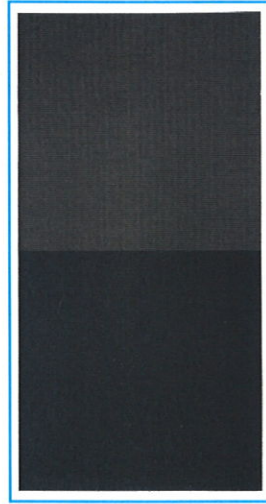
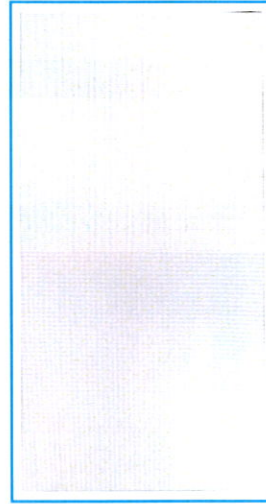


2 High Contrast Ratio

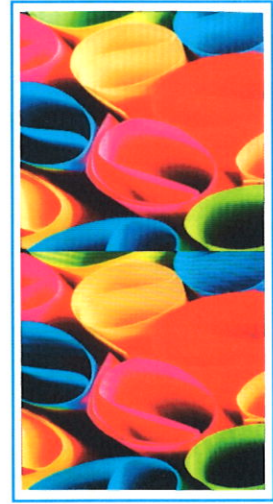
The MG7 Supreme P4.8, adopts exclusive customized matte surface 1818 blackface diamond LED with high stability, which use black matte pouring sealant and surface nano microsphere technology, color diffusion and mix uniformly, besides its mask compatible for indoor and outdoor with shade can reduce the reflection rate greatly, and the contrast ratio reaches 6000:1. The contrast is 1.5 times of traditional products under the strong light environment. Meanwhile, cabinet flatness and consistency is also excellent, which can improve the comfort of observation of equipment and human eye, also weaken moire phenomenon to the greatest extent.



Black Color Contrast



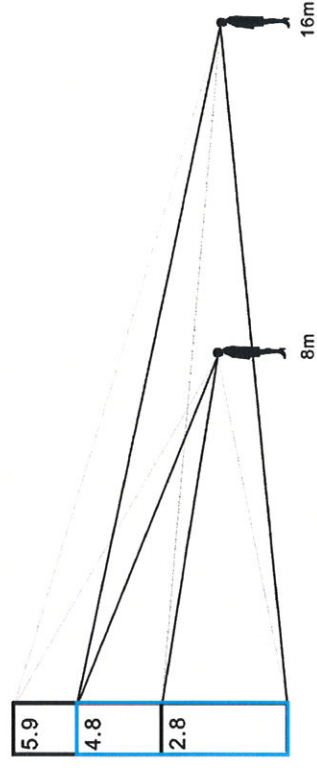
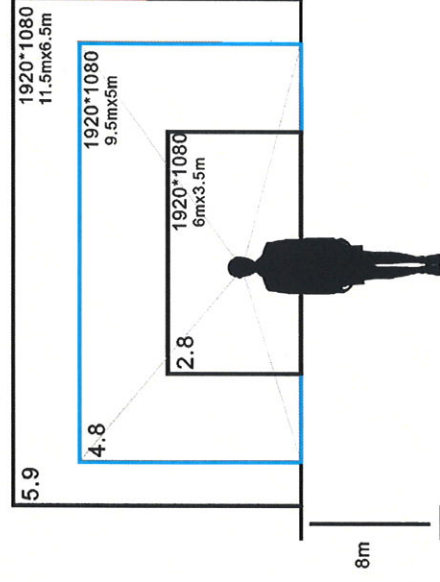
White Balance Contrast



Display Video Contrast

3 The Best Pixel Pitch Both for Indoor and Outdoor Events

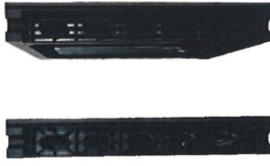
The pixel density of the MG7 Supreme P4.8 can reach up to 43264 dots/m², and its minimum comfortable viewing distance is 8m. On the requirement of uniform HD, compared to P3 (or smaller pixel pitch) and P5(or bigger pixel pitch), our MG7 P4.8 LED display has absolute advantages on the ratio between events venue and the screen size, also has more comfortable viewing angle for audiences.



Function 2: Used as Dance Floor

The MG7 Supreme P4.8, has integrated internal structure and strengthens structural design for both borders, and its safety bearing capacity can reach 800kg/0.03m². With its outstanding bearing capacity, MG7 P4.8 can be used as dance floor.

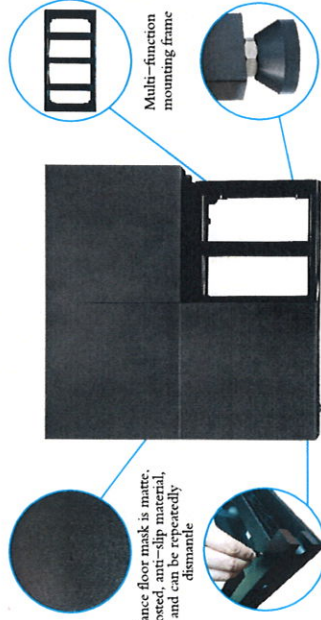
1 Used as dance floor directly



MG7 P4.8 passed the bearing test, safety bearing capacity can reach 800kg/0.03m²

Compared to MGS P5.9(left), MG7 P4.8(right) has strengthened structural design for both borders, more security and stability when used as dance floor.

2 Used as dance floor, compatible with multi-function mounting frame



Dance floor mask is matte, frosted, anti-slip material, and can be repeatedly disassemble

Multi-function mounting frame

Adjustable feet

Tapered pin is used to fix the cabinet to the multi-function mounting frame

Function 3: Used as Sky Curtain

The MG7 Supreme P4.8 with unique structure, light and thin cabinet, compatible used with Magic Stage multi-function mounting frame and TRUSS frame, can realize creative sky curtain.

1 Rental sky curtain



Using double-sided hook to connect the Magic Stage multi-function mounting frame and TRUSS frame.

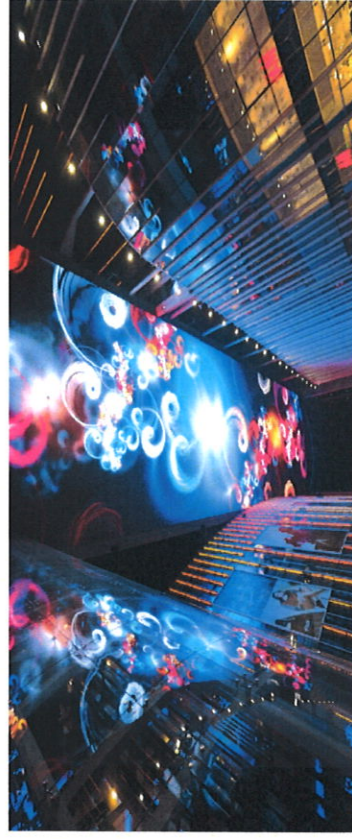


Using Magic Stage multi-function mounting frame to make sky curtain structure.



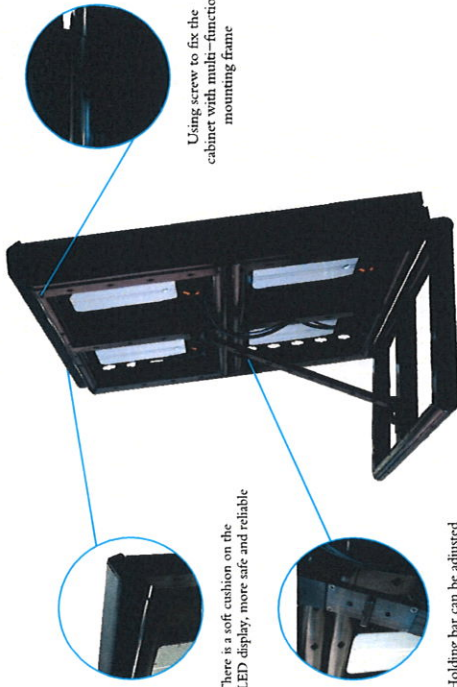
By using multi-function U shape connector to install the cabinet to the Magic Stage multi-function mounting frame, to realize sky curtain installation.

2 Fixed sky curtain



Function 4: Used as Stadium Screen

By using the MG7 supreme P4.8 and the multi-function mounting frame, it can realize the application of stadium LED display. And there is a soft cushion on the top of LED display, to protect the athletes when they collide with LED display accidentally. The mounting frame can be adjusted in three angles 75°, 80°, 90° freely to ensure the best viewing angle.



There is a soft cushion on the top of LED display, more safe and reliable

Using screw to fix the cabinet with multi-function mounting frame

Holding bar can be adjusted



Function 5: Small Advertising LED Display, Showcase LED Display

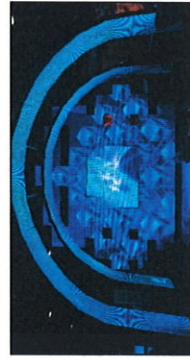
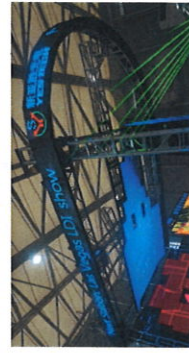
Small Advertising LED Display, Showcase LED Display MG7 P4.8 the supreme of Magic Stage series have the high contrast ratio, high brightness, excellent effect, clear and delicate picture and rich color, strong ability to adapt to different environments, simple installation, convenient maintenance, it is the first choice of outdoor small advertisement screen and window screen.



The MG7 Supreme P4.8: Creative Implementor

The MG7 Supreme P4.8 outdoor with unique multi holes design, together with easy operating connectors, can make multiple creative shapes such as $\pm 15^\circ$ Curving, vertical, horizontal, front and back dislocated installation. Apply with right-angle LED display, triangle LED display and sector LED display to achieve a wide range of creative designs, not only can make flat LED display, dislocation and arch shape, but also the flat and curve polygon, sector, etc. Break through the limitation of a traditional stage design idea, MG7 P4.8 Magic Stage is the implementor of innovation designs.

1 Inner & Outer curve



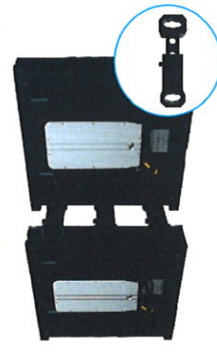
2 Dislocation

Horizontal dislocation



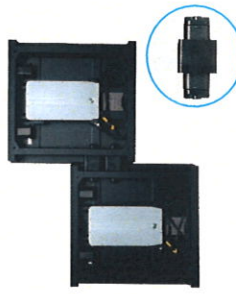
Utilize the hole position to do the horizontal dislocation, using the vertical connectors to join.

Front and back dislocation

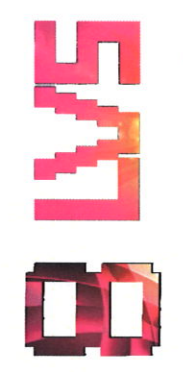


Utilize the push bar to realize the front & back dislocation, adjust the push bar to stretch the length.

Vertical dislocation

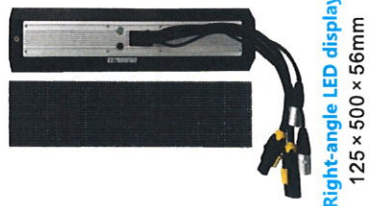


Utilize the hole to do the vertical dislocation, connect them with the horizontal connectors.



3 Applied with right-angle LED display MG11

A



Right-angle LED display
125 x 500 x 56mm



Right-angle LED display
connection drawing

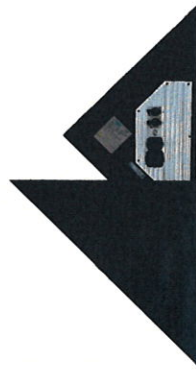
B



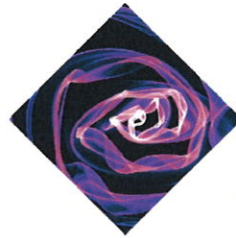
Connection drawing between
Right-angle LED display and Magic
Stage MG7 P4.8 LED display

4 Applied with triangle LED display MG12

A

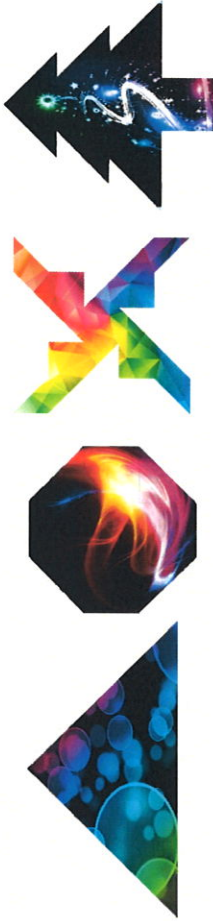


Triangle LED display
707 x 354 x 79mm



Ichthyography Connection drawing
between two triangle LED displays

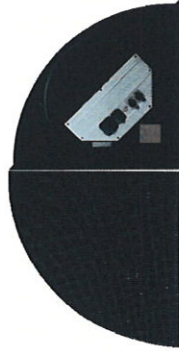
B



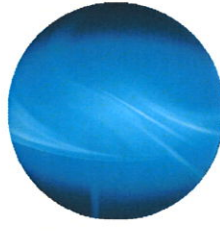
Ichthyography Connection drawing between Triangle LED display and Magic
Stage MG7 P4.8 outdoor LED display

5 Applied with sector LED display MG13

A



Sector LED display
500 x 500 x 79mm



Ichthyography Connection drawing
between two sector LED displays.

B

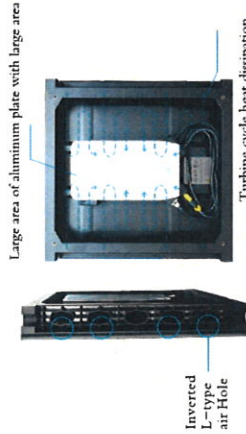


Ichthyography Connection drawing between sector LED display and
Magic Stage MG7 P4.8 outdoor LED display

Other Features

1 Excellent heat dissipation

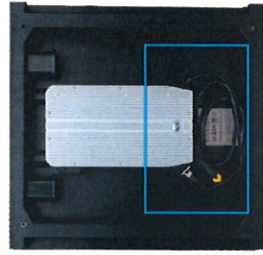
The MG7 Supreme P4.8 outdoor display is strictly control the electric current, reducing heat dissipation. There are 4 L-shaped air intake holes in 2 sides of the cabinet, with the interior turbo cycle heat dissipation system. The wind access from the back side of LED module and emerge from the back side power box, to reduce the temperature of the electronic components such as LED modules, LED lamps, driving IC and other electron components, to improve the stability of the display and enhance the life span. With the additional aluminum plate over on the back of the cabinet which make the heat dissipation to be more outstanding.



Heat dissipation figure

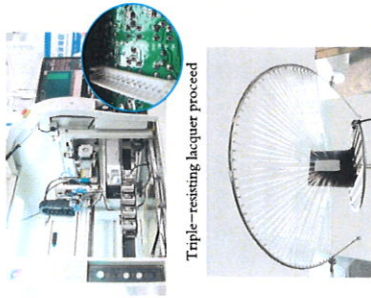
3 Humanization design

MG7 P4.8 integrated the power and signal cables in the back cover of the cabinet to improve the stability of signal transmission and completely prevent the drop of the power and signal cables. Taking a 45° angle position processing, it is more suitable for the ergonomics to easy connecting.



2 Higher IP protection

The MG7 Supreme P4.8 outdoor LED display has passed the rigorous protective processes, the IP rate is IP65 (completely preventing the dust access / water wash), it is not fearing of any terrible weather.



Water pouring test

4 Fast Maintenance

One single person can easily take out and replace any cabinets from the whole display in 50 seconds without affecting the whole display. It is easier to replace cabinets than repairing the LED module during the live events. Also it has no bad influence for live events.



Magic Stage Series Technical Parameters

Item	MG7-5M4H-FQ	MG7-5M4H-FQ	MG7-5M4H-FQ	MG7-5M4H-FQ	MG7-5M4H-FQ	MG7-5M4H-FQ
Module	YES1818 (black)	YES1818 (black)	YES1818 (black)	YES1818 (black)	YES1818 (black)	YES1818 (black)
LED Encapsulation	YES1818 (black)	YES1818 (black)	YES1818 (black)	YES1818 (black)	YES1818 (black)	YES1818 (black)
Pixel Pitch(mm)	4.8	4.8	4.8	4.8	4.8	4.8
Module Resolution (W×H)	52×52	26×104	26×104	26×104	26×104	26×104
Module Size(mm)	250×250	250×250	250×250	250×250	250×250	250×250
Module Quantity per Cabinet (W×H)	2×2	2×2	2×2	2×2	2×2	2×2
Cabinet Size(mm)	500×500×73	500×500×73	500×500×73	500×500×73	500×500×73	500×500×73
Cabinet Area(m²)	0.25	0.25	0.25	0.25	0.25	0.25
IP Grade	Front IP65 Rear IP54	Front IP65 Rear IP54	Front IP65 Rear IP54	Front IP65 Rear IP54	Front IP65 Rear IP54	Front IP65 Rear IP54
Cabinet Evanes(mm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Pixel Density(dot/m²)	43264	43264	43264	43264	43264	43264
Cabinet Resolution (W×H)	104×104	104×104	104×104	104×104	104×104	104×104
Weight(kg/cabinet)	6.5	6.5	6.5	6.5	6.5	6.5
White Balance Brightness (CD/m²)	4000-4500	4000-4500	4000-4500	4000-4500	4000-4500	4000-4500
Single LED Brightness/ Chroma Calibration	YES / YES	YES / YES	YES / YES	YES / YES	YES / YES	YES / YES
Color Temperature(K)	8000±300K	8000±300K	8000±300K	8000±300K	8000±300K	8000±300K
Horizontal / Vertical Viewing Angle	160° / 120°	160° / 120°	160° / 120°	160° / 120°	160° / 120°	160° / 120°
Pixel center distance deviation	<3%	<3%	<3%	<3%	<3%	<3%
Brightness/Color Uniformity	≥97% / ±0.003 Cx, Cy	≥97% / ±0.003 Cx, Cy	≥97% / ±0.003 Cx, Cy	≥97% / ±0.003 Cx, Cy	≥97% / ±0.003 Cx, Cy	≥97% / ±0.003 Cx, Cy
Contrast Ratio	6000 : 1	6000 : 1	6000 : 1	6000 : 1	6000 : 1	6000 : 1
Working Voltage	AC 100-240V (50-60Hz)	AC 100-240V (50-60Hz)	AC 100-240V (50-60Hz)	AC 100-240V (50-60Hz)	AC 100-240V (50-60Hz)	AC 100-240V (50-60Hz)
Power Consumption (w/m²)	600/200	720/240	600/200	600/200	600/200	600/200
Scanning Method	1/7	1/7	1/7	1/7	1/7	1/7
Driving Method	Constant drive	Constant drive	Constant drive	Constant drive	Constant drive	Constant drive
Frame Frequency (Hz)	50 & 60	50 & 60	50 & 60	50 & 60	50 & 60	50 & 60
Refresh Frequency (Hz)	1920(Reference, adjustable)	1920(Reference, adjustable)	1920(Reference, adjustable)	1920(Reference, adjustable)	1920(Reference, adjustable)	1920(Reference, adjustable)
Control system	Nova Star, Mooncell, Linn	Nova Star, Mooncell, Linn	Nova Star, Mooncell, Linn	Nova Star, Mooncell, Linn	Nova Star, Mooncell, Linn	Nova Star, Mooncell, Linn
Life span (h)	80000	80000	80000	80000	80000	80000
Working/Storage Temperature (°C)	-20~45 / -30~60	-20~45 / -30~60	-20~45 / -30~60	-20~45 / -30~60	-20~45 / -30~60	-20~45 / -30~60
Working/Storage Humidity (RH)	10-90%/10-95% (No condensation)	10-90%/10-95% (No condensation)	10-90%/10-95% (No condensation)	10-90%/10-95% (No condensation)	10-90%/10-95% (No condensation)	10-90%/10-95% (No condensation)
Communication Mode	Cat 5	Cat 5	Cat 5	Cat 5	Cat 5	Cat 5
Curve Installation Degree	-15° ~ 15°	-15° ~ 15°	-15° ~ 15°	-15° ~ 15°	-15° ~ 15°	-15° ~ 15°
Minimum Circle Diameter(mm)	3.8	3.8	3.8	3.8	3.8	3.8
Certification	CE FCC ETL	CE FCC ETL	CE FCC ETL	CE FCC ETL	CE FCC ETL	CE FCC ETL

Ascender 48 - 4K - PL - Ref. ASC4806-4K-PL

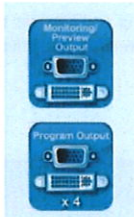
Powerful multi-screen Seamless Switcher based on **Analog Way's LiveCore™** platform, state-of-the-art processing, exclusive Perspective Layers feature, Soft Edge and 4K capabilities for top-notch presentations



INPUTS



OUTPUTS



FEATURES

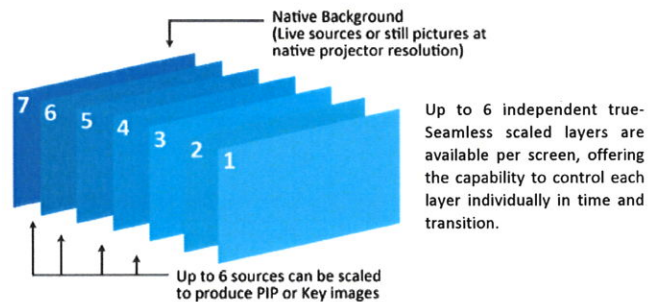


Ascender 48 - 4K - PL at a glance

- ▶ LiveCore™ platform
- ▶ 12 Seamless inputs and 42 input plugs (incl. 3 x 4K HDMI plugs)
- ▶ Input format up to 4K 30Hz 4:4:4
- ▶ Output format up to 4K 30Hz 4:4:4, 4K 60Hz 4:2:0 and four quadrant 4K 60Hz 4:4:4
- ▶ Independent Preview/Mosaic/Monitoring output
- ▶ Full live Preview of all sources (Preview/Mosaic/Monitoring)
- ▶ Customization of monitoring layouts (Up to 8 templates stored)
- ▶ 6 True-Seamless scaled layers or 3 True-Seamless Perspective Layers + 1 native background layer per output
- ▶ Advanced Layer Management
- ▶ Rotation capability in output (step by 90 degrees)
- ▶ Outstanding visual effects (Flying, Cut and Fill ...)
- ▶ Collaborative architecture
- ▶ Ruggedized and heavy-duty design
- ▶ User-friendly and intuitive Graphic Interface
- ▶ Remote Services
- ▶ Additive modularity (Heterogeneous link)
- ▶ Associative modularity (via Vertige™)

Option

- ▶ OPT-SPS: Swappable Power Supply
- ▶ OPT-LINK: Replacement LiveCore™ Link Cable (spare)
- ▶ OPT-KIT3xLINK: Set of 3 LiveCore™ Link Cables
- ▶ SPU001: Secure Power Unit
- ▶ 500133: Extension Warranty 2 years (5 years total)



To Control Ascender 48 - 4K - PL

- ▶ Web-based Remote Control Software (Web RCS)
- ▶ VRC300: Vertige™
- ▶ SB80-2: Shot Box² & SB124T-2: Control Box²
- ▶ AMX and Crestron Drivers

*Available on www.analogway.com



Video available on YouTube or on www.analogway.com



ANALOG WAY
Pioneer in Analog, Leader in Digital

Key features

- ▶ **12 Seamless inputs and 42 input plugs**
 - 6 x HDMI (incl. 3 HDMI 4K 30Hz)
 - 9 x DVI-I (3 DVI Dual Link included)
 - 3 x DisplayPort (4-Lanes)
 - 12 x 3G/HD/SD-SDI
 - 12 x Universal Analog (6x HD15 & 6xDVI-A)
- ▶ **4 outputs with 5 output plugs**
 - Universal Analog (HD15 & DVI-A)
 - DVI-I (DVI Dual Link available on output #1 and #3, HDMI 4K available on outputs #2 & #4 through DVI connectors)
 - 3G/HD/SD-SDI
 - Video Optical SFP module cage
- ▶ **Features & Effects**
 - Up to 6 True-Seamless scaled layers per screen / up to 3 True-Seamless Perspective Layers per screen
 - Independent Native Background
 - 144 presets memories and 144 master presets memories
 - 100 memories for frames and logos
 - Frames and Logos: fully resizable
 - True A/B mix
 - Output capability up to 2560x1600 and 4K
 - 4 Customizable display layouts: Full Preview, Live Mosaic, Monitoring and Recording
 - Display configurations: Mixer, Hybrid, Hard Edge & Soft Edge
 - Additive modularity: combine 2 **Ascender 48 - 4K - PL** to share/add inputs & outputs up to 24x8
 - Associative modularity: synchronize up to 4 units to create blends with to 16 outputs
 - Layer border: Edge/Smooth/Shadow/Smooth Edge (Edge: color/width/height)
 - New tools box for layers: Transitions, Effects, Speed, Timing, Faders, Strobe, Mirror,...
 - Numerous effects: Cut, Dissolve, Slide, Wipe, Stretch, Circle, Depth, Flip, Flying Curve, Background Cut, Transparency, Luma/Chroma Key, DSK, Cut and Fill
 - Web-based Remote Control Software for multiple users: **Web RCS**
 - Remote Tools

Web RCS



- The **Web RCS** offers a user-friendly graphic interface consisting of 3 independent sections: Setup, Edit and Live. A Preconfig. mode indicates how to easily configure the device step by step.
- With dynamic snapshots of the connected sources available in the interface, the intuitive dashboard allows operators to fully prepare their shows and control them live during their events.
- An innovative Sequences mode allows easy organization of presets through drag and drop operation.

In addition to its four main outputs, **Ascender 48 - 4K - PL** features an independent Dual-Link output for monitoring purposes. This output offers versatile and customizable display options, ensuring effective monitoring and flawless show control. All images are live and can be labeled through Web Remote Control Software. Additional information on each source is also available directly on the live video windows.

Full Preview



Live Mosaic



Dimensions:

- ▶ D 21.41" x W 17.51" x H 6.97" ("Rack ears" not included)
- ▶ D 544 mm x W 444.8 mm x H 177 mm ("Rack ears" not included)

Weight:

- ▶ 19 kg
- ▶ 41.89 lbs

Power Supply:

100-240 VAC ; 4.8A ; 50/60Hz ; 285 W

Supplied with:

- ▶ 1 x Power supply cord
- ▶ 1 x Ethernet cross cable (for device control)
- ▶ 1 x MCO 10 pin connector
- ▶ 1 x Web-based Remote Control Software included and hosted on the device
- ▶ 1 x Rack mount kit (front ears and rear support)
- ▶ 1 x User Manual (PDF version)*
- ▶ 1 x Quick Start Guide*

Warranty:

3-year warranty on parts and labor back to factory.



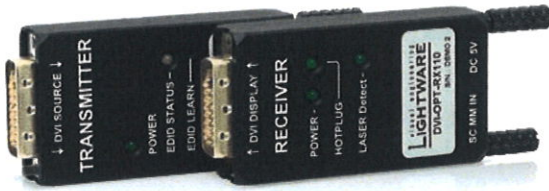
* All User Manuals and Quick Start Guides are also available on www.analogway.com

ⓘ Specifications subject to change without prior notice

All technical specifications are available on our website

DVI-OPT-TX110 and DVI-OPT-RX110

Small form factor DVI fiber extender SingleFiberTechnology – Zero delay



Part No: 9151 0001 (TX110), 9151 0002 (RX110)



Highlight Features

- DVI connector sized extenders
- Several status LEDs
- Single Fiber Technology, zero frame delay
- New and more stable SC connector avoids accidental unplugging

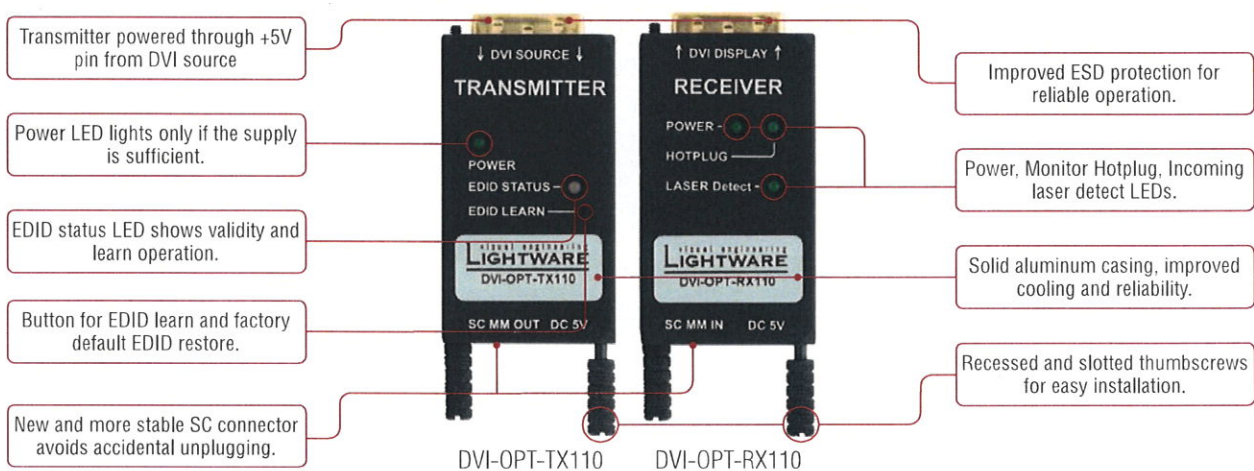
DVI-OPT-TX110 and DVI-OPT-RX110 pair is a DVI to fiber transmitter / receiver set for up to 2500 m distance transmission. Using Single Fiber Technology the DVI-D signal is transmitted over only one multimode 50/125 fiber core. Sources and display devices are galvanically isolated against ground loops and hum effects, and no delay occurs in the signal, the video image is transported without any frame latency.

Cross compatibility between Lightware fiber products is ensured thanks to our attentive design. In a standalone application DVI-OPT-TX110 and DVI-OPT-RX110 can work together simply, but with Lightware's hybrid modular matrix concept, it is even possible to connect these extender units directly to the matrix router using an MX-DVI-OPT series input or output board.

Galvanic isolation between source and display helps to avoid ground loops and hum effects. No delay occurs in the signal during optical conversion, the video image is transported without any frame latency. Powered from DVI source the DVI-OPT-TX110 transmitter does not need external power adaptor simplifying system installation. Transmitter is shipped with a preprogrammed factory default EDID with can be restored any time.

Recessed thumbscrews allow easy mounting directly to DVI receptacle by hand, or by using a flat-bladed screwdriver. This is most useful in space constraint applications, where the connectors are too close, and can be reached only from the rear side. Massive solid aluminum casing provides excellent cooling and maximum reliability.

Transmitter and Receiver Benefits



DVI-OPT-TX110 and DVI-OPT-RX110

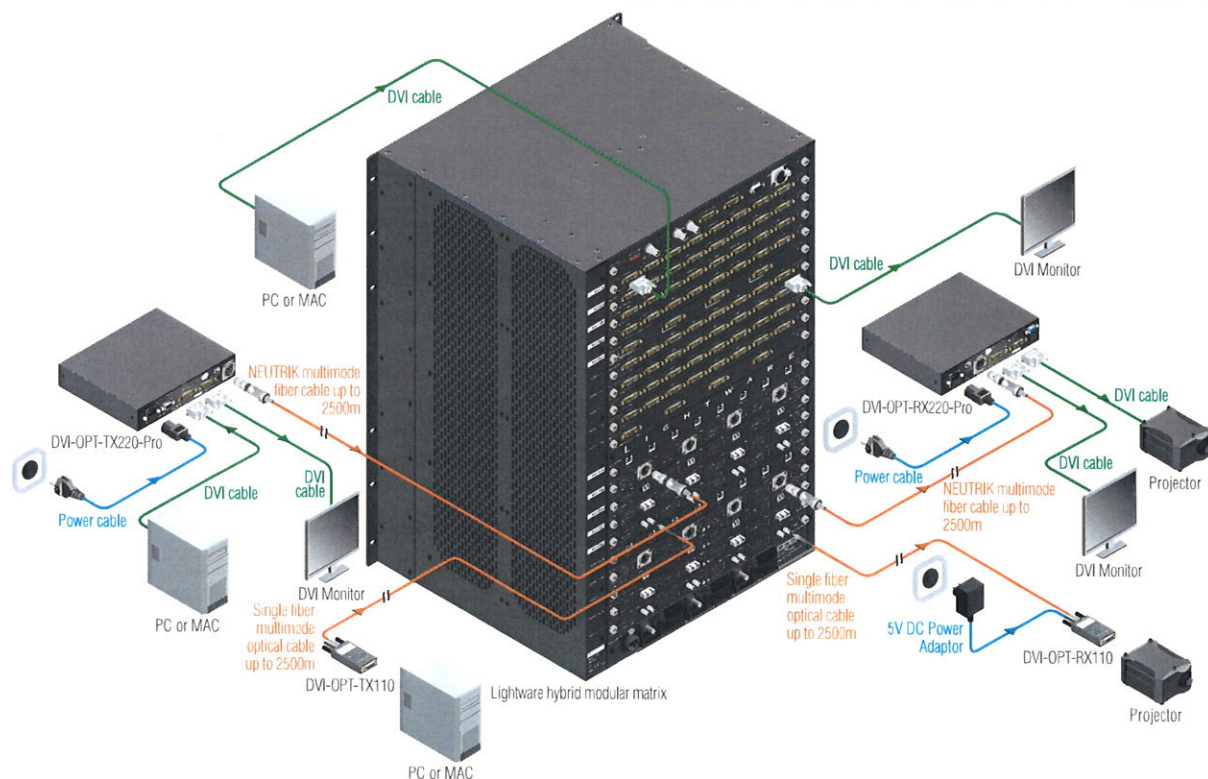
Applications

- Professional AV systems, conference rooms
- Fixed installations, Rental and Staging
- Digital signage
- Long distance lossless DVI signal transmission
- Ground loop isolation

Features

- Extends DVI-D signals with Single Fiber Technology
- 1920x1200 or 2048x1080 maximal resolutions
- Cross compatibility with Lightware Fiber devices
- Plug & Play
- Zero frame latency – No delay
- No compression
- EDID emulation in TX110
- TX Status LEDs: Accurate power detection, EDID state
- RX Status LEDs: Power, laser detect, hotplug detect
- External universal power adaptor for receiver
- Power supplied through DVI connector for transmitter
- DVI connector sized form factor
- Solid aluminum housing for professional use
- Recessed (slotted) thumbscrews
- Improved ESD protection
- Improved mechanical stability SC connectors
- Secure snap DC plug
- Restorable factory default EDID

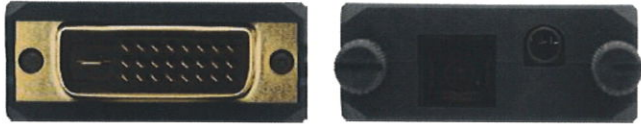
Integrated System Operation



DVI-OPT-TX110 and DVI-OPT-RX110

Connectors

TX input , RX output:	24 pole DVI-D plug
DC Power:	1.35 / 3.5 mm barrel receptacle
Fiber:	SC simplex



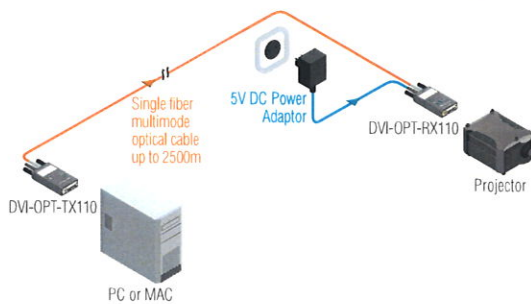
Compatibility Table

- http://www.lightware.eu/pdfs/fiber_extension_cross_comp.pdf

Maximum Extension Distances

	OM1 (62,5/125)	OM2 (50/125)	OM3 (50/125)	OM4 (50/125)
1080p@60Hz 24 bpp	250 m	600 m	1200 m	2500 m

Stand alone Operation

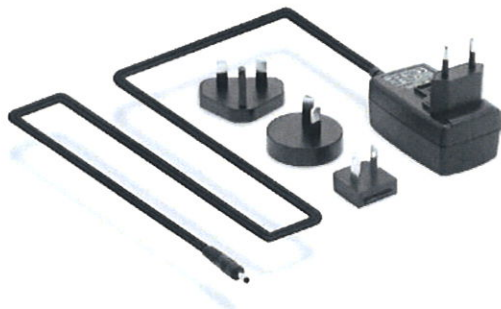


Specifications

Data rate:	1.65 Gbps per color
Max resolution:	1920 x 1200 or 2048 x 1080 pixels
Video delay:	0 frames
HDCP pass through:	No
EDID emulation:	Yes, EDID learning by button
EDID memory:	1 user programmable EDID in transmitter
EDID support:	256 Byte Extended EDID v1.3
Front panel control:	EDID learn button
LED indicators (transmitter):	Power, source connected, signal present, laser active
LED indicators (receiver):	Power, laser detect, signal present, monitor connected
RS-232 pass through:	No
Fiber:	50/125 SC Multimode
Laser wavelengths:	4 ch. CWDM: 778; 800; 825; 850 nm (high speed)
Laser class specification:	Class 3
Transmitter output OMA*:	-6.25 dBm (worst case)
Receiver OMA* sensitivity:	-14.25 dBm (worst case)
Optical loss budget:	8 dB (worst case)
Transmission distance:	2500 m (using OM4 type fiber)
Power supply:	External power adaptor (100 to 240 V AC, 50/60 Hz)(5V DC, 1 A)
Power consumption (transmitter):	1.4 W
Power consumption (receiver):	0.8 W
Enclosure:	Solid aluminum
Dimensions:	39 W x 87,5 D x 15,4 H mm
Net weight (transmitter):	95 g
Net weight (receiver):	95 g
Compliance:	CE
Warranty:	3 years

OMA*: Optical Modulation Amplitude

Supplied Accessories



PSU-5VS Universal DC adaptor (Part No: 1180 0050)
Wall power adaptor with interchangeable plug for international use.
Universal input: 100-240 V AC, 50-60 Hz
Output: 5 V DC, 1 A



USB DC power cable (Part No: 1373 0009)
USB DC power cable one end is a male USB-A connector that can plug to a USB port, another end is a round shape male connector that can fit the extender's DC input.



Interfacing Heaven:

- > SD9B Packs 48 Flexi Channels and 16 Flexi busses into an extremely compact form factor.
- > As well as this already substantial bussing resource, an additional three 5.1 busses can be added.
- > 24 touch sensitive moving faders below a 15" touch sensitive screen make the SD9B as simple to use at speed as any other DiGiCo console.

DiGiCo SD9B

True power for complex productions.

The DiGiCo SD9B builds on the proven platform of the SD9, providing high channel count processing within a small frame format. With 48 input Flexi-channels and 16 Flexi-busses, the SD9B makes the perfect combination of size and features.

The 24 fader surface with the large 15" digitally driven touch screen interface offers an ideal user interface. The SD9B easily interfaces to a wide range of systems thanks to a wealth of connectivity options. 8 Analogue Mic Line Inputs, 8 Line Outputs, and 4 mono AES I/O are provided, in addition to which users have the option to connect up to two DiGiCo D-Racks to the CAT5E ports. These each provide 32 Microphone Inputs and up to 16 outputs.

Further connections include a MADI Port, GPI/O, MIDI Word Clock, and the factory option of upgrading the SD9B with Optocore connectivity.

The standard set of SD9B channel processing includes advanced EQ and dynamic tools to rival much larger consoles. Dual input Flexi-channels provide fast "Main" and "Alt" channel switching, which are idea

for events where a large number of spare microphones may be required.

All channels, both input channels and output busses, feature processing that includes channel delay, HPF and LPF with an industry leading 24db/Octave, 4 Band parametric EQ with the option of dynamic EQ processing, flexible dual dynamics processors including single and multiband compressors, de-esser, gate, ducker and a compressor with a side-chain input.

The Monitor Matrix allows users to define 8 monitoring sources, each supporting a 5.1 surround input. This routes to 3 speaker sets, again each supporting full 5.1 surround. Backstop PFL and Auto (Fader) PFL, combined with 2 configurable solo busses, complete the monitoring setup.

5.1 Inputs and outputs are efficiently handled using the multi-channel capability. A single 5.1 input channel, or 5.1 Master buss, can be unfolded to display the individual "legs" allowing adjustment to the individual elements. LCR and LCRS formats are also supported for total flexibility.





SD9B

Building on the proven SD9 platform, the SD9B provides high channel count processing within a small frame format.

Specifications

Detailed Product Specifications

SD11B General Specifications

Faders	12 x 100mm touch-sensitive, motorised
Screens	1 x 15" (38cm) LCD high - resolution touch screen
Meters	12 x 8-segment LED bargraph
Input Channels	32 Channels (ALL of which can be flexi channels)
Busses	12 Mono or Stereo busses + LR/LCR/LCRS/5.1 Master buss
Solo busses	2 stereo busses
Matrix	8 x 8 matrix (additional to busses above)
Control Groups	8, selectable for VCA-style, Moving fader, Mute Group
Graphic Eq	12 x 32-band, Gain +/- 12dB
Internal FX	6 Stereo FX processors
Local I/O	16 x mic/line on, 8 Line out, 2 x AES/EBU I/O
MADI interface	1 x 75 ohm BNC connectivity
Optic Interface	Optocore (Optional Factory Fit Only)
MIDI Interface	In / Out / Thru
VGA Port	DB-15 Mini-Female (1024 x 768 Resolution)
USB Ports (3)	USB 2
Light Connection (2)	XLR3 1.2 – 12V
Ext Sync	Word Clock, AES, MADI, Optics
Headphone	TRS Unbalanced / 8-600 Ohms 1/4 Inch Jack
Dimensions	483mm/19inch (w) x 577mm/22.7inch (d) x 232mm/9.1inch (h)
Weight	24Kg
D-Rack	412mm/16.22inch (w) x 312mm/12.3inch (d) x 179mm/7inch (h)
D-Rack Weight	7.4Kg (16lbs)

SD9B General Specifications

Faders	24 x 100mm Touch-sensitive, motorised
Screens	1 x 15" (38cm) LCD high - resolution touch screen
Meters	24 x 8-Segment LED bargraph
Input Channels	48 channels Mono or Stereo (all of which are Flexi Channels)
Busses	16 Flexi Busses with Full Processing Master buss up to 5.1
Solo busses	2 Mono or Stereo or Surround
Matrix	16 x 16 Matrix (additional to busses above)
Control Groups	8, Selectable for VCA-style, Moving fader, Mute Group
Graphic Eq	16 x 32-band, Gain +/- 12dB
Internal FX	8 Stereo Stealth™ FX processors
Local I/O	8 x Mic/line I/O, 4 x AES/EBU I/O (mono)
MADI interface	2 x 75 ohm Redundant BNC connectivity
MIDI Interface	In / Out / Thru
VGA port	DB-15 mini-female (1024 x 768 resolution)
USB ports (3)	USB 2
Light connection (2)	XLR3 1.2 – 12V
Ext Sync	Word clock, MADI, AES
Headphone	TRS unbalanced / 8-600 ohms 1/4 Inch Jack
Dimensions	878mm (w) x 785mm (d) x 262mm (h)
Weight	36Kg/79.37lbs (105Kg/231lbs with optional flightcase)
Optional Flightcase	1063mm (w) x 1131mm (h) x 472mm (d)
Power	90-264 VAC, 47-63Hz Auto Sensing. Requirements: 235 watts
Redundancy	Internal PSU x 2 (optional)

SD10B General Specifications

Faders	37 x 100mm Touch-Sensitive, Motorised (25 on SD10-24)
Screens	1 x 15" (38cm) LCD High - Resolution Touch Screen
Meters	38 x 20-Segment LED Bargraph (26 on SD10-24)
Input Channels	96 Channels, 12 Flexi
Busses	48 Mono or Stereo Busses + LR or LCR Master (or 5.1 Master on Broadcast)
Solo Busses	2 Stereo Busses
Matrix	16 x 16 Matrix (Additional to Busses Above)
Control Groups	24, Selectable for VCA-style, Moving Fader, Mute Group
Graphic EQ	24 x 32-band, Gain +/- 12dB
Internal FX	16 Stereo FX Processors
Local I/O	8 x Mic/Line I/O, 8 x AES/EBU I/O (Mono)
MADI Interface	2 Redundant Interfaces, 75 Ohm BNC Connectivity
Optic Interface	Optocore (Optional Factory Fit Only)
MIDI Interface	In / Out / Thru
VGA Port	DB-15 Mini-Female (1024 x 768 Resolution)
USB Ports (3)	USB 2
Light Connection (2)	XLR3 1.2 – 12V
Ext Sync	Word Clock, AES, MADI, Optics
Headphone	TRS Unbalanced / 8-600 Ohms 1/4 Inch Jack
SD10 Dimensions	1398mm (w) x 818mm (d) x 285mm (h)
SD10 Weight	60Kg/132lbs (175Kg/385.80lbs with Optional Flightcase)
SD10 Flightcase	1586mm (w) x 1158mm (h) x 504mm (d) Weight 115Kg/253.53lbs (Optional)
SD10 Power Requirements	90-264 VAC, 47-63Hz Auto Sensing. 235 watts
SD10-24 Dimensions	982mm (w) x 799mm (d) x 286mm (h)
SD10-24 Weight	45Kg/ 99.20lbs (140Kg/ 308.64lbs with Optional Flightcase)
SD10-24 Flightcase	1170mm (w) x 1158mm (h) x 498mm (d) Weight 95kg/ 209.43lbs (Optional)
SD10-24 Power Requirements	90-264 VAC, 47-63Hz Auto Sensing. 235 watts
Redundancy	Internal PSU x 2

Flexi Channels Explained

DiGiCo Flexi Channels offer the flexibility to switch channels between Mono/Stereo without any reduction in audio processing. Normally with DSP based systems switching channels to stereo either grabs the processing from another mono channel or links two adjacent mono channels. This means when an operator requires more stereo channels their total channel processing resource is reduced. With Flexi Channels no reduction is required as the FPGA is able to process significantly more audio instructions per second.

Couple Flexi Channels with the fact that every mono channel has both a main input and alternative (Alt) input for a back up or spare microphone and you have unrivalled flexibility and reassurance



SD11B Digital Broadcast Console



| LS9



CONFERENCIAS



EN DIRECTO



TRANSMISIÓN
AÉREA

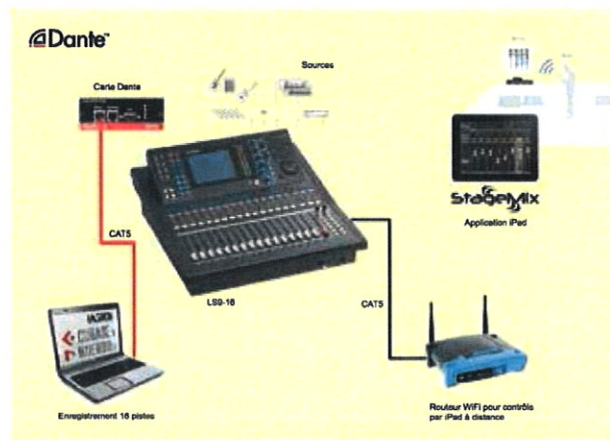
LS9
DIGITAL MIXING CONSOLE

StableMix



MEZCLADORES DIGITALES "TODO EN UNO" LIGEROS Y COMPACTOS CON FUNCIONES AVANZADAS Y CALIDAD DE SONIDO EXCEPCIONAL

- 32 o 16 canales de entrada mono micro/línea más 4 canales de entrada estéreo, ampliables hasta 64 o 32 canales en dos capas.
- 16 buses de mezcla, 8 buses de matriz, más buses estéreo y mono con el modo LCR.
- Preamplificadores de micro/línea analógicos de alto rendimiento.
- Compactos y ligeros como para que puede moverlos e instalarlos una sola persona sin problemas.
- La interfaz de Canal Seleccionado de Yamaha permite un acceso sencillo e intuitivo a las funciones de canal detalladas mediante una pantalla LCD en color y codificadores lógicamente dispuestos.
- Puertas de ruido, compresión y ecualización con muchas posibilidades.
- Grabador/reproductor de memoria USB integrado para para grabar o reproducir música de fondo.
- Paquete Virtual Rack con efectos y ecualización para el procesamiento más exigente.
- Memoria de escenas para almacenamiento y recuperación instantánea de todos los parámetros de la mesa, incluyendo la ganancia de los previos los canales.
- Gestión de acceso avanzada que incluye claves de usuario (dispositivos de memoria USB estándar) que pueden generarse con diferentes niveles de acceso para diferentes usuarios.
- Software de edición LS9 que mejora la funcionalidad y la capacidad de programación.

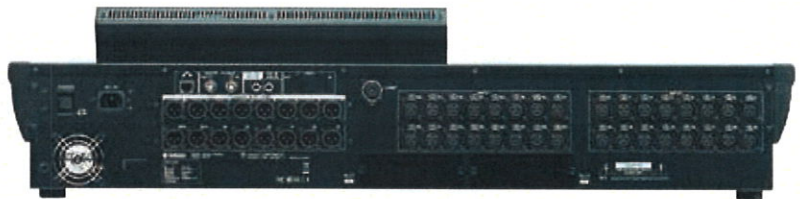


EJEMPLO DE APLICACIÓN LS9-16

MEZCLADORES



LS9-16



LS9-32

CON 16 ENTRADAS MICRO/LÍNEA

CON 32 ENTRADAS MICRO/LÍNEA

	LS9-16	LS9-32
CANALES DE MEZCLA	32 mono + 4 estéreo	64 mono + 4 estéreo
ENTRADAS DE MICRÓFONO MONO	16	32
ENTRADAS ESTÉREO	4 (retornos de efectos externos)	4 (retornos de efectos externos)
SALIDAS ANALÓGICAS	8	16
SALIDAS DE MONITORIZACIÓN	A través de salidas Omni	A través de salidas Omni
FADERS	17	33
BUSES DE MEZCLA	16 buses de mezcla + 8 de matriz + St (estéreo)	16 buses de mezcla + 8 de matriz + St (estéreo)
EFFECTOS	Multiefectos estéreo x 4	Multiefectos estéreo x 4
RETARDOS (DELAYS)	Todas las salidas	Todas las salidas
ECUALIZADORES GRÁFICOS	16 (flex-15)	16 (flex-15)
RANURAS DE EXPANSIÓN MY	1	2
E/S DIGITALES	SP-DIF x 1	SP-DIF x 1
FRECUENCIA DE MUESTREO	44.1 - 48 kHz	44.1 - 48 kHz
MEMORIA DE ESCENAS	300	300
MEMORIA DE CONFIGURACIÓN	StudioManager + pendrive USB	StudioManager + pendrive USB
DIMENSIONES (SIN OPCIONES)	480 x 220 x 500 mm (an. x al. x pro.)	884 x 220 x 500 mm (an. x al. x pro.)
PESO	12 kg	19,4 kg
OPCIONES	Kit de montaje en rack de 19 pulgadas RK1 Lámpara de LED de flexo LA1LA	Lámpara de LED de flexo LA1LA



* **RK1**
KIT DE MONTAJE EN RACK 19"

* **LA1LA**
LÁMPARA DE LED DE FLEXO

Digital Mixers

DIGITAL MIXER X32

32-Channel, 16-Bus Total-Recall Digital Mixing Console for Live and Recording Applications

- 32-channel total recall digital mixer with fully programmable high-end mic preamps and 16 mix buses, configurable as subgroups
- Main LCR and all 16 mix buses featuring inserts, 6-band parametric EQ's and dynamics processing
- 16 analog XLR outputs plus 6 additional line in/outputs, 2 phones connectors and a talkback section with integrated or external mic
- 48-channel digital snake ready* via AES50 ports featuring KLARK TEKNIK's SuperMAC networking capability for ultra-low jitter and latency
- Built-in expansion port for Firewire/USB/ADAT card* featuring standalone 16-channel recorder or other networking interfaces
- Virtual FX rack featuring 8 true-stereo FX slots for high-end simulations of famous outboard gear such as KLARK TEKNIK DN780, EMT250 etc. (included)
- Ultra-high power 32-Bit floating-point DSP features "unlimited" dynamic range, no internal overload and near-zero latency between in and outputs
- 6 mute groups and 8 DCA groups on 8 dedicated 100 mm motorized faders
- Super-easy user interface and dedicated channel strip section with direct access controls for intuitive workflow



Ever since the "dawn of digital" audio engineers the world over have had a love-hate relationship with their consoles. The new BEHRINGER X32 digital mixing console lets you focus on your event, instead of navigating a vast sea of knobs, buttons and menus like most other live digital mixers. X32 is intuitive and powerful with 40 processing channels and 25 mix buses, all equipped with serious signal processing (dynamics, EQ and inserts), which can be configured quickly to meet the demands of virtually any gig, large or small.

Ready for your input

Use any combination of the local 32 console mic inputs or the networked digital snake inputs on stage—their audiophile quality



programmable preamps always ensure full control, purity and impeccable dynamics. The dedicated channel strip puts 17 backlit buttons and 13 rotary controls with LED-collars right at your fingertips for nuanced adjustment of each channel's compressor, 4-band parametric EQ and much more. Each input and output channel strip features its own color backlit 128x64 graphic LCD, which provides vital channel information at-a-glance.

Virtual FX Rack

The onboard virtual FX Rack provides access to eight true-stereo, multi-effects processors (16 mono) including delay, chorus, dynamics—and it can run 4 production quality true-stereo reverbs concurrently with 8 channels of 31-band graphic equalization, all without the need for expensive, space-consuming external hardware.

High-count I/O options

I/O abounds with 32 high-end programmable mic preamps; 6 Aux Inputs on 1/4" TRS; 16 balanced XLR Outs, plus balanced Control Room outputs on both XLR and 1/4" TRS connectors. A single CAT5 cable from FOH to the stage can receive up to 48 channels of audio input—and deliver all bus outputs, along with 16 individual monitor feeds for BEHRINGER's brand new P16 personal monitoring system.

Continued on next page

DIGITAL MIXER X32

- High-resolution 7" color TFT with associated controls and individual RGB backlit graphic LCD's in every channel
- 25 motorized 100 mm faders, extensive channel strip plus dedicated user-definable control section
- USB flash connector providing file storage for uncompressed recordings plus show presets and system updates
- Connectivity for BEHRINGER's P-16 Personal Monitoring System*, AES/EBU stereo digital output and MIDI
- 6 independent matrix mix buses featuring inserts, 6-band parametric EQ's and dynamics processing
- Adjustable line delays available on all physical in and outputs
- Networked remote control or show setups with remote editor software via USB and Ethernet ports (included)
- Powerful scene management for convenient handling of complex productions
- High-quality components and exceptionally rugged construction ensure long life
- Conceived and designed by BEHRINGER Germany

* Not included AES50 is a trademark of the Audio Engineering Society, NY

behringer.com

Vital information is just a click away

Thanks to the netbook-resolution, 800x480 high-contrast color TFT display, you are never more than one or two button presses away from any of X32's eight highly intuitive control screens. Once you select the desired function, dedicated rotary/push encoders allow you to set parameters and source I/O assignment, without the need to "drill down" through multiple layers of menus or page through a complex owner's manual.

Versatile signal and scene management

Signals can be assigned to eight DCA groups (Digitally Controlled Amplifier), which provides simultaneous group level control via dedicated 100 mm motorized faders. The audio engineer can communicate with the talent by means of the Talkback section's onboard mic or an external mic of their choosing. X32's scene management allows snapshots of high-level production mixes to be captured and recalled for future use (you can even save them to a USB stick). X32 even has a dedicated custom control section with user-definable knobs and buttons where you can create your own set of controls, making it easy to access frequently used functions "on-the-fly."

Powered by MIDAS & KLARK TEKNIK

When we began development on the X32, we called on our sister companies, MIDAS and KLARK TEKNIK, recognized the world over for their digital consoles and EQ/FX processing, for implementation support. The programmable, high-grade mic preamps found in the X32 are based on a genuine MIDAS design, all the way down to their A/D converters. The resulting design ensures superior common mode rejection (CMRR) and extremely low harmonic distortion (THD). The X32 is an amazingly clean amalgam of high technology merged with superb user-friendly features.

We received brilliant support from MIDAS and KLARK TEKNIK in designing X32's GUI (graphical user interface), a major advancement in digital mixing made easy, productive, and well... fun! They also drew on their extensive experience in FPGA (Field Programmable Gate Array) coding for rock-solid, ultra-low latency digital channel patching—giving the X32 the capacity to handle up to 168 sources on 168 destinations, including the two AES50 ports. You can expect to see more collaboration between BEHRINGER and MIDAS in the very near future.

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DIGITAL MIXER X32

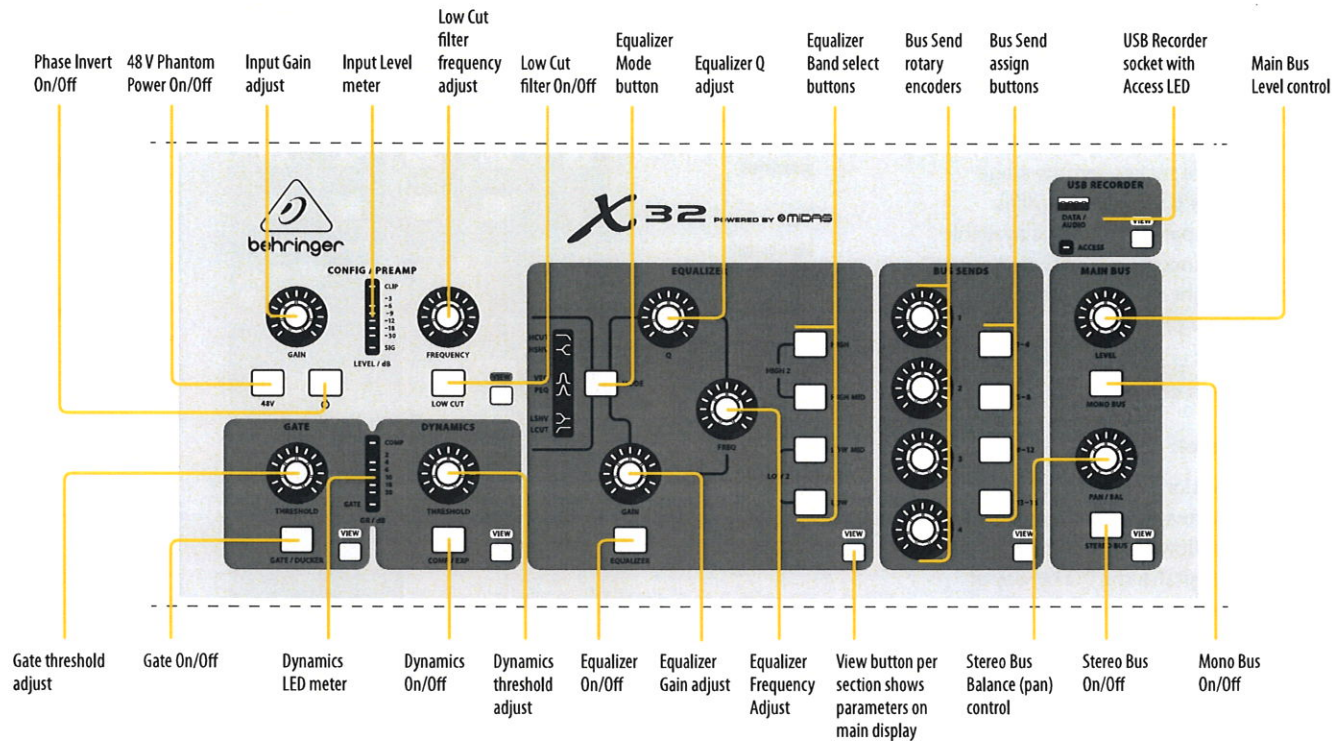
Bus and rear panel flexibility

X32 provides extensive output connectivity including 16 balanced XLR outputs, six balanced Line I/O on 1/4" TRS connectors; dual Phones outputs; Main LCR (Left, Center, Right)

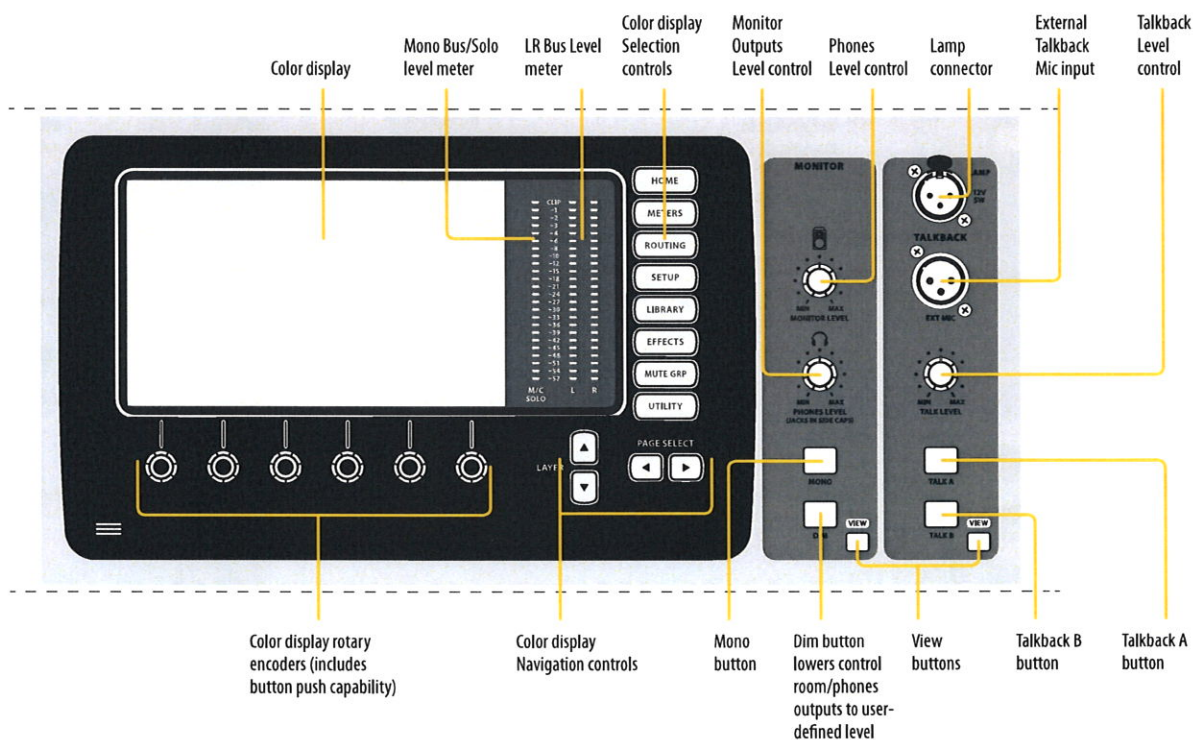
buses; 16 mix buses (also configurable as subgroups) with Inserts, 6-band parametric EQ and dynamics processing; plus six independent Matrix Mixes with Inserts, also with 6-band parametric EQ and dynamics processing.

Continued on next page

Input Channel Preamp, Dynamics & EQ Panel



Main Display, Monitor & Talkback Panel



DIGITAL MIXER X32

The rear panel also sports two AES50* ports, each with KLARK TEKNIK's rock-solid SuperMAC 48-channel I/O networking capability (for addressing a total of 96 inputs and outputs). Stereo digital output and MIDI are also supported, as well as ultra-low jitter, ultra-low latency communication between the X32 and digital snakes, remote stage boxes and outboard recording devices. A convenient top panel USB port is available for recording an uncompressed two-channel "board mix" straight to any standard USB thumb drive or for playing background music.

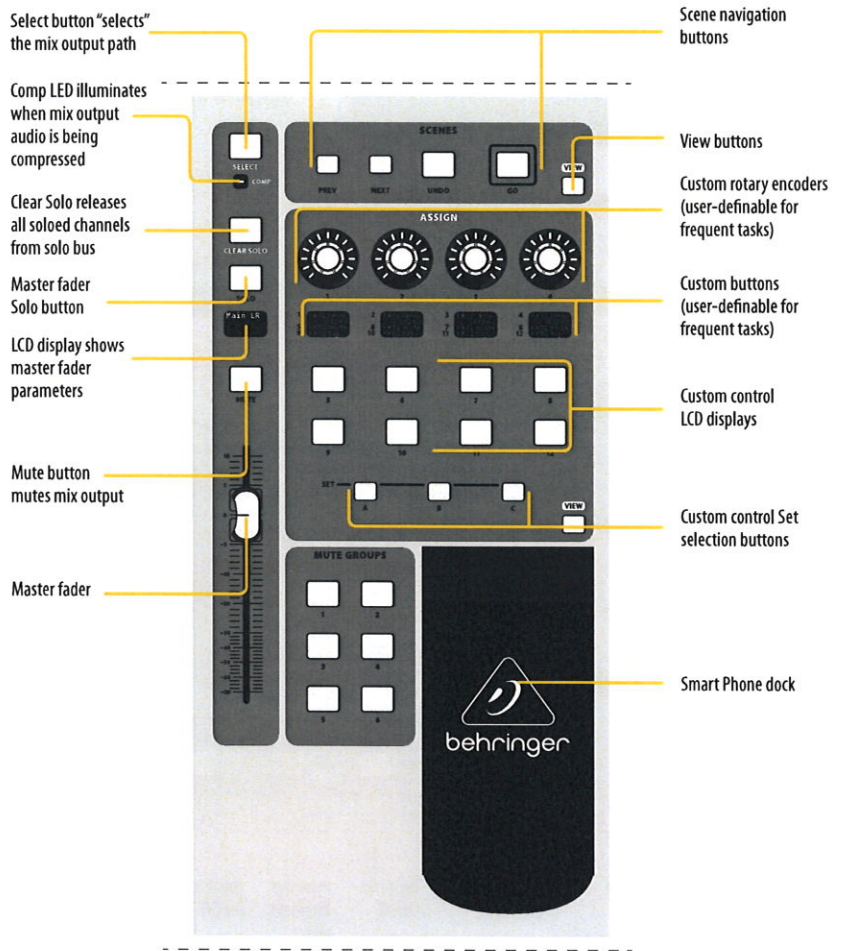
*The AES50 trademark is property of the Audio Engineering Society, NY

The future is here!

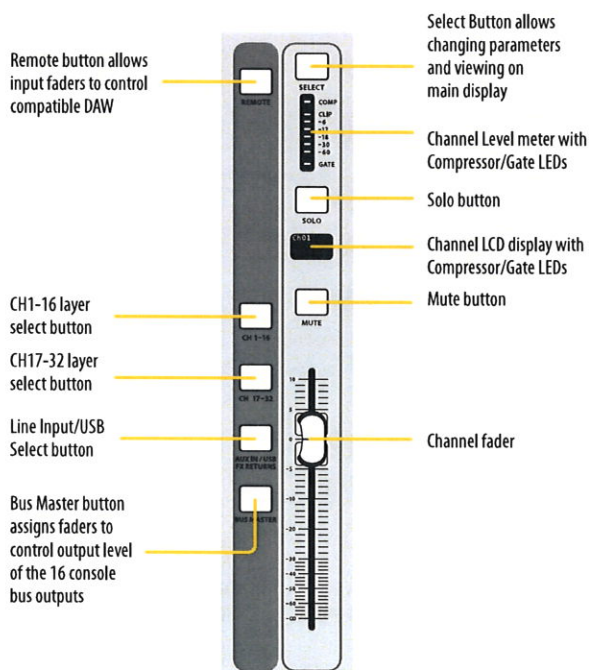
System expansion and connectivity capabilities are provided via an integrated card slot, which allows you to add up to 32 channels of digital audio I/O by way of IEEE1394 FireWire, ADAT TOSLINK or USB. It will even support standalone 16-channel uncompressed multi-track recording to an attached USB drive—without requiring a computer!

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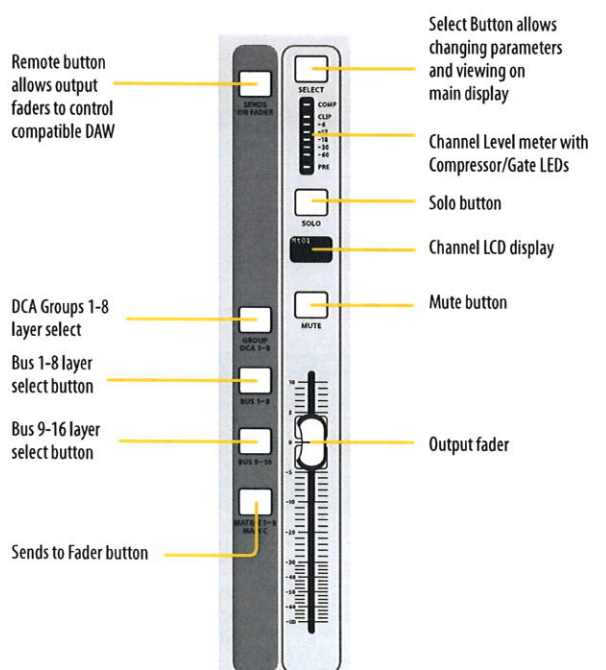
Main Out, Scenes & Custom Control Panel



Input Channel Strip



Output Channel Strip



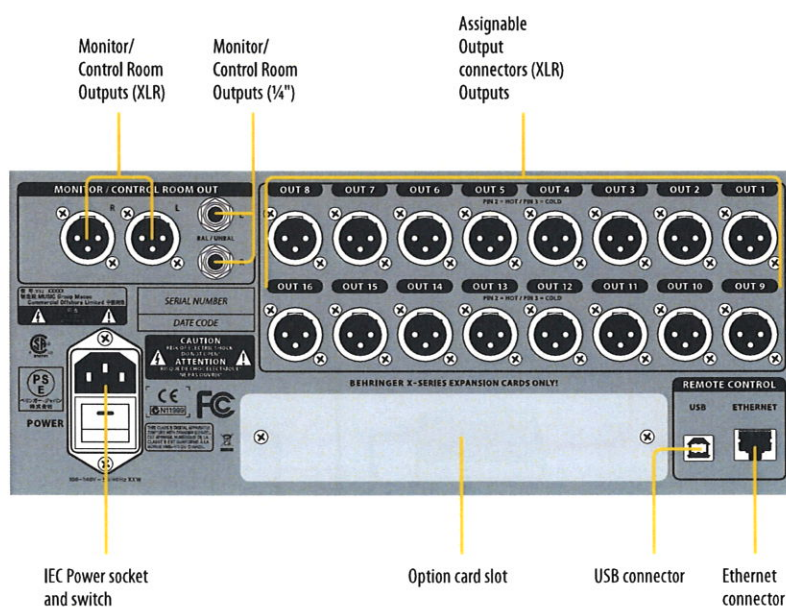
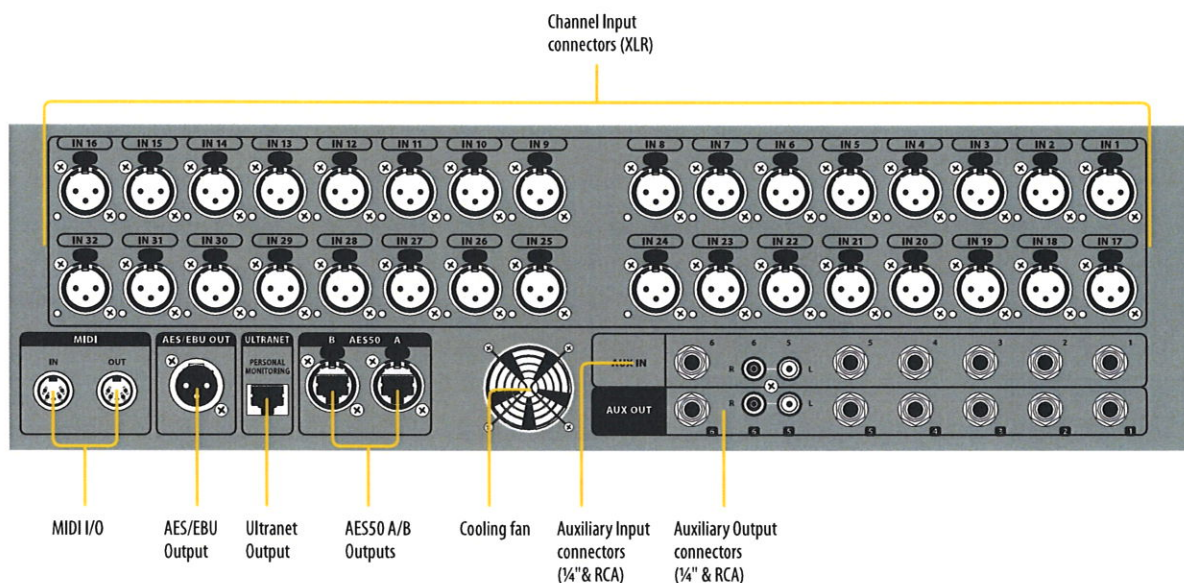
DIGITAL MIXER X32

Digital mixing—analog price

The BEHRINGER X32 digital mixing console sets a new benchmark for live sound mixing along with unprecedented value. BEHRINGER is proud to offer the full-featured X32 digital mixing console

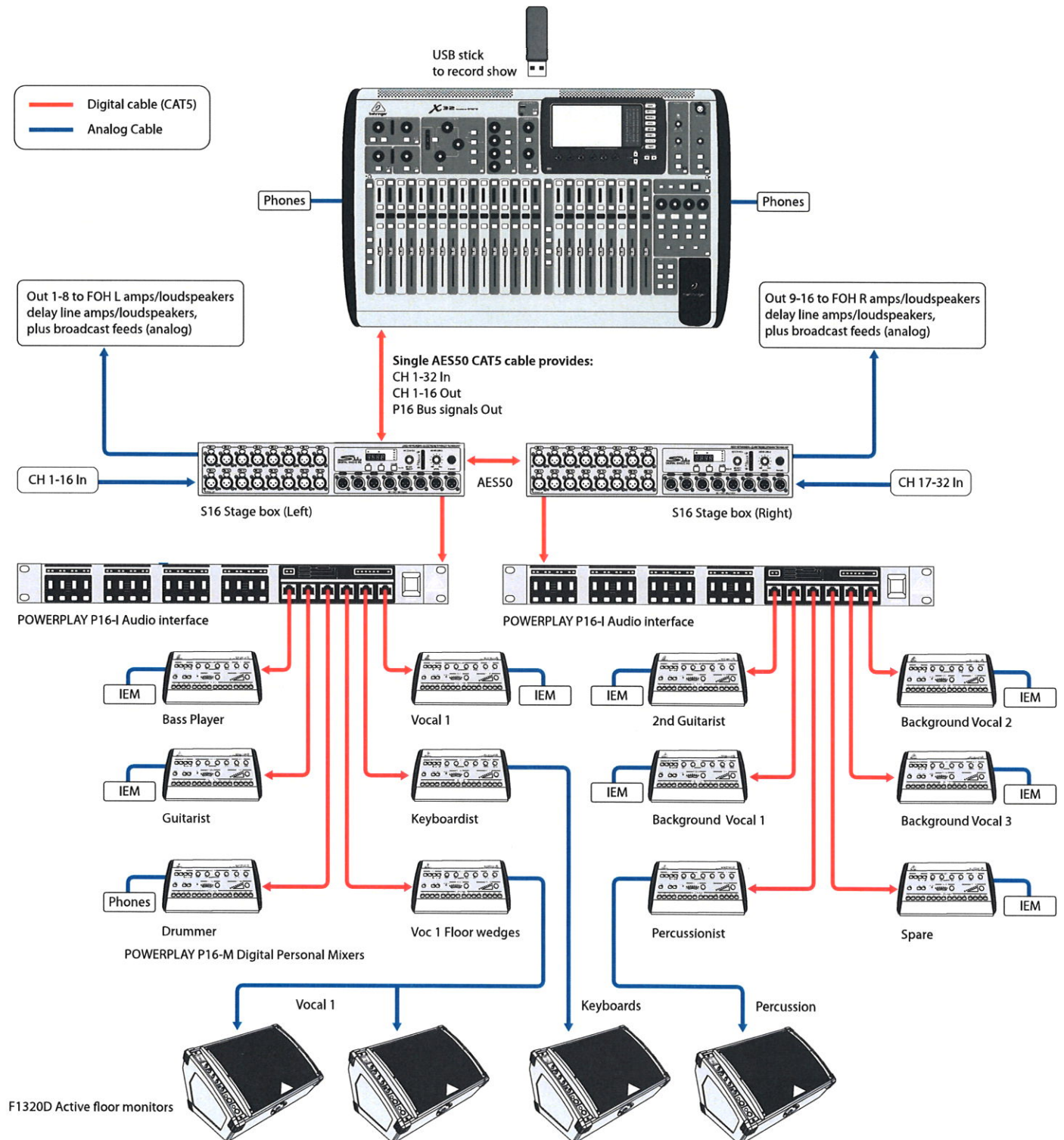
with its large input and output channel count, comprehensive processing, flexible expansion options and intuitive user interface—all at a price point that has the competition shaking in their boots!

Rear Panel Input Patchbay



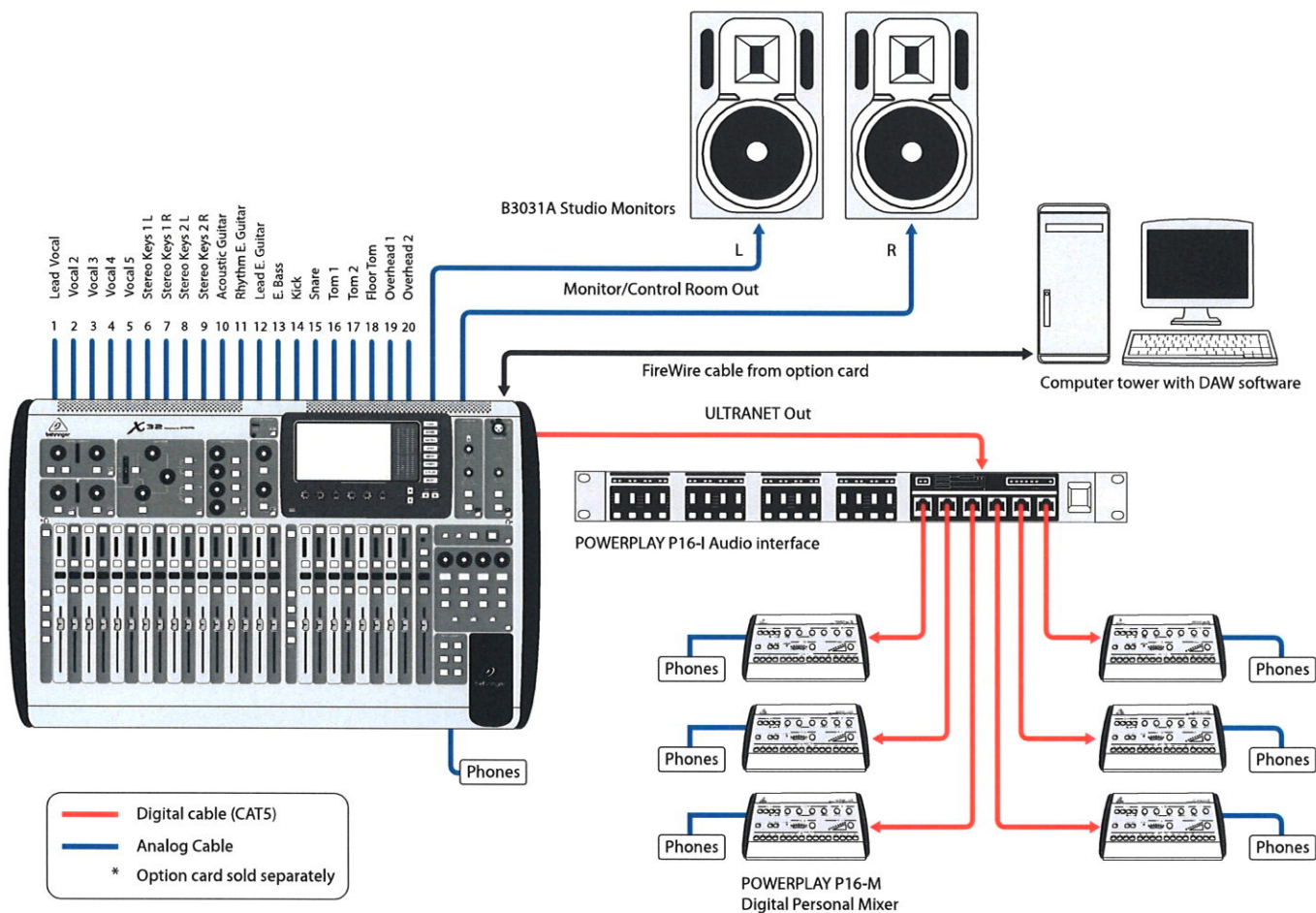
DIGITAL MIXER X32

X32 Live Performance Setup with S16 and P16 Monitor System



DIGITAL MIXER X32

X32 Recording Studio Setup (Option Card* Installed)



For service, support or more information contact the BEHRINGER location nearest you:

Europe MUSIC Group Services EU GmbH
Tel.: +49 2154 9206 4149

Singapore MUSIC Group Services SG (Pte.) Ltd
Tel.: +65 6845 1800

Japan MUSIC Group Services JP K.K.
Tel.: +81 3 5281 1180

USA/Canada MUSIC Group Services US Inc.
Tel.: +1 425 672 0816

Australia MUSIC Group Services AU Pty Ltd
Tel.: +61 03 9877 7170

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M'ELODIE : UltraCompact High-Power Curvilinear Array Loudspeaker



The self-powered M'elodie ultracompact high-power curvilinear array loudspeaker is a member of the popular M'LO® family of loudspeakers. Its extended high-frequency headroom gives it a smooth sound over its wide operating frequency range of 70 Hz to 18 kHz. This headroom combines with a 100-degree horizontal coverage pattern to provide detailed resolution of delicate transient information across a broad coverage area.

M'elodie is ideal for creating arrays with a very small footprint for applications that do not require the power and throw distance of the MICA™ compact high-power curvilinear array loudspeaker, or where reduced size and weight are advantageous. With its versatile QuickFly® rigging, which features captive GuideALinks™ for maximum flexibility and safety, M'elodie is equally suited to touring, rental, and fixed installation applications. Amazing power-to-size ratio, low profile, and ease of use makes it an outstanding performer in corporate AV applications, and ideal for smaller venues such as theatres, ballrooms, and clubs. M'elodie produces a peak output of 131 dB SPL with exceptionally flat phase and frequency response, making it capable of filling much larger spaces than one might expect.

While M'elodie can be used as a main system, individual cabinets work well for under-balcony coverage and frontfill. Since its sound and rigging are designed to pair seamlessly

with MICA, M'elodie is an excellent downfill or sidefill complement to a MICA main system for tours playing a variety of venues.

The low/low-mid section features two high-power, neodymium-magnet, 8-inch cone drivers with 1.5-inch voice coils, created to meet the power requirements of the system. The drivers are a proprietary design employing neodymium magnets for higher efficiency and power handling with reduced weight. The lowest frequency range is reproduced by these high-power drivers working in tandem, each powered by a dedicated amplifier channel.

To assure the smoothest response in the critical midrange and crossover region, M'elodie incorporates a complex active crossover design. For low frequencies, both drivers work together, but in the low-mid frequencies only one of the two 8-inch drivers is active. This eliminates interference between the drivers that would otherwise occur at shorter wavelengths, while maintaining optimal polar and frequency response characteristics at the crossover frequency.

The high-frequency section uses a 1.2-inch exit, 3-inch diaphragm compression driver with a neodymium magnet, powered by a dedicated amplifier channel. The output of the driver is coupled to a 100-degree (horizontal coverage) constant-directivity horn through a custom REM™ manifold.

The REM is a patented coupling device that introduces driver output to the horn throat across a very short path, effectively controlling the dispersion characteristics, but with dramatically reduced distortion in comparison to other techniques.

As a self-powered loudspeaker, M'elodie incorporates a high-power, 3-channel, class AB/H power amplifier and sophisticated control circuitry housed within the cabinet, dramatically simplifying setup and installation. The M'elodie loudspeaker's on-board amplifier delivers 1275 watts total burst power (2550 watts peak). Dedicated limiters protect and extend the life of the drivers at very high levels and prevent severe non-linear circumstances. This modular, field-replaceable amplifier/processing package also incorporates Meyer Sound's Intelligent AC™ power supply, which automatically adjusts for any line voltage worldwide and provides both soft turn-on and transient protection. M'elodie is fitted standard with Meyer Sound's exclusive RMS™ interface, allowing you to monitor and troubleshoot an entire RMS-equipped Meyer Sound system remotely from your PC notebook or desktop system.

Options for M'elodie include a weather-protected version with a rain hood to safeguard the electronics, and custom color finishes. Top and transition grids, a caster frame for transporting stacks of multiple units, and protective covers are available.

FEATURES & BENEFITS

- Exceptional power-to-size ratio
- Wide and even horizontal coverage pattern
- Very small footprint keeps a low profile appearance
- Seamless integration with MICA
- QuickFly rigging with captive GuideALinks simplifies use in flown or ground-stacked arrays, alone or with MICA and/or 600-HP subwoofer

APPLICATIONS

- Corporate AV
- Small theatres, houses of worship, and ballrooms
- Downfill or sidefill for systems using MICA
- Frontfill
- Under-balcony coverage

ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, full-range unit for deployment in line array systems. The low/low-mid frequency transducers shall consist of two 8-inch cone drivers, rated to handle 600 watts AES* (900 watts peak). The high-frequency transducer shall consist of one 3-inch diaphragm, 1.2-inch exit compression driver, rated to handle 180 watts AES* (360 watts peak) coupled via a custom manifold to a 100-degree horizontal constant-directivity horn.

The loudspeaker shall incorporate internal processing and a three-channel amplifier. Processing functions shall include equalization, phase correction, driver protection and signal division for the three frequency sections. The crossover point shall be 1100 Hz. An additional low-frequency crossover shall cause the two low/low-mid frequency transducers to work in combination between 70 Hz and 320 Hz, with only one working up to the crossover frequency to maintain optimal polar characteristics.

Each amplifier channel shall be class AB/H with complementary MOSFET output stages. Burst capability shall be 1275 watts total (2550 watts peak) with two channels at 500 watts into a nominal 4-ohm load for the low and low-mid drivers and one channel at 275 watts into a nominal 8-ohm load for the high-frequency driver. Distortion (THD, IM, TIM) shall not exceed 0.02%. The audio input shall be electronically balanced with a 10 kOhm impedance and accept a nominal 0 dBV (1 V rms, 1.4 V pk) signal. Connectors shall be XLR (A-3) type male and female. RF filtering shall be provided. CMRR shall be greater than 50 dB (typically 80 dB, 50 Hz – 500 Hz).

Performance specifications for a typical production unit shall be as follows, measured

at 1/3-octave resolution: Operating frequency range shall be 70 Hz to 18 kHz. Phase response shall be $\pm 30^\circ$ from 1.5 kHz to 16 kHz. Maximum peak SPL shall be 131 dB at 1 meter. Beamwidth shall be 100 degrees horizontal. Vertical coverage in multi-cabinet arrays shall be dependent on system configuration.

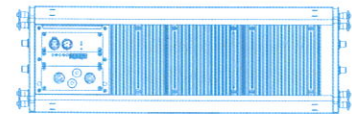
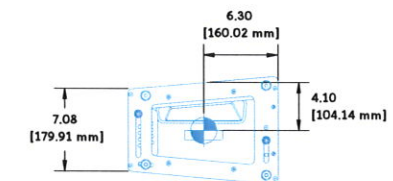
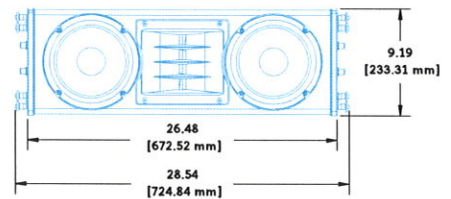
The internal power supply shall perform automatic voltage selection, EMI filtering, soft current turn-on and surge suppression. Powering requirements shall be nominal 100, 110, or 230 V AC line current at 50 Hz or 60 Hz. UL and CE operating voltage range shall be 100 to 230 V AC. Maximum peak current draw during burst shall be 4 A at 115 V AC and 2 A at 230 V AC. Current inrush during soft turn-on shall not exceed 10 A at 115 V AC. AC power connectors shall be PowerCon with looping output or VEAM all-in-one.

The loudspeaker system shall incorporate the electronics module for Meyer Sound's RMS remote monitoring system.

All loudspeaker components shall be mounted in an enclosure constructed of premium birch plywood with a hard and damage-resistant black textured finish. The front protective grille shall be powder-coated, hex-stamped steel. To build flown or ground-stacked loudspeaker arrays, linking to the grid and between cabinets shall be accomplished with QuickFly rigging hardware using captive GuideALinks allowing 12 splay angles between 0 and 11 degrees.

Dimensions shall be 28.54" wide by 9.19" high by 12.75" deep (724.84 mm x 233.31 mm x 323.85 mm). Weight shall be 62 lbs (28.12 kg).

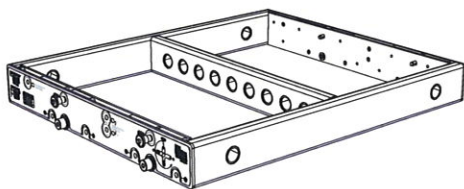
The loudspeaker shall be the Meyer Sound M'elodie.



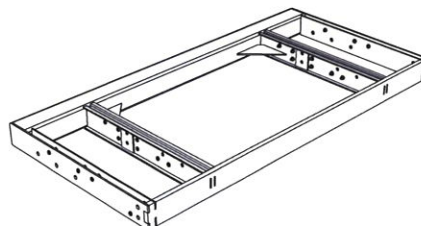
- Dimensions** 28.54" w x 9.19" h x 12.75" d (724.84 mm x 233.31 mm x 323.85 mm)
- Weight** 62 lbs (28.12 kg)
- Enclosure** Premium birch plywood
- Finish** Black textured
- Protective Grille** Powder-coated hex-stamped steel
- Rigging** QuickFly rigging with four captive GuideALinks in the bottom corners of two aluminum and steel end frames, secured with quick-release pins

*Both transducers driven continuously for two hours with band-limited noise signal having a 6 dB peak-average ratio.

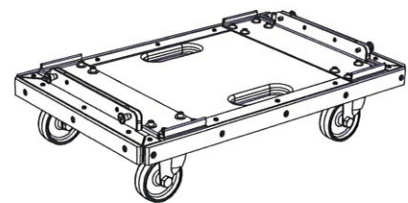
QUICKFLY RIGGING AND TRANSPORT ACCESSORIES



MG-M'elodie multipurpose grid
Supports flying up to 18 M'elodie cabinets with a 7:1 safety ratio or 25 M'elodie cabinets with a 5:1 safety ratio. Can also be used for ground-stacking M'elodie.



MTF-MICA/M'elodie transition frame
Facilitates using M'elodie as downhill for a MICA array, for flying M'elodie under the 600-HP high-power subwoofer, or for ground-stacking with the 600-HP.



MCF-M'elodie caster frame
Allows up to five cabinets to be transported fully rigged, and is dimensioned for tight packing in both U.S. and European trucks. Durable nylon covers are also available to make M'elodie completely ready for the road.

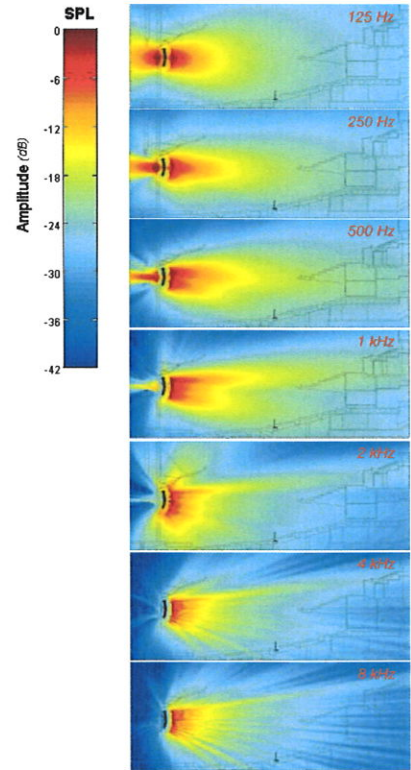
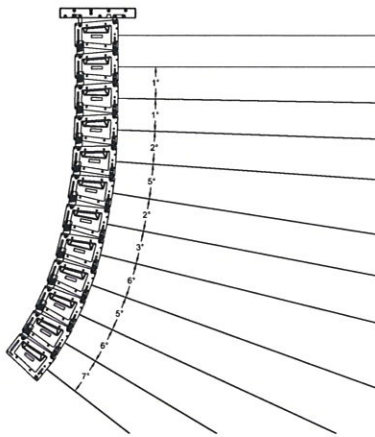
M'ELODIE VERTICAL SPLAY AND COVERAGE

These illustrations show how the splay between adjacent cabinets in a M'elodie array may be adjusted to tailor coverage for a specific venue. The plots on the right illustrate the vertical directivity characteristics of the array on the left, with a section view of an example venue superimposed.

About the Vertical Directivity Plots

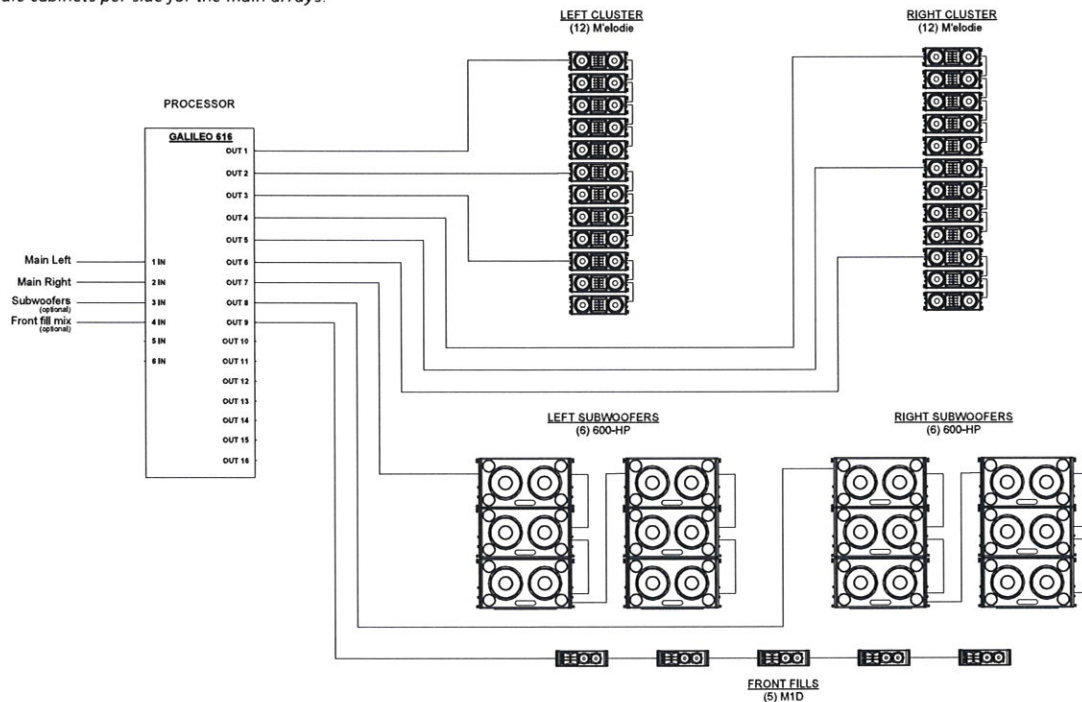
These color images are sound intensity plots made using the Meyer Sound MAPP Online Pro™ acoustical prediction program, a unique and highly accurate visualization tool for professional sound system designers. Utilizing rigorous scientific techniques and careful, high-resolution measurements, MAPP Online Pro is a powerful, cross-platform, Java-based application which allows users to accurately predict the coverage pattern, frequency response, impulse response, and maximum SPL output of single or arrayed Meyer Sound loudspeakers.

In these sound field plots, the color spectrum is used to represent levels of sound intensity, with red being the loudest and blue being the softest, as shown in the scale above right.



SIGNAL FLOW FOR A TYPICAL REINFORCEMENT SYSTEM

M'elodie loudspeakers permit versatile arrays and are compatible with other Meyer Sound reinforcement loudspeakers, giving sound designers maximum freedom to customize systems for their needs. This block diagram illustrates the signal flow for a typical sound reinforcement system using 12 M'elodie cabinets per side for the main arrays.



M'ELODIE SPECIFICATIONS

ACOUSTICAL	Operating Frequency Range ¹	70 Hz – 18 kHz
	Free Field Frequency Response ²	76 Hz – 16 kHz ±4 dB
	Phase Response	1.5 kHz – 16 kHz ±30°
	Maximum Peak SPL ³	131 dB
COVERAGE	Dynamic Range	>110 dB
	Horizontal Coverage	100°
CROSSOVER⁴	Vertical Coverage	Varies, depending on array length and configuration
		1100 Hz
TRANSDUCERS	Low/Low-Mid Frequency ⁶	Two high-power 8" cone drivers with neodymium magnets Nominal impedance: 4 Ω Voice coil size: 1.5" Power handling capability: 600 W (AES) ⁵ ; 900 W peak ⁷
	High Frequency ⁸	3" compression driver Nominal impedance: 8 Ω Voice coil size: 3" Diaphragm size: 3" Exit size: 1.2" Power handling capability: 180 W (AES) ⁵ ; 360 W peak ⁷
AUDIO INPUT	Type	Differential, electronically balanced
	Maximum Common Mode Range	±15 V DC, clamped to earth for voltage transient protection
	Connectors	Female XLR input with male XLR loop output or VEAM all-in-one connector (integrates AC, audio and network)
	Input Impedance	10 kΩ differential between pins 2 and 3
	Wiring	Pin 1: Chassis/earth through 220 kΩ, 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies Pin 2: Signal + Pin 3: Signal – Case: Earth ground and chassis
	DC Blocking	Differential DC blocking up to max common mode voltage
	CMRR	>50 dB, typically 80 dB (50 Hz–500 Hz)
	RF Filter	Common mode: 425 kHz Differential mode: 142 kHz
	TIM Filter	Integral to signal processing (<80 kHz)
	Nominal Input Sensitivity	0 dBV (1 V rms, 1.4 V pk) continuous is typically the onset of limiting for noise and music
	Input Level	Audio source must be capable of producing of +20 dBV (10 V rms, 14 V pk) into 600 Ω in order to produce maximum peak SPL over the operating bandwidth of the loudspeaker
	AMPLIFIER	Type
Output Power ⁹		1275 W (three channels; 2 x 500 W, 1 x 275 W)
Total Output ¹⁰		2550 W peak
THD, IM, TIM		<.02%
AC POWER	Load Capacity	4 Ω low and mid channels; 8 Ω high channels
	Cooling	Convection
RMS NETWORK	Connector	PowerCon with looping output or VEAM
	Automatic Voltage Selection	Automatic, two ranges, each with high-low voltage tap (uninterrupted)
	Safety Agency Rated Operating Range	95 V AC – 125 V AC; 208 V AC – 235 V AC, 50/60 Hz
	Turn-on and Turn-off Points	85 V AC – 134 V AC; 165 V AC – 264 V AC
	Current Draw:	
	Idle Current	.680 A rms (115 V AC); .360 A rms (230 V AC); .760 A rms (100 V AC)
	Max Long-Term Continuous Current (>10 sec)	2.3 A rms (115 V AC); 1.2 A rms (230 V AC); 2.6 A rms (100 V AC)
	Burst Current (<1 sec) ¹¹	4 A rms (115 V AC), 2 A rms (230 V AC), 4.5 A rms (100 V AC)
	Ultimate Short-Term Peak Current Draw	13 A rms (115 V AC), 6.5 A rms (230 V AC), 15 A rms (100 V AC)
	Inrush Current	10 A rms (115 and 100 V AC), 18 A rms (230 V AC)
		Equipped with two-conductor twisted-pair network, reporting all operating parameters of amplifiers to system operator's host computer

NOTES:

1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
2. Free field, measured with 1/3-octave frequency resolution at 4 meters.
3. Measured with music referred to 1 meter.
4. At these frequencies, the transducers produce equal sound pressure levels.
5. Power handling is measured under AES standard conditions: transducers driven continuously for two hours with band limited noise signal having a 6 dB peak-average ratio.
6. To eliminate interference at shorter wavelengths, the two 8-inch drivers work in combination at lower frequencies (70 Hz – 320 Hz). At mid frequencies (320 Hz – 1100 Hz) only one cone driver is active to maintain optimal polar and frequency response characteristics.
7. Peak power handling is measured with transducers driven for 100 milliseconds with pink noise signal having a 12 dB peak-average ratio.
8. The driver is coupled to a 100-degree-horizontal constant-directivity horn through a proprietary acoustical combining manifold (REM).
9. Amplifier wattage rating based on the maximum unclipped burst sine-wave rms voltage that the amplifier will produce for at least 0.5 seconds into the nominal load impedance: 45 V rms low channels and 47 V rms high channel.
10. Peak power based on the maximum unclipped peak voltage that the amplifier will produce for at least 100 milliseconds into the nominal load impedance: 63 V peak low channels and 67 V peak high channel.
11. AC power cabling must be of sufficient gauge so that under burst current rms conditions, cable transmission losses do not drop voltage below specified operating range at the speaker.

Made by Meyer Sound Laboratories
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Carl-Zeiss-Strasse 13
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 N775



M'ELODIE — 04.152.004.01 A

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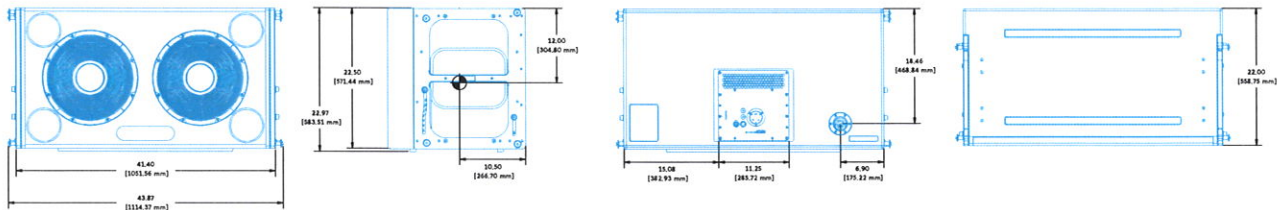
techsupport@meyersound.com
www.meyersound.com

600-HP : Compact High-Power Subwoofer



600-HP shown with optional QuickFly MRF-600 rigging frame

- Dimensions** 41.40" w x 22.50" h x 22" d
(1052 mm x 572 mm x 559 mm)
- Weight** 182 lbs (82.55 kg); with rigging: 215 lbs (97.52 kg)
- Enclosure** Premium birch plywood
- Finish** Black textured
- Protective Grille** Powder-coated, hex stamped steel lined with acoustical black mesh
- Rigging** Optional end-mounted QuickFly® rigging hardware, with captive GuideALinks™ on the bottom four corners and quick-release pins; compatible with MICA™ compact high-power curvilinear array loudspeakers and accessories



The 600-HP is a self-powered, high-output subwoofer that may be used in both flown and ground-stacked configurations. It is available in three versions: as a portable version with handles, for installation without handles, or with rigging hardware. When fitted with the optional QuickFly MRF-600 rigging frame, the 600-HP is designed to rig directly with the MICA compact, high-power curvilinear array loudspeakers. The versatility of the 600-HP also allows it to be used with a variety of other Meyer Sound self-powered loudspeakers — including the CQ-1, CQ-2, UPA-1P, UPA-2P and UPJ-1P — in fixed and touring applications.

The system features two specially designed high-power 15-inch cone drivers, engineered to provide optimal performance in subwoofer applications. The high-excursion, back-vented drivers have 4-inch voice coils, and each is rated to handle 1200 watts (AES)*.

The two cone drivers are housed in a rectangular, optimally tuned and vented enclosure that is the same width as MICA, and a few inches higher and deeper. The enclosure geometry makes vertical ground-stacking easy and convenient. All versions include plastic skids on

the bottom of the unit to prevent damage to the enclosure or the unit below; the skids align with slots on the cabinet's top to ensure secure stacking. Operating frequency range is from 36 Hz to 150 Hz, with a peak SPL at one meter of 138 dB.

Each cone driver is driven by a channel of the integral two-channel class AB/H amplifier with complementary MOSFET output stages. Total output power is 2250 watts (4500 watts peak), providing the system with sufficient headroom to accommodate the most extreme sound reinforcement demands with ease. The circuitry includes TruPower® limiting to extend the life of the drivers and hold long-term power compression to less than 1 dB. The amplifier, control electronics, and power supply are integrated into a single, field-replaceable module that is mounted into the rear of the enclosure.

The optional MRF-600 rigging frame uses captive, rigid GuideALinks contained within recessed guides in the lower front and rear corners of the enclosure. A slot and convenient pinned handle allow the link to be moved and pinned for arraying or storage. The versatility of angles achieved by using combinations of

front and back positions allows a MICA array suspended under 600-HP subwoofers to be uptilted for balcony coverage up to 15 degrees, or downtilted to 6 degrees with respect to the 600-HP. The 600-HP can make use of the optional MG-MICA rigging grid to accommodate a variety of flown and stacked configurations.

The durable enclosure is constructed of premium birch plywood coated with a black, textured hard-shell finish, with a powder-coated, hex-stamped steel grille lined with acoustical black mesh to protect the drivers. The exterior dimensions of the 600-HP are suitable for both European and U.S. trucks, and it can securely travel in stacks using the MCF-MICA caster frame, or MDB-600 dolly board when not fitted with rigging frames.

Options for the 600-HP include weather protection and custom color finishes for fixed installations and other applications requiring specific cosmetics. The RMS™ remote monitoring system — standard with the rigging version and optional with other configurations — allows comprehensive monitoring of system parameters on a Windows®-based network.

*Driven continuously for two hours with a band-limited noise signal having a 6 dB peak-to-average ratio.

FEATURES & BENEFITS

- Efficient, high-power and high-excursion cone drivers
- Extremely low distortion for low-frequency clarity
- Very high peak power yields excellent transient reproduction
- Low-frequency complement to MICA and other Meyer Sound self-powered loudspeakers

When fitted with MRF-600 rigging frames:

- Stackable, and flyable by itself or with MICA full-range loudspeakers
- Transportable in stacks using optional MCF-MICA caster frame

APPLICATIONS

- Medium to large theatres and clubs
- Houses of worship
- Portable and installed A/V systems

600-HP SPECIFICATIONS

ACOUSTICAL	<p>Operating Frequency Range¹ 36 Hz – 150 Hz</p> <p>Frequency Response² 39 Hz – 130 Hz ±4 dB</p> <p>Phase Response 46 Hz – 120 Hz ±30°</p> <p>Maximum Peak SPL³ 138 dB</p> <p>Dynamic Range >110 dB</p>
COVERAGE	360° (single unit); varies with number of units and configuration
TRANSDUCERS	<p>Two 15" cone drivers</p> <p>Nominal impedance: 4 Ω</p> <p>Voice coil size: 4"</p> <p>Power handling capability: 1200 W (AES)⁴</p>
AUDIO INPUT	<p>Type Differential, electronically balanced</p> <p>Maximum Common Mode Range ±15 V DC, clamped to earth for voltage transient protection</p> <p>Connectors Female XLR input with male XLR loop output or VEAM all-in-one connector (integrates AC, audio and network)</p> <p>Input Impedance 10 kΩ differential between pins 2 and 3</p> <p>Wiring Pin 1: Chassis/earth through 220 kΩ, 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies</p> <p>Pin 2: Signal +</p> <p>Pin 3: Signal –</p> <p>Case: Earth ground and chassis</p> <p>DC Blocking None on output, DC blocked through signal processing</p> <p>CMRR >50 dB, typically 80 dB (50 Hz–500 Hz)</p> <p>RF Filter Common mode: 425 kHz</p> <p>Differential mode: 142 kHz</p> <p>TIM Filter Integral to signal processing (<80 kHz)</p> <p>Nominal Input Sensitivity 0 dBV (1 V rms, 1.4 V pk) continuous is typically the onset of limiting for noise and music</p> <p>Input Level Audio source must be capable of producing a minimum of +20 dBV (10 V rms, 14 V pk) into 600 Ω in order to produce maximum peak SPL over the operating bandwidth of the loudspeaker</p>
AMPLIFIER	<p>Type Two-channel complementary MOSFET output stages (class AB/H)</p> <p>Output Power⁵ 2250 W</p> <p>Total Output⁶ 4500 W peak</p> <p>THD, IM, TIM <.02%</p> <p>Load Capacity 4 Ω each channel</p> <p>Cooling Forced air cooling, two fans total (one ultrahigh-speed reserve fan)</p>
AC POWER	<p>Connector 250 V AC NEMA L6–20 twistlock, IEC–309 male, PowerCon, or VEAM</p> <p>Automatic Voltage Selection Automatic, two ranges, each with high–low voltage tap (uninterrupted)</p> <p>Safety Agency Rated Operating Range 95 V AC – 125 V AC; 208 V AC – 235 V AC, 50/60 Hz</p> <p>Turn-on and Turn-off Points 85 V AC – 134 V AC; 165 V AC – 264 V AC, 50/60 Hz</p> <p>Current Draw:</p> <p>Idle Current 0.64 A rms (115 V AC); 0.32 A rms (230 V AC); 0.85 A rms (100 V AC)</p> <p>Max Long-Term Continuous Current (>10 sec)⁷ 8.8 A rms (115 V AC); 4.4 A rms (230 V AC); 10 A rms (100 V AC)</p> <p>Burst Current (<1 sec)^{7,8} 19 A rms (115 V AC), 9.5 A rms (230 V AC), 22 A rms (100 V AC)</p> <p>Ultimate Short-Term Peak Current Draw⁷ 39 A (115 V AC), 20 A (230 V AC), 45 A (100 V AC)</p> <p>Inrush Current 7 A pk (115 V AC), 7 A pk (230 V AC), 10 A pk (100 V AC)</p>
RMS NETWORK	Equipped with two-conductor twisted-pair network, reporting all operating parameters of amplifiers to system operator's host computer

NOTES:

1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics
2. Free field, measured with 1/3-octave frequency resolution at 4 meters
3. Measured with music referred to 1 meter, half-space loading
4. Power handling is measured under AES standard conditions, transducer driven continuously for two hours with band-limited noise signal having a 6 dB peak-average ratio
5. Amplifier wattage rating based on the maximum unclipped burst sine-wave rms voltage that the amplifier will produce for at least 0.5 seconds into the nominal load impedance: both channels 67 V rms into 4 ohms
6. Peak power based on the maximum unclipped peak voltage that the amplifier will produce for at least 100 milliseconds into the nominal load impedance: both channels 95 V pk into 4 ohms
7. Measured using pink noise as an input signal
8. AC power cabling must be of sufficient gauge so that under burst current rms conditions, cable transmission losses do not drop voltage below specified operating range at the speaker

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 CE

 SKS9 COMMERCIAL AUDIO SYSTEM
UL US LISTED

600-HP: 04.149.004.01 A

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ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, sub-bass system that may be deployed as either a flown or a ground-stacked unit. The transducers shall consist of two 15-inch cone drivers (4-inch voice coil) each rated to handle 1200 AES* watts.

The loudspeaker shall incorporate internal processing electronics and a two-channel amplifier. Each amplifier channel shall be class AB/H with complementary MOSFET output stages. Burst power shall be 2250 watts (4500 watts peak) with a nominal 4-ohm resistive load. Distortion (THD, IM, TIM) shall not exceed 0.02%. Protection circuits shall include TruPower limiting. The audio input shall be electronically balanced with a 10 kΩ impedance and accept a nominal 0 dBV (1 V rms) signal (20 dBV to produce maximum SPL). Connectors shall be XLR (A–3) type male and female or VEAM all-in-one. RF filtering shall be provided, and CMRR shall be greater than 50 dB (50 – 500 Hz).

Performance specification for a typical production unit shall be as follows, measured at 1/3-octave resolution: Operating frequency range shall be 36 Hz to 150 Hz. Phase response shall be ±30° from 46 Hz to 120 Hz. Maximum peak SPL shall be 138 dB at 1 meter, half-space loading.

The internal power supply shall perform automatic voltage selection, EMI filtering, soft current turn-on and surge suppression. Powering requirements shall be nominal 100 V, 110 V or 230 V AC line current at 50 Hz or 60 Hz. UL and CE operating voltage ranges shall be 95 to 125 V AC and 208 to 235 V AC. Current draw during burst shall be 19 A rms at 115 V AC, 9.5 A rms at 230 V AC, and 22 A rms at 100 V AC. Current inrush during soft turn-on shall not exceed 7 A at 115 V AC. AC power connectors shall be NEMA L6–20, IEC 309 male, PowerCon, or VEAM all-in-one.

The loudspeaker shall optionally incorporate the electronics module for Meyer Sound's RMS remote monitoring system.

Loudspeaker components shall be mounted in a premium birch plywood enclosure with a black textured hard-shell finish. The unit shall accommodate an optional rigging frame, as well as options with and without carrying handles. Dimensions shall be 41.4" w x 22.5" h x 22.0" d (1052 mm x 572 mm x 559 mm). Weight shall be 182 lbs (82.55 kg). Weight with rigging shall be 215 lbs (97.52 kg).

The loudspeaker shall be the Meyer Sound 600-HP compact high-power subwoofer.

*Driven continuously for two hours with band-limited noise signal having a 6 dB peak-average ratio.

DCN CCU Unidad de control central

www.boschsecurity.es



BOSCH

Innovación para tu vida



La unidad de control central (CCU) es capaz de controlar los micrófonos de los delegados, distribuir la traducción simultánea y llevar a cabo sesiones de votación, todo ello sin necesidad de operador. Junto con un PC, esta unidad de control ofrece más funciones para el control de conferencias. Los usuarios pueden acceder a una amplia gama de módulos de software, cada uno con una función correspondiente de control y supervisión de una conferencia. Estos módulos amplían enormemente la capacidad de gestión de conferencias. En caso de fallo del PC, la unidad de control pasará a modo de funcionamiento independiente, permitiendo la continuidad de la conferencia.

Funciones básicas

- Funciones básicas de gestión de micrófonos
- El micrófono cuenta con cuatro modos operativos:
 - Abierto: botón de control de micrófonos con solicitud para tomar la palabra (automático)
 - Anulación: botón de control de micrófonos con anulación de los micrófonos activados (FIFO)
 - Voz: los micrófonos son activados por la voz
 - Push To Talk (Pulsar para hablar) (se mantiene el botón pulsado para hablar)
- Número de micrófonos abiertos de 1 a 4

- ▶ Diseño elegante y moderno (galardón IF)
- ▶ Control de hasta 245 unidades de participación
- ▶ Control de un número ilimitado de selectores de canales
- ▶ 2 x 32 canales de audio de alta calidad
- ▶ Función de control de PC

- Control básico de votación para el procedimiento de votación parlamentaria. Los delegados pueden registrar "Presente", "Sí", "No" y "Abstención". La unidad Centensus del presidente puede iniciar, detener o suspender la votación. Los resultados totales pueden mostrarse en las pantallas LCD de las unidades.
- Una función de megafonía que activa un tono de votación. Con este tono, el presidente puede indicar que va a comenzar una ronda de votaciones.
- Función básica de traducción simultánea con un máximo de 31 canales de idiomas más un canal de idioma de sala
- Función de intercomunicación básica con posibilidad de asignar operador de intercomunicación o presidente (el intérprete pueden llamar a ambos desde su pupitre)
- Control Automático de Cámaras sin PC
- Más posibilidades al utilizar software con PC de control o controladores remotos
- Ajuste de sensibilidad para la entrada de audio
- Ajuste del nivel para la salida de audio
- Función de inserción de audio para conectar dispositivos externos de procesamiento de audio y acopladores telefónicos
- Configuración de la CCU y del sistema mediante una pantalla y un único botón giratorio
- El instalador puede asignar a cada CCU un único nombre para facilitar la identificación.

- Lectura del medidor VU para supervisar las entradas y salidas de audio El audio puede supervisarse con auriculares
- Carcasa de 19" (2U) para el montaje en sobremesa o en bastidor
- Asas para facilitar el transporte

Controles e indicadores

Parte frontal

- Interruptor de encendido / apagado
- Pantalla LCD de 2 líneas de 16 caracteres para información y configuración de estado
- Control giratorio para desplazarse por los menús LCD

Parte posterior

- Dos indicadores de sobrecarga (LED rojo) para las salidas de la red DCN
- Dos indicadores de sobrecarga (LED rojo) para las conexiones ópticas
- Selector de voltaje

Interconexiones

Parte frontal

- Una salida estéreo para auriculares de 3,5 mm (0,14 pulg.)

Parte posterior

- Enchufe europeo con fusible integrado
- Dos enchufes DCN para la conexión de las unidades, más alimentación adicional Cada enchufe está protegido contra cortocircuitos (2 enchufes circulares de seis patillas)
- Dos conexiones de red óptica para Integrus, varios expansores de audio o un controlador de red
- Dos entradas de línea de audio simétricas XLR de tres patillas con separación galvánica
- Dos entradas de línea de audio asimétricas Cinch estéreo
- Dos salidas de línea de audio simétricas XLR de tres patillas con separación galvánica
- Dos salidas de línea de audio asimétricas Cinch estéreo
- Dos conectores de datos RS-232 serie para el control del PC y para el control de las cámaras y del diagnóstico

Piezas incluidas

Cantidad	Componente
1	DCN-CCU Unidad de control central
1	Juego de soportes de montaje para bastidor de 19 pulg.
1	Juego de pies
1	Instalación del sistema e instrucciones del usuario en CD-ROM
1	Cable de alimentación

Especificaciones técnicas

Especificaciones eléctricas

Tensión de alimentación	115/230 V +/- 10 %
Consumo de energía	170 W
Alimentación del sistema DCN	40 VCC, máx 65 W por enchufe DCN
Alimentación de red óptica	40 VCC, máx. 65 W
Alimentación eléctrica total	130 W
Conexión RS-232	2 conectores hembra Sub-D de nueve polos
Respuesta de frecuencia	30 Hz - 20 kHz (-3 dB a nivel nominal)
THD a nivel nominal	< 0,5 %
Atenuación de diafonía	> 85 dB a 1 kHz
Rango dinámico	> 90 dB
Relación señal/ruido	> 87 dBA

Entradas de audio

Entrada nominal XLR	-12 dBV (+/- 6 dB)
Entrada máxima XLR	+12 dBV
Entrada nominal Cinch	-24 dBV (+/- 6 dB)
Entrada máxima Cinch	+0 dBV

Salidas de audio

Salida nominal XLR	-12 dBV (+6 / -24 dB)
Salida máxima XLR	+12 dBV
Salida nominal Cinch	-24 dBV (+6 / -24 dB)
Salida máxima Cinch	+0 dBV

Especificaciones mecánicas

Montaje	Montarse en un bastidor de 19 pulgadas.
Dimensiones (Altura x anchura x profundidad)	
Uso para sobremesa, con patas	92 x 440 x 400 mm (3,6 x 17,3 x 15,7 pulg.)
Uso en un bastidor de 19 pulg., con soportes	88 x 483 x 400 mm (3,5 x 19 x 15,7 pulg.)
Delante de los soportes	40 mm (1,6 pulg.)
Detrás de los soportes	360 mm (14,2 pulg.)
Peso	7 kg
Color	Carbón (PH 10736) con plata

Información sobre pedidos

DCN CCU Unidad de control central

Unidad de control central DCN Next Generation para todas las regiones excepto América del Norte.
Número de pedido **DCN-CCU**

DCN CCU UL Unidad de control central UL/CSA

Unidad de control central DCN Next Generation UL/CSA para la región de América del Norte.
Número de pedido **DCN-CCU-UL**

DCN-CCU-JP Unidad de control central (JP)

Unidad de control central DCN Next Generation, versión japonesa.
Número de pedido **DCN-CCU-JP**

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Transmisor INT-TX Integrus

www.boschsecurity.es



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Innovación para tu vida



El transmisor constituye el elemento principal del sistema Integrus. Admite entradas analógicas o digitales, modula estas señales en ondas portadoras y transmite dichas ondas a radiadores ubicados en la sala.

Funciones básicas

- Modo auxiliar para distribuir música a todos los canales durante una pausa
- Modo esclavo para distribuir señales de otro transmisor que permite el uso de varias salas
- Modo de prueba que produce un tono de frecuencia diferente para cada entrada o canal, con un aumento gradual del tono a medida que se pasa de un canal a otro
- Ajuste de la sensibilidad de cada entrada para establecer los niveles de sonido con precisión
- Minirradiator de infrarrojos incorporado para supervisar el audio
- Indicación del estado de los radiadores y del sistema en la pantalla
- El instalador puede asignar a cada transmisor un nombre exclusivo para poder identificarlo fácilmente en un sistema con varios transmisores
- Además, el instalador puede asignar un nombre exclusivo a cada canal de audio. Estos nombres se pueden seleccionar en una lista de opciones o escribir de forma manual

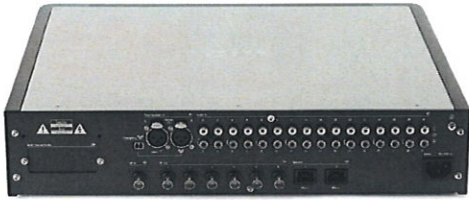
- ▶ Puede distribuir un máximo de 4, 8, 16 o 32 canales de audio
- ▶ Se puede utilizar con el sistema DCN Next Generation, o con sistemas analógicos como CCS 900
- ▶ Configuración flexible de los canales y sus modos de calidad para lograr una distribución eficaz
- ▶ La configuración del transmisor y del sistema se realiza mediante una pantalla y un único botón giratorio

- Distribución automática de mensajes de emergencia a todos los canales
- Función automática de espera/activado
- Sincronización automática con el número de canales en uso en un sistema DCN
- Sincronización automática de nombres de idiomas en uso en un sistema DCN Next Generation
- Dispositivo de alimentación eléctrica universal para utilizarlo en todo el mundo
- Elegante carcasa de 19 in (2U) para montaje en rack o en sobremesa
- Asas para facilitar el transporte

Controles e indicadores

- Pantalla LCD de 2 líneas de 16 caracteres para mostrar información de estado y la configuración del transmisor
- Botón giratorio para desplazarse por los menús y realizar ajustes
- Interruptor de encendido/apagado en el panel frontal

Interconexiones



Interconexiones (en la parte posterior del transmisor)

- Enchufe europeo macho para la conexión a la red eléctrica
- Ranura con conector de bus de datos de audio (H 15, hembra) que admite el módulo de intérpretes y entrada de audio simétrica LBB 3422/20
- 4, 8, 16 o 32 conectores tipo Cinch para la entrada de señales de audio asimétricas
- Dos tomas XLR para la entrada de señales simétricas de la sala, mensajes de emergencia o música
- Un conector de bloque de terminales para la distribución de mensajes de emergencia a todos los canales
- Toma para auriculares estéreo de 3,5 mm (0,14 in) para la supervisión de las entradas y los canales
- Un conector BNC para aceptar una señal de alta frecuencia de otro transmisor
- Seis conectores BNC para transmitir la señal de alta frecuencia a un máximo de 30 radiadores
- Dos conectores de red óptica para la conexión en un sistema DCN Next Generation*

* Se necesitan los cables de red óptica LBB 4416/xx

Piezas incluidas

Cantidad	Componente
1	Transmisor INT-TX Integrus
1	Se incluyen los soportes de montaje en rack de 19 in, las patas extraíbles y los accesorios de montaje de los módulos
1	Manual de instalación y funcionamiento del sistema en CD-ROM
1	Cable de alimentación

Especificaciones técnicas

Especificaciones eléctricas

Tensión de alimentación	De 100 a 240 VCA, 50/60 Hz
Consumo de energía	
En funcionamiento, máximo	55 W
En espera	29 W

Entradas de audio asimétricas	+3 dBV nominal, +6 dBV máximo (±6 dB) +15 dBV nominal, +18 dBV máximo (±6 dB)
Entradas de audio simétricas	De +6 a +18 dBV nominal
Conector de conmutación de emergencia	Entrada de control de emergencia
Salida de auriculares	De 32 ohmios a 2 kilohmios
Entrada de alta frecuencia	Nominal de 1 Vpp, mínimo de 10 mVpp, 75 ohmios
Salida de alta frecuencia	1 Vpp, 6 VCC, 75 ohmios

Especificaciones mecánicas

Dimensiones (Al. x An. x Pr.)	
Uso para sobremesa (con pies)	92 x 440 x 410 mm (3,6 x 17,3 x 16,1 in)
Uso en rack de 19 in (con soportes)	88 x 483 x 410 mm (3,5 x 19 x 16,1 in)
Delante de los soportes	40 mm (1,6 in)
Detrás de los soportes	370 mm (14,6 in)
Peso sin soportes y con patas	6,8 kg (15,0 lb)
Montaje	Soportes para montaje en rack de 19 pulgadas o de sobremesa Patas extraíbles para utilizar como componente autónomo en sobremesa
Color	Carbón (PH 10736) con plata

Información sobre pedidos

Transmisor de 4 canales INT-TX04

Transmisor de 4 canales Integrus.
Número de pedido **INT-TX04**

Transmisor de 8 canales INT-TX08

Transmisor de 8 canales Integrus.
Número de pedido **INT-TX08**

Transmisor de 16 canales INT-TX16

Transmisor de 16 canales Integrus.
Número de pedido **INT-TX16**

Transmisor de 32 canales INT-TX32

Transmisor de 32 canales Integrus.
Número de pedido **INT-TX32**

INT-TX04-US Transmisor de 4 canales (US)

Transmisor de 4 canales Integrus. Versión para EE. UU.
Número de pedido **INT-TX04-US**

INT-TX08-US Transmisor de 8 canales (US)

Transmisor de 8 canales Integrus. Versión para EE. UU.
Número de pedido **INT-TX08-US**

INT-TX16-US Transmisor de 16 canales (US)

Transmisor de 16 canales Integrus. Versión para EE. UU.

Número de pedido **INT-TX16-US**

INT-TX32-US Transmisor de 32 canales (US)

Transmisor de 32 canales Integrus. Versión para EE. UU.

Número de pedido **INT-TX32-US**

Accesorios de hardware

Módulo de intérpretes y entrada de audio simétrica

LBB 3422/20

Módulo de intérpretes y entrada de audio simétrica para interconectar el transmisor Integrus con los sistemas de debate CCS 900 y el pupitre de intérprete LBB 3222/04 de 6 canales.

Número de pedido **LBB3422/20**

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DCN IDESK Pupitre de intérprete

www.boschsecurity.es



Innovación para tu vida



El DCN-IDEK es un pupitre de intérprete para un solo usuario con un diseño moderno y elegante. Cumple totalmente con los estándares internacionales. Una posición clara de los controles en cada área funcional permite un manejo intuitivo sin errores. Incorpora un conector para enchufar los micrófonos (DCN-MICS y DCN-MICL, que hay que pedir por separado).

Funciones básicas

- Se puede instalar un máximo de seis pupitres por cabina.
- Instalación sobremesa o empotrado
- Micrófono conectable (DCN-MICS)
- Diseño ergonómico

Controles e indicadores

- Canal de salida A y B con indicación de selección y estado en la pantalla
- Todos los canales tienen el número de canal, el nombre del idioma y el nivel de calidad indicado en la pantalla
- Diseño ergonómico y funciones para personas con problemas de visión, como un relieve en el botón intermedio y sonidos para indicar que el micrófono está encendido/apagado, así como un doble relevo seleccionado

- ▶ Inmune a las interferencias de los teléfonos móviles
- ▶ Diseño ergonómico y funciones para las personas con problemas de visión
- ▶ Hasta 31 canales de traducción más el idioma de sala con un ancho de banda de audio de 20 kHz
- ▶ Una pantalla gráfica LCD con iluminación posterior para ver la información claramente en condiciones de baja iluminación
- ▶ 5 teclas de preselección para los idiomas de relé con indicación de activación en la pantalla

- Altavoz incorporado con selector de canales de idioma
- Reloj para indicar el tiempo de traducción transcurrido
- Función de disminución de la velocidad del discurso para indicar al orador que hable más despacio
- Solicitud de ayuda a un operador o persona responsable
- Teléfono de cabina e indicador de intercomunicación
- Selección automática de auriculares con micrófono cuando se conecten
- Fácil programación mediante menú en la pantalla tras acceder al modo de programación
- Tecla de micrófono con indicador rojo de "en el aire" y verde para "cabina inactiva"
- Tecla de silencio
- Tecla de ayuda
- Tecla de hablar despacio
- Teclas de llamada de intercomunicación de operador y presidente
- Tecla de mensaje con indicador LED amarillo
- Indicadores LED amarillos de llamada de intercomunicación y de teléfono
- Indicadores LED amarillos de canales A y B utilizados

- Control giratorio por fases para la configuración de canales (y otras funciones)
Al pulsar este botón se define el primer canal disponible
- LCD con iluminación posterior muestra el canal de salida activado y seleccionado con los números de canales y un nombre abreviado de los idiomas
- Control giratorio del volumen del altavoz
- Control giratorio del volumen de los auriculares
- Controles giratorios de tono agudo y bajo de los auriculares
- Tecla de activación/desactivación de aviso
- Cinco teclas de preselección de idiomas de relé
- Tecla de orador/relé automático con indicadores LED verdes
- Control giratorio por fases (igual que la sección de discurso) para seleccionar los idiomas de relé para las teclas de preselección de relé y el canal del altavoz Al pulsar este botón se define el primer canal disponible
- LCD con iluminación posterior, que muestra el idioma de relé seleccionado con los números de canal, los nombres abreviados y los indicadores de calidad También se muestra el canal del altavoz seleccionado con el nombre abreviado.

Interconexiones

- Enchufe para micrófono
- Enchufe tipo 180° Din de cinco patillas de conector de auriculares con micrófono o auriculares con cableado conforme con IEC 574-3
- Conectores de auriculares estéreo de clavija de 6,3 mm (0,25 pulg.) y 3,5 mm (0,14 pulg.)
- Cable DCN de 2 m con un conector circular moldeado de seis patillas
- Conector circular de seis patillas para conexión en bucle a la red DCN
- Conector de clavija modular de ocho patillas para la conexión a cabina, intercomunicación y señal de cabina en el aire

Especificaciones técnicas

Especificaciones eléctricas

Conexión de auriculares	
Respuesta de frecuencia	30 Hz - 20 kHz
Impedancia de carga	> 32 ohmios
Potencia de salida	2 x 30 mW/32 ohmios
Conexión de auriculares	
Respuesta de frecuencia	30 Hz - 20 kHz
Impedancia de carga	> 32 ohmios
Potencia de salida	60 mW/32 ohmios

Nivel de entrada nominal de micrófono	7 mVrms
Nivel de entrada de sobrecarga de micrófono	> 124 mVrms

Especificaciones mecánicas

Montaje	Independiente o montado en una mesa
Dimensiones (Altura x anchura x profundidad) (con micrófono)	82 x 330 x 170 mm (3,2 x 13 x 6,7 pulg)
Inclinación	25 grados
Peso	1,3 kg (2,87 libras)
Color de la parte superior	Plata (RAL 9022)
Color de la base	
DCN-IDESEK-L	Gris claro (RAL 000 7500)
DCN-IDESEK-D	Gris oscuro (PH 10736)

Información sobre pedidos

DCN IDESK L Pupitre de intérprete

Pupitre de intérprete DCN Next Generation con base de color claro. El micrófono se vende por separado. Número de pedido **DCN-IDESEK-L**

DCN MICS Micrófono corto conectable

Micrófono corto conectable DCN Next Generation, longitud de 310 mm (12,2 in), plateado. Número de pedido **DCN-MICS**

DCN MICL Micrófono largo conectable

Micrófono largo conectable DCN Next Generation, longitud de 480 mm (18,9 in), plateado. Número de pedido **DCN-MICL**

DCN IDESK D Pupitre de intérprete

Pupitre de intérprete DCN Next Generation con base de color oscuro. El micrófono se vende por separado. Número de pedido **DCN-IDESEK-D**

DCN MICS Micrófono corto conectable

Micrófono corto conectable DCN Next Generation, longitud de 310 mm (12,2 in), plateado. Número de pedido **DCN-MICS**

DCN MICL Micrófono largo conectable

Micrófono largo conectable DCN Next Generation, longitud de 480 mm (18,9 in), plateado. Número de pedido **DCN-MICL**

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Radiadores Integrus LBB 451x/00

www.boschsecurity.es



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Innovación para tu vida



Estos radiadores se utilizan para distribuir las señales de infrarrojos por toda la sala de conferencias, para que los delegados puedan escuchar el desarrollo de la conferencia mediante receptores de bolsillo personales.

Funciones básicas

- Conexión universal a la red eléctrica para permitir su uso en todo el mundo
- Sin ventilador (refrigerado por convección), lo que se traduce en un funcionamiento más silencioso y en un número menor de componentes móviles susceptibles al desgaste
- Indicadores LED para comprobar el estado del radiador
- Comunicación entre el radiador y el transmisor para que el operador pueda efectuar comprobaciones con facilidad
- Se activa automáticamente cuando el transmisor está activado y viceversa
- La ecualización automática garantiza la eficacia máxima de la transmisión con cables de diferente calidad
- La terminación automática de los cables simplifica la instalación

- ▶ LBB 4511/00 tiene una cobertura de hasta 1300 m² (para una señal portadora con 4 canales de calidad estándar)
- ▶ LBB 4512/00 tiene una cobertura de hasta 2600 m² (para una señal portadora con 4 canales de calidad estándar)
- ▶ El control automático de ganancia garantiza que los IRED (diodos emisores de infrarrojos) funcionen con la máxima eficacia
- ▶ Selección de potencia de salida para lograr una mayor eficacia y un funcionamiento más económico
- ▶ Seguridad para los ojos

- El circuito de protección térmica automáticamente modifica el ajuste del radiador de potencia máxima a potencia media si la temperatura es demasiado elevada
- El ángulo ajustable del radiador asegura la máxima cobertura
- Los IRED disponen de una cubierta protectora para facilitar la limpieza y el mantenimiento de las unidades
- Diseño atractivo, elegante y moderno

Controles e indicadores

- Dos LED amarillos, uno en cada panel del radiador, que indican que este panel está encendido y recibe ondas portadoras desde el transmisor
- Dos LED rojos, uno en cada panel del radiador, que indican que este panel se encuentra en el modo de espera
- Los LED rojos y amarillos encendidos de forma simultánea indican un fallo en el funcionamiento del panel del radiador
- El LED rojo parpadeante y los LED amarillos encendidos indican que el panel del radiador se encuentra en modo de protección térmica
- Interruptor de reducción de potencia para reducir la salida del radiador a media potencia

- Dos interruptores de compensación para compensar las diferencias de las longitudes de los cables entre el transmisor y los radiadores

Interconexión

- Conector Euro macho para la conexión a la red eléctrica
- Conectores de entrada y salida de alta frecuencia (2 x BNC) para la conexión al transmisor y la conexión por bucle a otros radiadores

Piezas incluidas

Cantidad	Componente
1	Radiador Integrus LBB 451x/00
1	Cable de alimentación
1	Soporte para montar la unidad en el techo
2	Placas para montar la unidad en soporte de suelo

Especificaciones técnicas

Especificaciones eléctricas

Tensión de alimentación	De 100 a 240 VCA, 50/60 Hz
Consumo de energía	
LBB 4511, en funcionamiento	100 W
LBB 4511, en modo en espera	8 W
LBB 4512, en funcionamiento	180 W
LBB 4512, en modo en espera	10 W
Número de IRED	
LBB 4511	260
LBB 4512	480
Intensidad de pico óptico total	
LBB 4511	12 W/sr
LBB 4512	24 W/sr
Ángulo de media intensidad	±22°
Entrada de alta frecuencia	1 Vpp nominal, mínimo 10 mVpp

Especificaciones mecánicas

Montaje	<ul style="list-style-type: none"> • Soporte de suspensión para montaje directo en el techo. • Placas para montaje en soportes para suelo con rosca M10 y 1/2 in Whitworth. • Soporte opcional para montaje en pared (LBB 3414/00) disponible. • Seguridad para los ojos.
Dimensiones (Al. x An. x Pr.)	

LBB 4511 sin soporte	200 x 500 x 175 mm (7,9 x 19,7 x 6,9 in)
LBB 4512 sin soporte	300 x 500 x 175 mm (11,0 x 19,7 x 6,9 in)
Ángulo del radiador	
en soporte de suelo	0, 15 y 30°
para montaje en pared o en techo	0, 15, 30, 45, 60, 75 y 90°
Peso	
LBB 4511 sin soporte	6,8 kg (15 lb)
LBB 4511 con soporte	7,6 kg (17 lb)
LBB 4512 sin soporte	9,5 kg (21 lb)
LBB 4512 con soporte	10,3 kg (23 lb)
Color	Bronce

Información sobre pedidos

Radiador Integrus LBB 4511/00

Radiador Integrus de potencia media para cubrir hasta 1300 m² (13.993 ft²).

Número de pedido **LBB4511/00**

Radiador Integrus LBB 4512/00

Radiador Integrus de alta potencia para cubrir hasta 2600 m² (27.986 ft²).

Número de pedido **LBB4512/00**

Radiador Integrus LBB 4511/00-US (EE. UU.)

Radiador Integrus de potencia media para cubrir hasta 1300 m² (13.993 ft²). Versión para EE. UU.

Número de pedido **LBB4511/00-US**

Radiador Integrus LBB 4512/00-US (EE. UU.)

Radiador Integrus de alta potencia para cubrir hasta 2600 m² (27.986 ft²). Versión para EE. UU.

Número de pedido **LBB4512/00-US**

Accesorios de hardware

Soporte para montaje en pared LBB 3414/00

Soporte de pared para radiadores LBB 3414/00.

Número de pedido **LBB3414/00**

Maleta de transporte INT-FCRAD para radiador

Maleta de transporte INT-FCRAD para 1 radiador.

Número de pedido **INT-FCRAD**

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Receptores de bolsillo Integrus LBB 4540

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BOSCH

Innovación para tu vida



Estos receptores de bolsillo de diseño ergonómico cuentan con la tecnología más avanzada en electrónica, incluido un circuito integrado especialmente diseñado, a fin de garantizar el máximo rendimiento y una larga duración de la batería. Los receptores de bolsillo se pueden utilizar para la distribución de música y de idiomas.

Funciones básicas

- La señal de audio se silencia automáticamente si es demasiado débil, con lo que se garantiza que el usuario solo reciba audio de alta calidad
- Se puede utilizar con baterías desechables (2 pilas alcalinas AA, no incluidas) o con un paquete de baterías recargables NiMH respetuosas con el medio ambiente LBB 4550/10 (no incluidas)
- No se consume energía cuando los auriculares están desconectados
- Clip para llevarlo cómodamente
- Modo de medición para comprobar la cobertura del radiador con toda facilidad
- Diseño atractivo y moderno
- Hasta 200 horas de funcionamiento con pilas alcalinas
- Hasta 75 horas de funcionamiento con el paquete de baterías

- ▶ Circuito integrado especialmente diseñado para obtener el máximo rendimiento y una larga duración de la batería
- ▶ Sistema electrónico de recarga integrado en el chip que garantiza un rendimiento de recarga óptimo
- ▶ Pantalla LCD de dos dígitos con indicaciones de estado de la recepción y de la batería
- ▶ El número de canales disponibles siempre es idéntico al número de canales que utiliza el sistema, de modo que el usuario no tiene que desplazarse por los canales sin utilizar.

- Las baterías tardan 1 hora y 45 minutos en recargarse por completo

Controles e indicadores

- Pantalla LCD de dos dígitos con el número del canal e indicaciones de estado de la recepción y de la batería
- Botón de encendido/apagado
- Ajuste deslizante de control del volumen
- Botones de selección de canal (arriba/abajo)
- LED indicador de carga

Interconexiones

- Toma para auriculares de clavija estéreo de 3,5 mm (0,14 pulg.)
- Contactos de batería para usar con pilas alcalinas AA
- Conector para usar con los paquetes de baterías LBB 4550/10
- Contactos de carga en la parte izquierda del receptor de compatibilidad con las unidades de carga LBB 4560

Especificaciones técnicas

Especificaciones eléctricas

Nivel de irradiancia de infrarrojos	4 mW/m ² por señal portadora
Ángulo de sensibilidad media	±50°

Nivel de salida de los auriculares a 2,4 V	450 mVrms (voz a volumen máximo, auriculares de 32 ohmios)
Rango de frecuencia de salida de los auriculares	De 20 Hz a 20 kHz
Impedancia de salida de los auriculares	De 32 ohmios a 2 kilohmios
Relación señal/ruido máxima	80 dB(A)
Tensión de alimentación	De 1,8 a 3,6 V, 2,4 V nominal
Consumo de energía a 2,4 V (tensión de la batería)	15 mA (voz a volumen máximo, auriculares de 32 ohmios)
Consumo de energía (en espera)	< 1 mA

Especificaciones mecánicas

Dimensiones (Al. x An. x Pr.)	155 x 45 x 30 mm (6,1 x 1,8 x 1,2 in)
Peso	
Sin las baterías	75 g (0,16 lb)
Con las baterías	125 g (0,27 lb)
Color	Carbón con plateado

Información sobre pedidos

Receptor de infrarojos LBB 4540/04

Receptor de bolsillo Integrus de 4 canales.
Número de pedido **LBB4540/04**

Receptores de bolsillo LBB 4540/08

Receptor de bolsillo Integrus de 8 canales.
Número de pedido **LBB4540/08**

Receptor de bolsillo LBB 4540/32

Receptor de bolsillo Integrus de 32 canales.
Número de pedido **LBB4540/32**

Accesorios de hardware

LBB 4550/10 Paquetes de baterías NiMH Integrus (10 u)

Paquetes de baterías de NiMH Integrus para receptores de bolsillo (10 unidades).
Número de pedido **LBB4550/10**

Paquete de baterías de NiMH LBB 4550/00

Paquete de baterías de NiMH Integrus para receptores de bolsillo.
Número de pedido **LBB4550/00**

Maleta de carga LBB 4560/00

Maleta de carga Integrus para receptores de bolsillo, para uso portátil.
Número de pedido **LBB4560/00**

Bastidor de carga LBB 4560/50

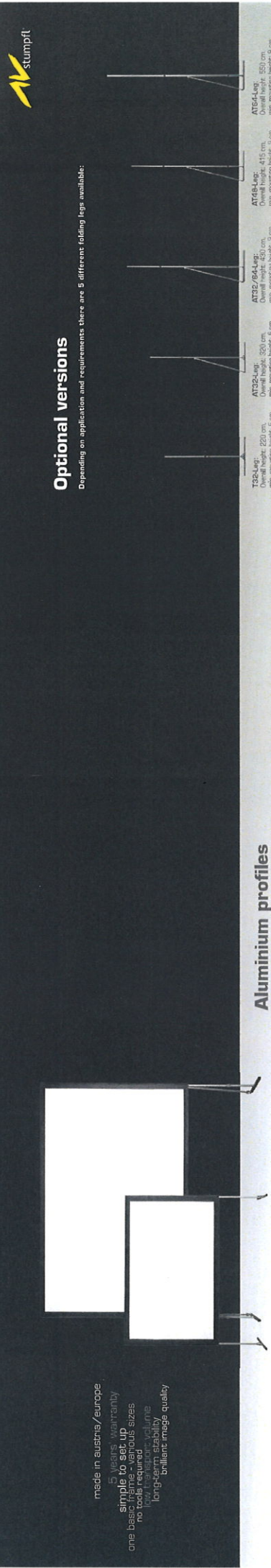
Bastidor de carga Integrus para receptores de bolsillo, para instalaciones fijas.
Número de pedido **LBB4650/50**

Representada por:

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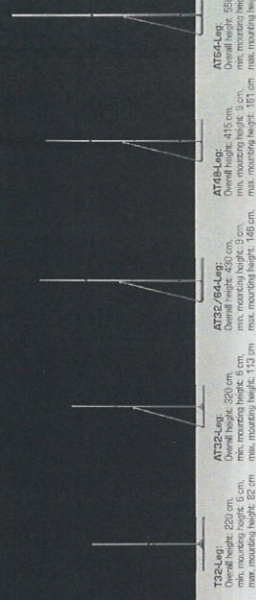
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Optional versions

Depending on application and requirements, there are 5 different folding legs available:

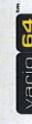


Aluminium profiles

Made of special extruded and hardened aluminium alloy.



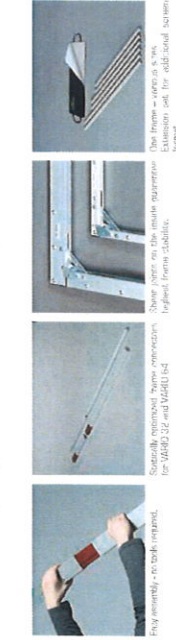
VARIO 32
 Standard profile: 32 x 32 mm (1 1/4" x 1 1/4")
 This profile is used for standard formats up to 600 x 800 cm.



VARIO 64
 Standard profile: 64 x 32 mm (2 1/2" x 1 1/4")
 Specially adapted, this frame profile is used for standard formats up to 800 x 600 cm.

Vario - one frame, various sizes, made to measure.

Vario is easy and flexible: throughout the modular building block frame system VARIO, one basic frame can be used for a variety of different screen sizes. You only need the corresponding screen material and the necessary extension parts. Additional central supports allow image widths of more than 25 m. Stability, weight and transport volume have been optimised and are in perfect harmony. To ensure optimum packing for each size we have developed two types of profiles made of hardened aluminium alloy - VARIO 32 and VARIO 64.



Standard screen material

The screen materials that are standard supply have proven their worth all over the world in professional applications by showing long-term stability, strength and brilliant image quality.



Front projection screen material
FLEX WHITE CI
 Suitable for film ratio of 48 to 210 cm
 Weight: 210g / sqm
 Thickness: 1,25 mm
 Gain factor: 1,02

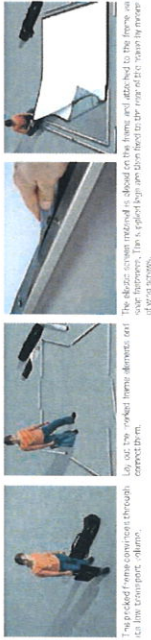


Rear projection screen material
FLEX REAR CI
 V-Lock® for „Hot Spot“ formation
 Suitable for heights up to 110 cm
 (maximum 200 cm) - for depths, rounded by 21,7 cm
 Weight: 210g / sqm
 Gain factor: 1,18

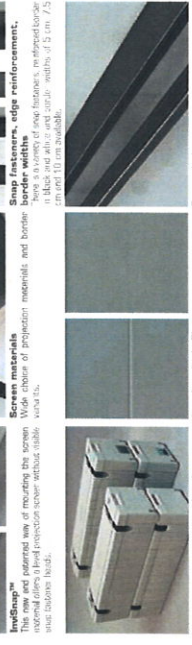
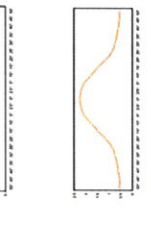


Rear projection screen material
FLEX REAR MO
 Swallows the height up to 305 cm
 Weight: 305g / sqm
 Gain factor: 2,35

The modular plugin frame system



Plug assembly - no tools required.
 Screen is mounted by the extension system for VARIO 32 and VARIO 64.
 The frame is made of aluminium guaranteeing optimal frame stability.
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 The plug-in frame allows easy connection of the frame sections through the transport columns.
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Inlaying
 Inlaying is a method of mounting the screen material into a frame without visible fasteners.

Screen materials
 The choice of projection material and border is dependent on the application.

Snap fasteners, edge reinforcement.
 Snap fasteners and edge reinforcement are available in a variety of sizes and materials.

Frame design
 Frame and legs are also available in a variety of materials and finishes.

Seamless Optics
 Seamless Optics is a technology that allows the screen to be viewed from any angle without visible joints.

Transport cases with buckle belt
 The buckle and strap are made of high-quality materials to ensure maximum safety and stability.

Easy Flip
 The flipper with eyelet can be attached to the screen or any point. Use applicable with Vario 32 or Vario 64.

Screen connection
 For securing the plug-in connection in system VARIO 32 it is VARIO 34.



087NWB WIND UP 3 SECTION BLACK ZINC

ADVANTAGES:

	type 14		370.0		30.0		n/a
	21.40		167.0		128.0		181.0
	30.00						

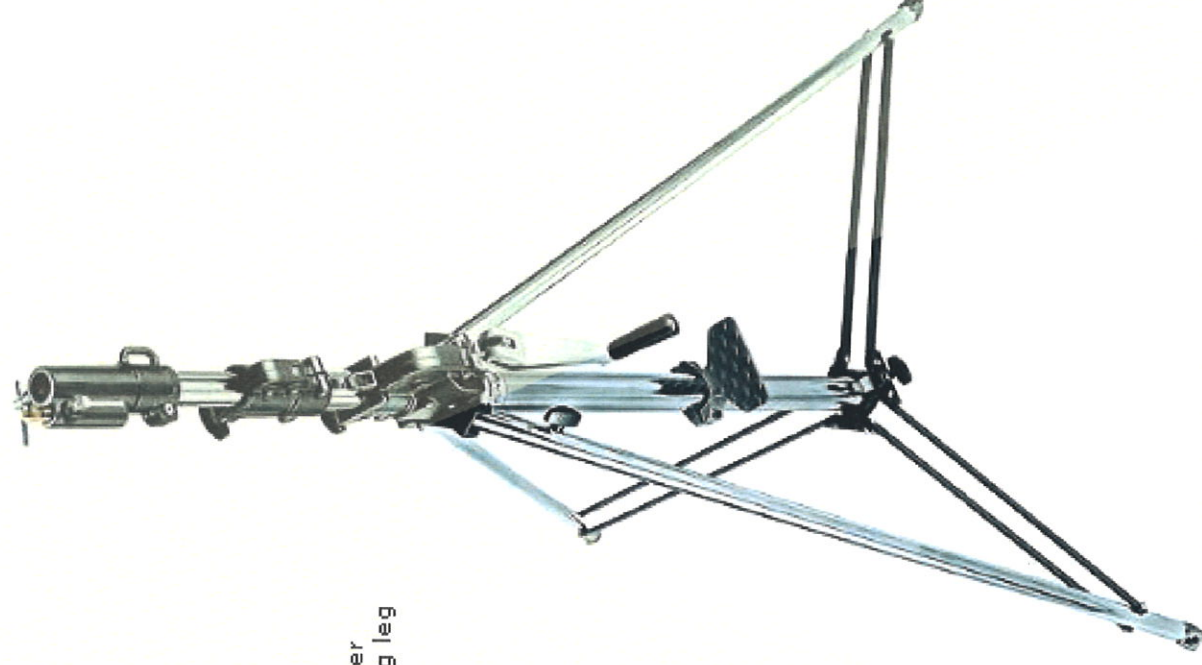
SUITABLE FOR:

Black steel stand with geared column. 2 risers extend simultaneously at an elevation of 1.75 inches per handle turn. Safety cable ensures simultaneous retrieval of all sections. 3 sections, 2 risers, 1 levelling leg

087NWB FEATURES

closed length	181.0 cm
footprint max diameter	128.0 cm
load capacity	30.00 kg
maximum height	370.0 cm
minimum height	167.0 cm
weight	21.40 kg
load capacity at maximum extension at 6° inclination	30.0 kg
color	black
material	chrome steel
geared column	yes
attachment (top)	type 14
section centre column	3
risers stand number	2
levelling leg	1
stand leg size	Ø30mm
column tube diameter	55,45,38mm
suggested wheels	104,104G

FULL TECHNICAL SPECIFICATIONS



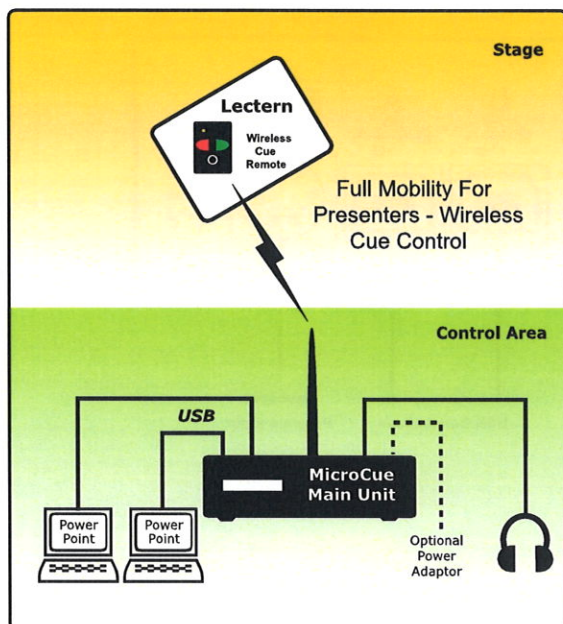
MicroCue²

MicroCue2 is the next generation of compact presentation cueing system, designed for the presenter on the move. Featuring dual USB ports for the simultaneous cueing of multiple versions of a slide presentation, MicroCue2 utilizes the renowned Interspace Industries wireless remote cueing system that provides full presenter mobility on stage. The control unit displays colour coded cues via a visual display as well as producing audible cue sounds which can be monitored via headphones if required. The line-of-sight range in an enclosed venue typically exceeds 75m.

The small, portable and ruggedly designed MicroCue2 can be set up in minutes and is powered via either of the USB connections to a computer or an external power pack (optional accessory). The presenter can signal either 'forward', 'back' or 'go to black' cues, during their presentation. Using the USB interfaces they can directly control either or both of the USB ports that are connected to computers running PowerPoint or KeyNote etc, presentation software.

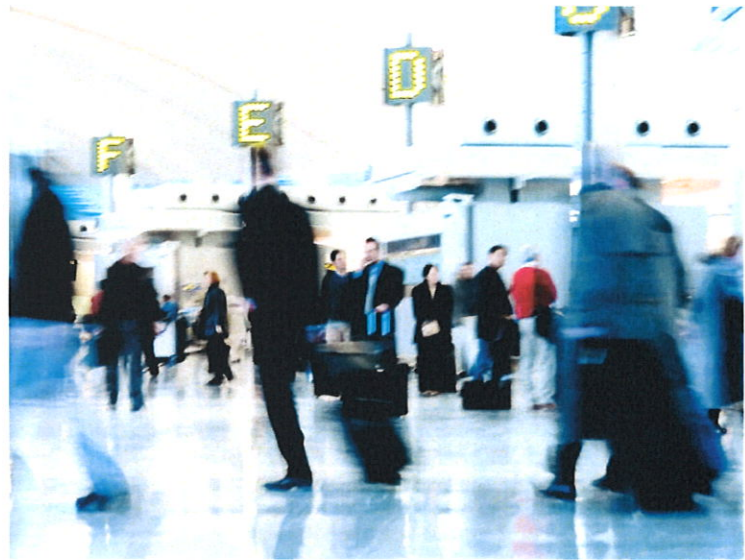
This provides for the simultaneous control of a main and back-up, translated or a special notes versions of the presentation that is required. The remote control cue buttons can also be programmed to control the presentation in specific ways (e.g. return to the beginning of the presentation, or jump to a specific slide number).

A new style narrow handset that includes a Green Laser is now available.



Interspace Industries

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call: +44 (0) 1462 600 101
email: moreinfo@interspaceind.com
web: www.interspaceind.com



Professional Presentations on the Move!

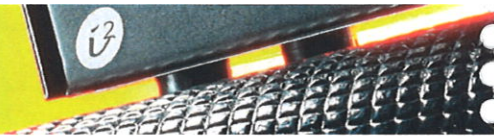


Main Features

- ✓ Tri-button presentation control (with tactile feedback) via wireless handset
- ✓ Dual USB interface ports for direct control of up to two computers
- ✓ Audible cue via headphone jack socket
- ✓ Rugged portable design
- ✓ Multicolour visual cues
- ✓ Simple setup
- ✓ Fully CE and FCC compliant

3 Year Limited Factory Warranty





Specifications

Signals:

RF 434.075 MHz
RF Signal type: FSK modulation

Connections

BNC for detachable aerial
Mini jack socket for audio output
PS2 style keyboard connector for keyboard programming
2 x B-type USB (1.1) connector
DC socket for optional power supply

Accessories included:

1 x wireless handset (option of 2 or 3 button with or without laser)
2 x USB series A-B cables
1 x Aerial

Batteries for Transmitter handset

Original 1 x Mn1604 (9V)
Laser 1xAA (TR) & 1xCR2 (Laser)

Required user parts:

Mini jack stereo headphones if discreet tone is required
12V DC 500mA optional power pack If using without USB

Dimensions and weights mm (inch):

Main Unit

DxWxH: 84 (3 3/10") x 125 (4 9/10") (inc BNC) x 41 (1 6/10") (inc feet)
Weight: 210g (7.4oz)

Transmitter

Original handset
DxWxH: 25 (1") x 63 (2 1/2") x 93 (3 6/10")
Weight: 100g (3.5oz)
Laser handset
Laser <1mW 532nm (green)
DxWxH: 130 (4 1/8") x 55 (2 1/4") x 30 (1 1/4")
Weight 116g (4g)

Aerial

L x Dia: 142mm (5 9/16") x 14mm (17/32")
(433 MHz)
Weight: 25g (1oz)

