Standby)	10 Watts
Power consumption (Idle)	200 Watts
Power consumption (Standby) Power consumption (Idle)	

INPUT TO POWER OUT SPECIFICATIONS

Frequency response	+/-1 dB from 10 Hz to 20 kHz
Input impedance / Input Sensitivity	20 kΩ / +16 dBU
Dynamic range / TDH + N	110 dB unweighted / Typical 0.01% on a flat setup
Latency	580 us on a flat setup
Audio AD and DA Converters	24 bits @ 96 kHz
Processing	3 x multicore 64 bits processing DSPs
BACK PANEL FEATURES	
Analog audio inputs	4x balanced analogue inputs on XLR3
Power outputs	4x Neutrik Speakon NL-4 outputs
RS232 port	1x DB-9 connector dedicated for DPU connection
GPIO port	1x DB-25 connector with 5x Inputs and 8x Outputs or for DMU connection
Expansion slot	For networking and digital audio cards, 4x digital audio inputs and remote control
Mains sockets	1x Neutrik Powercon NAC3 (1x 20 A)

USER INTERFACE AND CONTROLS

Front panel buttons and knobs	Rotary Encoder with push and backlight, tactile screen.
Display	4.3 inches diagonal color display, WQVGA, resolution 480 x 272.

MAINS REQUIREMENTS

Universal Power Supply with Active PFC 100 - 240 Volts (50/60 Hz) Mains voltage Power consumption 1/4 max. 2 Ohms 3500 Watts

DIMENSIONS AND CERTIFICATIONS

Dimensions	2U 19" Rack, 502 mm (20") depth, 16.1 kg (35.3 lbs)
Electrical safety certification	cULus, CB (CE), CCC, PSE, KC
EMC certification	CE, FCC
Green status	Compliant with ROHS directive

EXTENSION CARDS SPECIFICATIONS	NXES104	NXDT104mk2(*)	NXAE104	
Audio format	Ethersoundtm	Dante tm	AES/EBU	
Remote control	Ethersound tm based	IP based	IP based	
Number of input channels	4	4	4	
Resolution / Sample rate	24 bits / 48 kHz	24 bits / 48 kHz	24 bits / 44.1~96	
Audio Connectors	2 x Ethercontm	2 x Ethercontm	3 x XLR	
Additional port	1 x RJ45	1 x RJ45	2 x RJ45	
Power supply	2 W from NXAMP	3 W from NXAMP	2 W from NXAMP	
Dimensions & weight	120 x 160 x 40 mm (NXAMP slot) - 200 g			
EMC certification	CE, FCC, ICES	CE, FCC	CE, FCC	
Green Status	ROHS and REACH			

*NXDT104 can be used as well, except that it is not possible to upgrade the NXAMPmk2 firmware. Default NXRM104 card should be put back for firmware update.



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NXAMP Digital Audio Input Extension Cards

NXAMPs can be fitted with EtherSound[™], Dante[™] or AES/EBU network cards.





NXES104 EtherSound[™] Network Card

Key Features

- Extracts 4 audio streams (24 bits / 48 kHz) among the 2 x 64 channels of a ES100 Ethersound[™] stream.
 IN and OUT port for simple daisy chain
- IN and OUT port for simple daisy chain without any need for an external switch.
- 3rd Ethernet port for remote control of the whole network from any NXES104 card and ASI0 streaming.

AES/EBU

NXAE104

AES/EBU and Remote Control Card

Key Features

- Receives 4 audio channels (24 bits / 44.1 - 96 kHz) in AES/EBU format.
- 2 x AES/EBU stereo input on XLR, one with AES/EBU buffered output on XLR with fail safe relay.
- 2 x switched RJ45 for remote control and daisy chain of the devices.

Key Features

- Receives 4 audio streams (24 bits / 44.1 - 96 kHz) in Dante[™] format.
- Remote control from any computer on a local area network using TCP/IP commands.
- Unique 3-port design can be used:
 As an integrated 2 port signbit quital
- As an integrated 3 port gigabit switch
 As two Dante™ redundant port plus an optional 3rd port for additional remote control

Specifications -	NXES104	NXAE104	NXDT104mk2		
DIGITAL AUDIO FORMAT					
Digital audio type Media type	Ethersound networks Dedicated Ethernet 100 Mb network	AES/EBU 110 Ohms 3 wires twisted pair with XLR connector	Dante [™] networks Standard TCP/IP over Ethernet network, minimum 100 Mb, recommended 1 Gb		
Number of channels Resolution / Sample Rate Latency	4 channels from network to NXAMP 24 bits / 48 kHz 0.10 ms	4 24 bits / 44.1 - 96 kHz 1.4 ms to 2.4 ms	4 channels from network to NXAMP 24 bits / 44.1 - 96 kHz 0.15 ms to 5.0 ms (typical 1 ms)		
REMOTE CONTROL FORM	MAT				
Network format Device addressing	Embeded in the Ethersound frame Automatic, based on Mac address	Standard TCP/IP Automatic, based on IP address with Zeroconf	Standard TCP/IP Automatic, based on IP address with Zeroconf		
FRONT PANEL FEATURE	S				
Digital audio connectors Additional port LEDs on digital audio ports LEDs on remote port	2 shielded Neutrik Ethercon RJ45 for additional remote control Tx and Rx on each port Link and activity	2 x XLR-F and 1 x XLR-M 2 x RJ45 for remote control None Link and Activity	2 shielded Neutrik Ethercon RJ45 for additional remote control Link/Act and Speed on each port Link and activity		
GENERAL SPECIFICATIONS					
Power supply Dimensions (W x D x H) Weight EMC certification Green Status	+ 3.3 Volts, 5 W from NEXO slot 120 x 160 x 40 mm (NXAMP slot) 160 g CE, FCC, ICES ROHS and REACH	+3.3 Volts, 2 W from NEXO slot 120 x 160 x 40 mm (NXAMP slot) 200 g CE, FCC ROHS and REACH	+ 3.3 Volts, 7 W from NEXO slot 120 x 160 x 40 mm (NXAMP slot) 200 g CE, FCC, ICES ROHS and REACH		

PNI-WM330

DP3976 – 01a - DI



Wallmount for P12





Contents:



Weight: 1.8 kg / 4 lb



- Read this document before using.
- Keep this document.Observe all warnings and cautions.



Dimensions:



Use:

Please, select screws and mounting location supporting 4 times the system weight. Mount the wall plate.

Place the arm in the wall plate.	Lock with the provided screw.

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PNT-HBRK12

DP3956 - 01a - DI



P12 Horizontal cradle



Contents:



Weight: 1.5 kg / 3.3 lb

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See PLADAPT Product Data Sheet for the use

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24730 Wind-up stand »3000«

Product variant

24730-000-55 - black

Data

Base diameter	1550 mm
EAN	4016842117062
Height	from 1,405 to 3,000 mm
Height adjustment	hand crank with push-button system and locking screw
Leg construction	tube legs with double cross braces
Material	aluminum
Max. load capacity*	40 kg
Number of legs	3
Product Category	Starline
Rod combination	3-piece folding design
Size when folded	1,390 x 200 x 165 mm
Special features	steel extension tubes; push-button system and hand crank avoid uncontrolled reverse motion; locking screw provides additional safety; zinc die-cast connecting parts
Tube end(s)	diameter 35 mm, integrated threaded bush M10 for crossbars
Туре	black
Weight	12 kg



Professional light and speaker stand with an innovative dual crank mechanism. A low base height of 1,405 mm ensures easy, ergonomic positioning of the load. The 3-piece tube combination reaches a height of 3 meters. Lifting and lowering the load is user-friendly, safe and reliable via two separate crank gears. The integrated »Auto Lock« system prevents sudden lowering of the load by automatic locking. The crank can also be removed to prevent unauthorised use. Since no cables are needed, the stand is completely maintenance-free. The robust stand focuses on stability and steadiness, so that the 5° stability test according to DIN 56950-3 with a load capacity of 40 kg is easily realised. The compact transport dimensions are 1,390 x 200 x 165 mm and the weight is approx. 12.0 kg. The integrated M10 threaded bush allows additional trusses or individual spotlights to be mounted directly.



PNT-2CASE15

DP5572 - 01 - DI



Flight Case for 2x P15





Weight: 32 kg / 71 lb

Dimensions:



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LNT-WB18

DP5566 - 01 - DI



Wheelboard for L18



Contents:



Weight: 8 kg / 17.6 lb



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Dimensions:



Use:



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bulk cables

Dca



multicore speaker cable - LHC

- 1.5 6.0 mm² FRNC DCA
- extreme low heat of combustion (LHC)
- by a tubular overall jacket
- fine stranded bare copper wires
- flame retardant and non corrosive (FRNC)
- CPR class Dca s2, d2, a1 acc. to EN50575

The characteristic feature of this speaker cable is the extremely thin and tubular overall jacket, which has two advantages: beside the costs, also the heat of combustion is kept down - an important criteria in several building installations.

design

FRNC

conductor core insulation twisting outer jacket stranded bare copper LSZH, different colors n cores stranded to cable core FRNC, tubular extruded

mechanics

min. bending radius
working temperature
flame retardancy
halogen-free

5x overall diameter -30°C / +70°C acc. to IEC 60332-1-2 acc. to IEC 60754-2

electric

insulation resistance > 200 l test voltage 2000 V max. operating voltage 300 V

> 200 MΩ x km 2000 V 300 V

order code	no. of cores x cross section mm ²	cond. construction mm	conductor resistance Ω/km	outer Ø mm	heat of combustion kWh/km
SCH2015-D	2 x 1.5	30 x 0.25	11.8	7	165
SCH2025-D	2 x 2.5	50 x 0.25	7	7.6	175
SCH2040-D	2 x 4.0	56 x 0.30	4.35	9.2	230
SCH2060-D	2 x 6.0	84 x 0.30	3	10.6	280
SCH4025-D	4 x 2.5	50 x 0.25	7	8.8	251
SCH4040-D	4 x 4.0	56 x 0,30	4.35	10.7	363
SCH4060-D	4 x 6.0	84 x 0.30	3	12.8	480

order code	cable color	weight kg/m	copper weight g/m	standard lengths m
SCH2015-D	black	0.06	30	20 / 30 / 50 / 100 / 200 / 300 / 500
SCH2025-D	black	0.08	50	20 / 30 / 50 / 100 / 200 / 300 / 500
SCH2040-D	black	0.12	80	20 / 30 / 50 / 100 / 200 / 300 / 500
SCH2060-D	black	0.17	120	20 / 30 / 50 / 100 / 200 / 300 / 500
SCH4025-D	black	0.14	100	20 / 30 / 50 / 100 / 200 / 300 / 500
SCH4040-D	black	0.23	160	20 / 30 / 50 / 100 / 200 / 300 / 500
SCH4060-D	black	0.32	240	100 / 200 / 300

technical specifications are subject to change

