

**Montarbo**  
Made in Italy

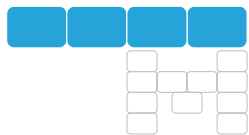
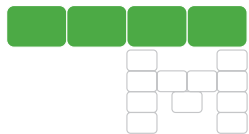
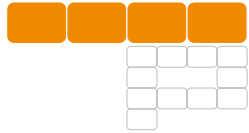


PROFESSIONAL SOUND SYSTEMS

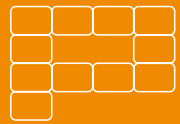
ENGLISH



# table of contents



<b>PRO</b> .....	<b>2 - 9</b>
W28As - W24As - W22As - W18As .....	4
BX series .....	6
M44A .....	8
<b>MUSIC</b> .....	<b>10 - 25</b>
W17As - W14As - W440A .....	12
T18A - T15A - T12A - T10A .....	14
NM250A - MT160A .....	16
DTRIX15 .....	18
119SA - SW540 - 112SA .....	20
M22A - M11A .....	22
MP6 - MP4 .....	24
<b>RECOMMENDED COMBINATIONS</b> .....	<b>26 - 27</b>
<b>MIXING CONSOLES</b> .....	<b>28 - 41</b>
784 - 783 .....	30
MX28 - MX20 .....	32
SX17 - SX18 - SX19 .....	34
SX17 Powered - SX18 Powered .....	36
XD75 - AD75 .....	38
Effects description .....	40
459 - 458 .....	41
<i>a bit of history</i> .....	<b>43</b>



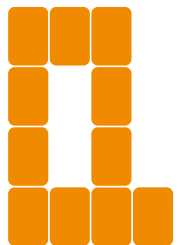
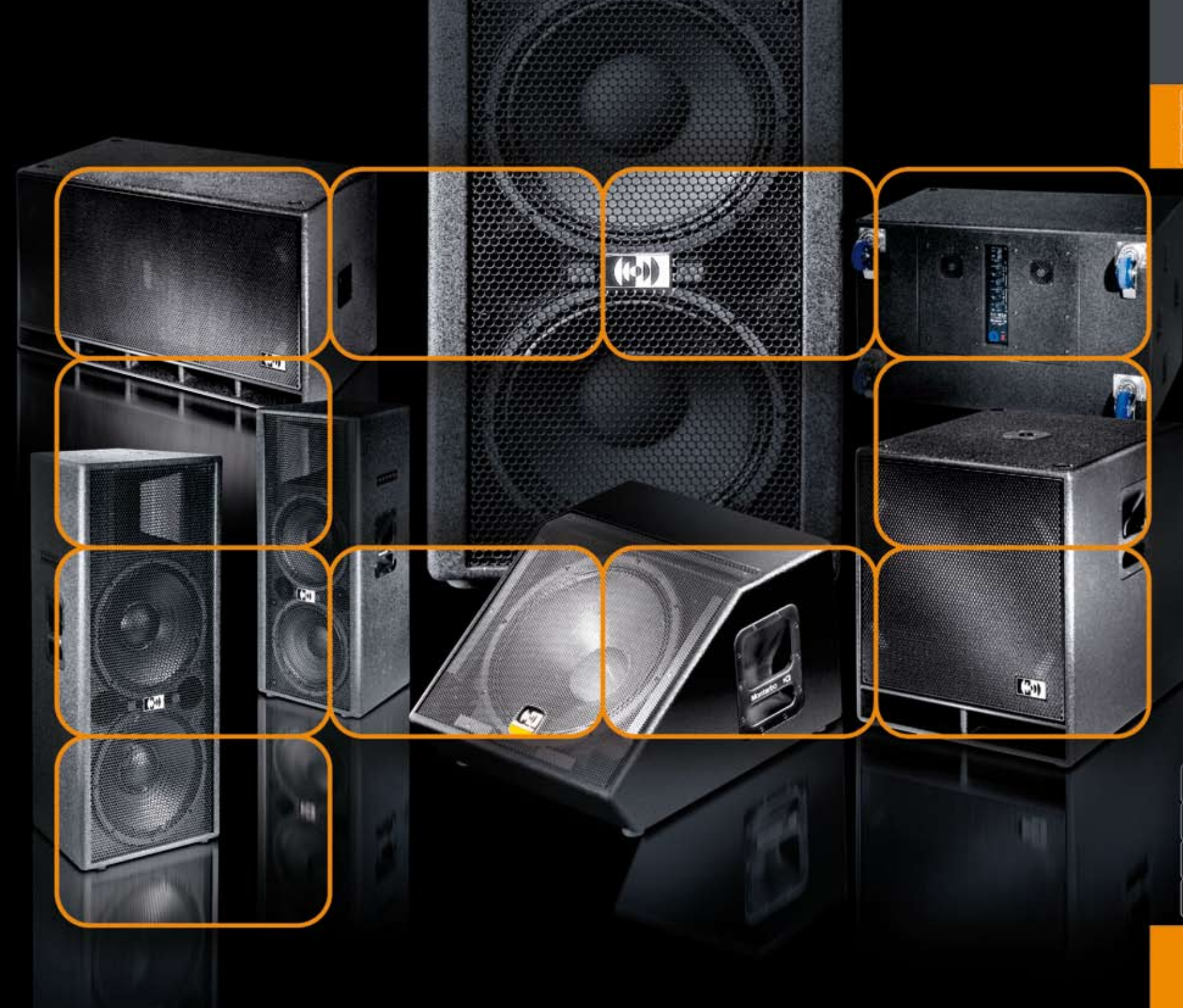
All the items featured in this section have been designed and built to provide musicians, rental companies, sound technicians and installers with highly professional work tools, in keeping with the key principles that have always constituted the cornerstones of our product philosophy: quality, reliability and simplicity.

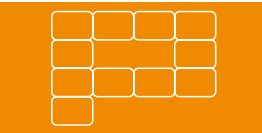
**Quality**, first and foremost, so that the result of your efforts, i.e. sound, may be enjoyed by those listening to it with the greatest fidelity possible, without distortion or coloration, with maximum purity and the right intensity.

**Reliability** that is translated into ease of use and improved yield in terms of the investment involved in purchasing the system.

**Simplicity**, in order to cut down on installation, wiring work and system adjustment time, while, at the same, ensuring flawless performance, allowing you to spend your time pursuing more creative goals and ever-improved sonority.

For over 40 years our research work has been focusing on improving sound quality by means of flexible technology that allows even non-experts to obtain high-level results, while enabling true experts to achieve unprecedented excellence and absolute top quality, without limits and with absolute peace of mind.





W28As

W24As

W22As

W18As

### bi-amplified active loudspeaker systems

Designed to provide maximum definition, cleanness and high sound pressure levels, the bi-amplified loudspeaker systems W28As, W24As, W22As and W18As ensure outstanding sound performance in the most critical sound reinforcement applications. Suitable for both indoor and outdoor use, their construction details and incredible versatility make them ideal both for sound engineers and musicians.

In spite of their compact size and light weight, they boast all the features of much bulkier and heavier systems.

W28As, W24As and W22As may be flown using industry standard flying hardware.



### FEATURES

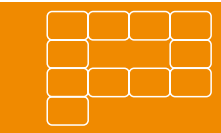
- These loudspeaker systems have been designed and engineered to meet the most demanding professional requirements in the most diverse situations with the maximum ease of use and total flexibility, plus all the reliability you have come to expect from Montarbo systems.
- Typical features of much bulkier, heavier systems: high sound pressure levels, response extended to the extremes of the range, very low distortion, cleanness of the medium range, high dynamics.
- Complete synergy of acoustic and electronic design elements. Dedicated power amplifiers and control electronics ensure extraordinary performance, improving speakers drive while protecting them from over-excitation under high peak power conditions. The built-in electronics includes:
  - 2, class AB, Mosfet amplifiers, each one fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on.
  - 2 active dynamic processors, optimise the specific features of each component and provide direct control of the operation of the systems, ensuring a constantly flat frequency response. They feature independent time constants (and operating thresholds that are sensitive to line voltage) and limit any excessive voice coil movement under the most demanding operating conditions. Unimpeded operation is guaranteed even when the system is subjected to extreme line voltage excursions.
  - a high slope active electronic crossover (24dB/oct. Linkwitz-Riley) guaranteeing phase coherency and perfect overlapping of acoustic emissions of the transducers in the crossover region.

- The output stages are cooled by an improved forced air heat exchanger, equipped with a temperature-controlled, low-noise, fan that ensures safe and cool operation under any operating conditions.
- Neodymium-based components, custom designed to Montarbo specifications, combine high performance with weight savings.
- Construction and components are conform to the highest professional standards for maximum reliability. The trapezoidal cabinets, reinforced with internal steel braces, are made from high grade phenyl-glued multiply birch and finished with highly resistant antiscratch polyurethane black paint. They are fitted with ergonomically designed side handles for easy transportation and set-up and a sturdy steel protection grill.
- In the models W28As and W24As the cabinet is fitted with stand adapter and embodies on both sides slide guides for standard anchor rings to allow the loudspeaker suspension. On its rear side there are two recessed rings for tilt adjustment of the suspended speaker. In the model W22As the cabinet is fitted with stand adapter and 8 x M10 threaded suspension points.

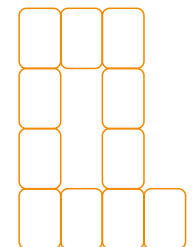
### APPLICATIONS

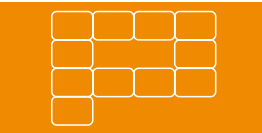
- W28As, W24As and W22As are suitable for both indoor and outdoor use, stadiums, arenas, concert halls, medium-to-large theatres and night clubs, large-scale events.
- W18As can be used alone or in multiple arrays to satisfy any need in short throw / wide coverage or long throw / narrow coverage in the widest range of applications, both indoor and outdoor.

SPECIFICATIONS	W28As - active bi-amplified	W24As - active bi-amplified	W22As - active bi-amplified	W18As - active bi-amplified
Frequency response	45 Hz ÷ 20 kHz ±3dB	50 Hz ÷ 20 kHz ±3dB	60 Hz ÷ 20 kHz ±3dB	40 Hz ÷ 20 kHz ±3dB
Max. SPL	137 dB	134 dB	131 dB	131 dB
Components	custom designed	custom designed	custom designed	custom designed
bass frequencies	2 x 15" neodymium magnet, high efficiency woofers (3" voice coil)	2 x 12" neodymium magnet, high efficiency woofers (3" voice coil)	2 x 10" neodymium magnet, high efficiency woofers (2.5" voice coil)	18" high efficiency woofer (3" voice coil)
mid/high frequencies	2" neodymium driver (4" voice coil, titanium diaphragm) constant directivity horn (60°H x 40°V)	2" neodymium driver (3" voice coil, titanium diaphragm) constant directivity horn (60°H x 40°V)	2" neodymium driver (3" voice coil, titanium diaphragm) constant directivity horn (60°H x 40°V)	2" driver (3" voice coil, titanium diaphragm) constant directivity horn (90°H x 60°V)
Built-in power amplifier	2 MosFet, class AB, dedicated power units	2 MosFet, class AB, dedicated power units	2 MosFet, class AB, dedicated power units	2 MosFet, class AB, dedicated power units
Max. output power	1200 W (LF 900 W + HF 300 W)	1050 W (LF 800 W + HF 250 W)	850 W (LF 600 W + HF 250 W)	850 W (LF 600 W + HF 250 W)
Dimensions / Weight	W 48 x H 109.6 x D 40 cm / 47 kg	W 41.4 x H 94.3 x D 36.8 cm / 42.5 kg	W 34.5 x H 82 x D 39 cm / 34 kg	W 54 x H 87 x D 45 cm / 55.5 kg



PRO





## BXseries

BX182A

BX152A

BX181A

BX151A

### active subwoofers

BX is the series of Montarbo active subwoofers intended to re-define performance level in this category. They are characterized by their top performance, which is the result of state-of-the-art engineering and extremely high-quality components and workmanship. The BX series includes four models: BX182A (dual 18" woofer), BX152A (dual 15" woofer), BX181A (single 18" woofer) and BX151A (single 15" woofer). Providing top performance and absolute ease of operation, BX182A, BX152A, BX181A and BX151A are built to last show after show, year after year. As you've come to expect from all Montarbo products.



### FEATURES

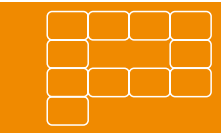
- Construction and components are conform to the highest professional standards for maximum reliability. The cabinets, made from high grade phenyl-glued multiply birch and finished with highly resistant antiscratch polyurethane black paint, are fitted with ergonomically designed side handles for easy transportation and set-up and a sturdy steel protection grill. Models BX181A and BX151A are also fitted with stand adapter.
- The compact cabinets make for easy transport (further facilitated in mod BX182A thanks to 4 sturdy castors) and installation, but they don't compromise in terms of low frequency response extension and exact reproduction of transients.
- Each of them is equipped with low frequency drivers featuring neodymium alloy magnets and light-alloy die-cast frames, which ensure significant weight reduction. These custom designed woofers incorporate innovative manufacturing technologies that result in greater power handling with lower moving coil temperature, thus guaranteeing large reliability margins. The cone surround and the voice coil former and suspension are manufactured using new hi-tech materials, with improved fatigue, wear and aging behaviour. They guarantee time constant performances, with no degradation of specifications, even under difficult environmental conditions.

- The on-board electronics, the fruit of cutting-edge engineering, include self-diagnostics circuitry and a sophisticated speaker protection circuit that monitor the operation of the internal power amplifiers in real time. The latter, developed in the Montarbo R&D labs, is a **Dynamic EQ Controller (D.E.Co.)**, that integrates the functions of a dynamic equalizer with those of a compressor/limiter, whose operating thresholds are dynamically set, in real time, by the amplifier's available power reserve. The D.E.Co. eliminates power amplifier clipping, even with very high input signals, and the dynamic equalizer controls the frequency response, thus guaranteeing a full and controlled bass response, without compromising the available dynamic range.
- An internal stereo electronic cross-over (that may be bypassed for wide-band use) drives the internal low frequency power amplifiers and the external active loudspeakers (or external power amplifiers) for the middle and high frequency range.
- The absolute phase of the subwoofer may be reversed, allowing for the use of satellite loudspeakers having a non-standard phasing, or for multi-subwoofer installation, thereby avoiding possible phase cancellations.
- The internal power amplifiers (MosFet, class AB) were designed around an innovative driver stage that guarantees the lowest possible distortion, while providing excellent dynamic and tonal performance. The output stages are cooled by a forced air heat exchanger, equipped with a temperature-controlled, low-noise, variable-speed fan that ensures safe and cool operation under any operating conditions.

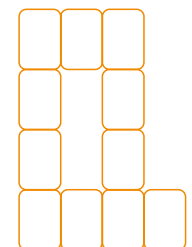
### APPLICATIONS

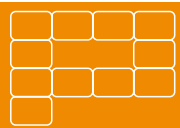
- Suitable for both indoor and outdoor use, stadiums, arenas, concert halls, medium to large theatres and clubs, large-scale events.

SPECIFICATIONS	BX182A - active bi-amplified	BX152A - active	BX181A - active	BX151A - active
Frequency response	30Hz ÷ 100Hz (-3dB)	30Hz ÷ 100Hz (-3dB)	30Hz ÷ 100Hz (-3dB)	36Hz ÷ 100Hz (-3dB)
Max SPL (half space)	139 dB	134 dB	132 dB	127 dB
Components (custom)	2 x 18" neodymium magnet woofers (4" voice coil)	2 x 15" neodymium magnet woofers (4" voice coil)	18" neodymium magnet woofer (4" voice coil)	15" neodymium magnet woofer (3" voice coil)
Stereo electronic crossover	100Hz, 24dB/oct Linkwitz-Riley	100Hz, 24dB/oct Linkwitz-Riley	100Hz, 24dB/oct Linkwitz-Riley	100Hz, 24dB/oct Linkwitz-Riley
Built-in power amplifier	2 MosFet, class AB, dedicated power units Dynamic EQ Controller (D.E.Co.)	1 MosFet, class AB, dedicated power unit Dynamic EQ Controller (D.E.Co.)	1 MosFet, class AB, dedicated power unit Dynamic EQ Controller (D.E.Co.)	1 MosFet, class AB, dedicated power unit Dynamic EQ Controller (D.E.Co.)
Max. output power	2300 W (2 x 1150 W)	1200 W	1000 W	500 W
Dimensions / Weight	W 105 x H 64 x D 74 cm / 85 Kg	W 94 x H 57 x D 49 cm / 63 Kg	W 54 x H 65 x D 60 cm / 45 Kg	W 50 x H 58 x D 47 cm / 38 Kg



PRO





# M44A

## bi-amplified active stage monitor

Compact size, high sound pressure and high margins of gain before feedback, combined with extreme clarity and maximum transparency.

This is what musicians and sound technicians demand from a stage monitor; and this is what they'll find in our M44A model, all in a compact, lightweight and ultra-flat package, capable of being heard without being seen by the audience.

M44A features a coaxial driver design which ensures maximum phase coherence.

This monitor has been specially designed to provide elevated sound pressure levels without neglecting any detail of the low-pitched range.



## FEATURES

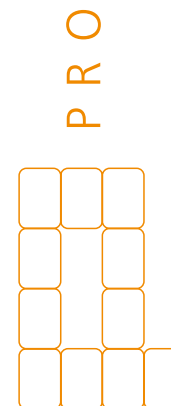
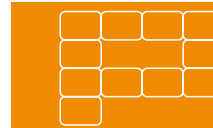
- High sound pressure level with maximum definition, absolutely flat frequency and phase responses.
  - Low susceptibility to feedback. Excellent intelligibility, no distortion or coloration.
  - Complete synergy of acoustic and electronic design elements. Dedicated power amplifiers and control electronics ensure outstanding working performance.
- The built-in electronics includes:
- 2, class AB, Mosfet amplifiers, each one fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on.
- The two on-board power amplifiers deliver a total output power of 500 W divided into 350 W for the bass section and 150 W for the mid/high section.
- 2 active dynamic processors optimise the specific features of each component and provide direct control of the operation of the systems, ensuring a constantly flat frequency response. They feature independent time constants (and operating thresholds that are sensitive to line voltage) and limit any excessive voice coil movement under the most demanding operating conditions. Unimpeded operation is guaranteed even when the system is subjected to extreme line voltage excursions.
  - a high slope active electronic crossover (24dB/oct. Linkwitz-Riley) guaranteeing phase coherence and perfect overlapping of acoustic emissions of the transducers in the crossover region.

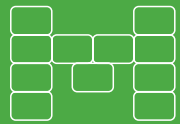
- Neodymium-based transducers - entirely custom designed to Montarbo specifications - and toroidal transformer provide a significant weight saving.
- M44A utilizes a specially designed coaxial unit allowing for great sonic accuracy: it houses a 15" neodymium magnet woofer and a 1.5" neodymium compression driver with titanium diaphragm.
- Design and construction meet the highest professional standards for maximum reliability:
  - strong and sturdy cabinet with highly resistant polyurethane paint finish and steel protection grid;
  - low turbulence tuning ports;
  - controls and connections are conveniently placed on one side of the cabinet for increased ease of use;
  - ergonomically designed handle, balanced to the box's centre of gravity, make transport easier.
- The dual angle cabinet's profile allows for maximum setup flexibility and helps in optimizing listening, from short or long distances.

## APPLICATIONS

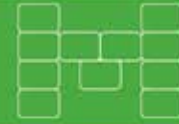
- M44A is the perfect solution for drummers and bass players, guaranteeing excellent performance even under the most challenging stage conditions.

SPECIFICATIONS	M44A - active bi-amplified
Frequency response	42 Hz ± 20 kHz ±3dB
Max SPL	129 dB
Components bass frequencies	custom designed coaxial loudspeaker 15" high efficiency neodymium magnet woofer (3" voice coil)
mid/high frequencies	1.5" neodymium compression driver titanium diaphragm - 3" voice coil)
Built-in power amplifiers	2 MosFet, class AB, dedicated power units
Max. output power	500 W (LF 350 W + HF 150 W)
Dimensions / Weight	W 50 x H 35.5 x D 58.3 cm / 23.8 kg

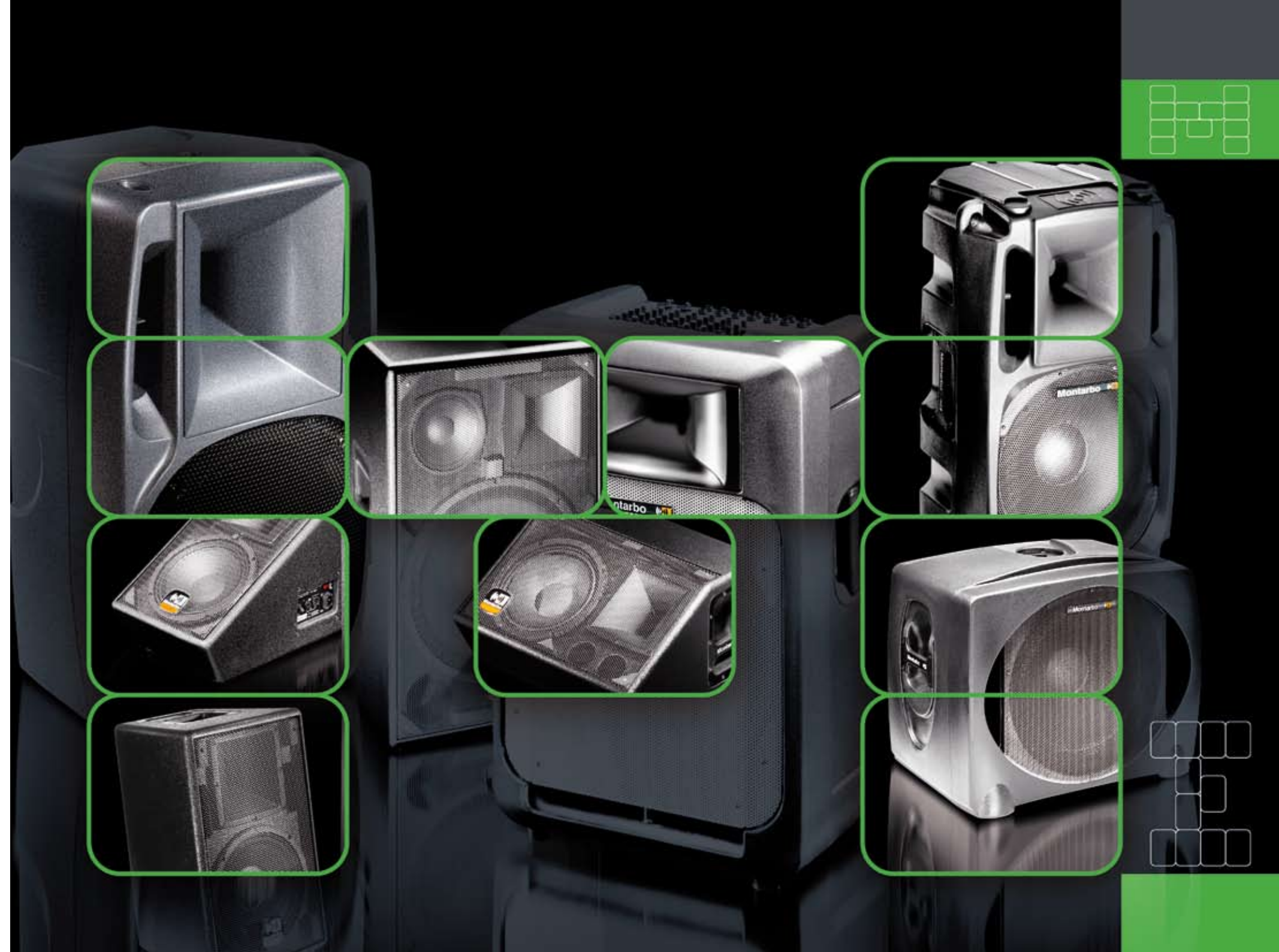
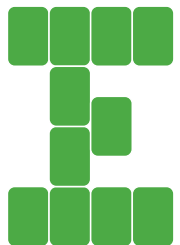


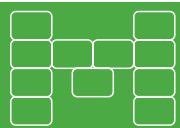


We started our mission in professional sound reinforcement almost fifty years ago. Montarbo has built its reputation on reliable sound products inspired directly by the needs of the end user. We promote technological advancement with every new design, but still our development is committed to create user-friendly products where ease-of-use plays a major role beside the bare figures of data sheets and technical specifications. All the items featured in this catalogue are self-powered - the first Montarbo self-powered enclosures came out in 1965 ! - and most of them are available also as passive version



MUSIC





W17As

W14As

W440A

Passive Versions  
W17P and W440P

### bi-amplified active loudspeaker systems

Simplicity is the core of the project for these loudspeaker enclosures with a unique and innovative design. Made from high-density polyethylene, they are not only beautiful, but also resistant, indestructible and recyclable.

Flexible, rapid and safe assembling in fixed and mobile installations thanks to the 6 fly points included in the cabinet shape.

Ideal for use as main system for music performances, theatre, P.A, or as a stage monitor, W17As, W14As and W440A are exceptionally accurate, highly versatile systems, providing a rich and broad range of sound experiences in the most diverse situations.



### FEATURES

- W17As, W14As and W440A stand out for their unique and innovative design which includes 6 sturdy fly points (patented) completely integrated in the cabinet and designed to hang or angle the speaker in the air as required, using any type of hook available on the market. This idea eliminates the need for additional screw-up components and ensures easy, quick and very safe installation in any situation. Their shape allows also horizontal installation for use as stage monitors.

- High sound pressure levels without distortion.
- Precise and detailed acoustic image.

- Neodymium-based components, custom designed to Montarbo specifications, combine high performance with weight savings.
- Complete synergy of acoustic and electronic design elements. The electronics integrated in each of the three systems includes:

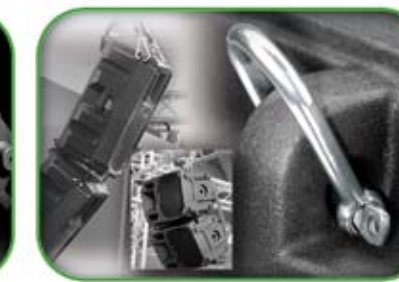
- 2, class AB, Mosfet amplifiers, each one fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on.
- 2 active dynamic processors, optimise the specific features of each component and provide direct control of the operation of the systems, ensuring a constantly flat frequency response. They feature independent time constants (and operating thresholds that are sensitive to line voltage) and limit any excessive voice coil movement under the most demanding operating conditions. Unimpeded operation is guaranteed even when the system is subjected to extreme line voltage excursions.
- a high slope active electronic crossover (24dB/oct. Linkwitz-Riley) guaranteeing phase coherence and perfect overlapping of acoustic emissions of the transducers in the crossover region.

- In mod. W440A a 3-band EQ allows to adjust the frequency response to the various applications, resulting in increased versatility.

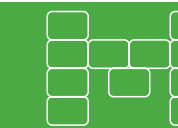
- W17P and W440P passive versions also available. W17P and W440P utilize the same custom components of the active versions. Power handling: 600 W / 8 Ohms for W17P; 400 W / 8 Ohms for W440P.

### APPLICATIONS

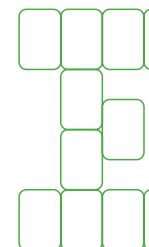
- Wide variety of applications: voice reinforcement systems, night clubs, houses of worship, theatrical sound reinforcement, audio-visual systems, conference centers, presentations, ballrooms, small to medium/large-sized main sound reinforcement systems, fill-in sound and side-fills.



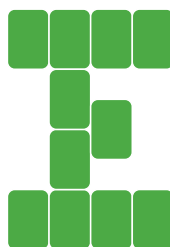
SPECIFICATIONS	W17As - active bi-amplified	W14As - active bi-amplified	W440A - active bi-amplified
Frequency response	40 Hz ÷ 20 kHz ± 3dB	45 Hz ÷ 20 kHz ± 3dB	45 Hz ÷ 20 kHz ± 3dB
Max. SPL	130 dB	129 dB	128 dB
Components	custom designed	custom designed	custom designed
bass frequencies	15" neodymium magnet woofer (3" voice coil)	12" neodymium magnet woofer (3" voice coil)	12" neodymium magnet woofer (2.5" voice coil)
mid/high frequencies	1.4" driver (2.5" voice coil, titanium diaphragm) constant directivity horn (60°H x 40°V)	1.4" driver (2.5" voice coil, titanium diaphragm) constant directivity horn (60°H x 40°V)	1" driver (2" voice coil) constant directivity horn (90°H x 70°V)
Built-in power amplifier	2 MosFet, class AB, dedicated power units	2 MosFet, class AB, dedicated power units	2 MosFet, class AB, dedicated power units
Max. output power	600 W (LF 450 W + HF 150 W)	600 W (LF 450 W + HF 150 W)	400 W (LF 300 W + HF 100 W)
Dimensions / Weight	W 48 x H 74 x D 40.5 cm / 32 kg	W 41 x H 68.3 x D 36 cm / 26 kg	W 40 x H 65 x D 35.5 cm / 18.5 kg
Passive versions	W17P: 600 W / 8 Ohms		W440P: 400 W / 8 Ohms
Dimensions / Weight	W 48 x H 74 x D 40.5 cm / 25 kg		W 40 x H 65 x D 35.5 cm / 14.5 kg

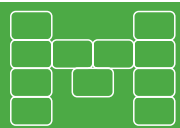


MUSIC



MUSIC





T18A

T15A

T12A

T10A

Passive Versions

T18P, T15P, T12P and T10P

### bi-amplified active loudspeaker systems

We designed T18A, T15A, T12A and T10A pursuing a simple but elusive goal: to achieve the maximum acoustic efficiency in a remarkably compact and lightweight enclosure. These bi-amplified systems are capable of extremely high sound pressure levels and enhanced bass relative to their compact dimensions. Precise and detailed acoustic image is guaranteed by exceptionally linear frequency and phase responses. T18A, T15A, T12A and T10A meet both the musician's and the sound company's requirements. Their versatility makes them the ideal choice for those who constantly work either in small or medium/large venues.



### FEATURES

- High sound pressure levels without distortion.
- Precise and detailed acoustic image.
- Trapezoidal shape for optimal sound diffusion and more flexible installation.
- Neodymium-based components, custom designed to Montarbo specifications, combine high performance with weight savings.
- The frequency response of T18A extends so deeply into the lower octaves that the bass quality is full and engaging without the need for subwoofers.
- Complete synergy of acoustic and electronic design elements. Dedicated power amplifiers and control electronics ensure extraordinary performance, improving speakers drive while protecting them from over-excursion under high peak power conditions. The electronics integrated in each of the four systems includes:
  - 2, class AB, Mosfet amplifiers, each one fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on.
  - 2 active dynamic processors, optimise the specific features of each component and provide direct control of the operation of the systems, ensuring a constantly flat frequency response. They feature independent time constants (and operating thresholds that are sensitive to line voltage) and limit any excessive voice coil movement under the most critical conditions. Unimpeded operation is guaranteed even when the system is subjected to extreme line voltage excursions.

- a high slope active electronic crossover (24dB/oct. Linkwitz-Riley) guaranteeing phase coherency and perfect overlapping of acoustic emissions of the transducers in the crossover region.

- Available also as passive versions T18P, T15P, T12P and T10P.

Also the passive versions are equipped with custom designed components.

T18P and T10P utilize the same components of the active versions.

T15P and T12P utilize high-efficiency woofers (15" and 12" respectively) for the bass section while their mid-high section utilizes the same components of the active versions.

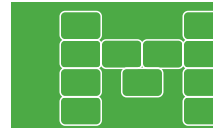
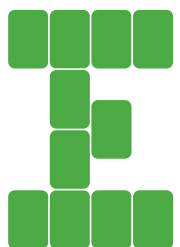
Power handling: 500 W / 8 Ohms for T18P; 400 W / 8 Ohms for T15P and T12P; 300 W / 8 Ohms for T10P.

### APPLICATIONS

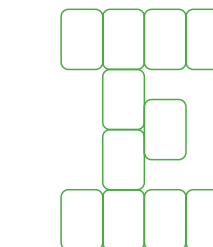
- Suitable for a wide variety of applications: compact voice reinforcement systems, piano-bars, night clubs, houses of worship, theatrical sound reinforcement, audio-visual systems, conference centers, presentations, ballrooms, small (T10A) to medium/large-sized (T12A, T15A, T18A) main sound reinforcement systems.

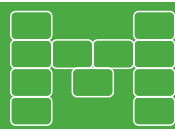
SPECIFICATIONS	T18A - active bi-amplified	T15A - active bi-amplified	T12A - active bi-amplified	T10A - active bi-amplified
Frequency response	38 Hz ÷ 20 kHz ±3dB	40 Hz ÷ 20 kHz ±3dB	45 Hz ÷ 20 kHz ±3dB	48 Hz ÷ 20 kHz ± 3dB
Max. SPL	130 dB	130 dB	129 dB	127 dB
Components	custom designed	custom designed	custom designed	custom designed
bass frequencies	18" neodymium magnet woofer (3" voice coil)	15" neodymium magnet woofer (3" voice coil)	12" neodymium magnet woofer (3" voice coil)	10" neodymium magnet woofer (2.5" voice coil)
mid frequencies	8" midrange	6" midrange	6" midrange	1" driver (2" voice coil)
high frequencies	1" neodymium driver (2" voice coil)	1" driver (2" voice coil)	1" driver (2" voice coil)	constant directivity rotatable horn (90°H x 70°V)
Built-in power amplifier	2 MosFet, class AB, dedicated power units	2 MosFet, class AB, dedicated power units	2 MosFet, class AB, dedicated power units	2 MosFet, class AB, dedicated power units
Max. output power	500 W (LF 350 W + HF 150 W)	500 W (LF 350 W + HF 150 W)	500 W (LF 350 W + HF 150 W)	300 W (LF 200 W + HF 100 W)
Dimensions / Weight	W 52 x H 78 x D 41 cm / 40 kg	W 45 x H 72.6 x D 40 cm / 28 kg	W 42 x H 61.6 x D 35 cm / 23.5 kg	W 31 x H 50.5 x D 33 cm / 16 kg
Passive versions	T18P: 500 W / 8 Ohms	T15P: 400 W / 8 Ohms	T12P: 400 W / 8 Ohms	T10P: 300 W / 8 Ohms
Dimensions / Weight	W 52 x H 78 x D 41 cm / 35 kg	W 45 x H 72.6 x D 40 cm / 24 kg	W 42 x H 61.6 x D 35 cm / 19 kg	W 31 x H 50.5 x D 33 cm / 11 kg

MUSIC



MUSIC





NM250A

MT160A

Passive Versions  
NM250P and MT160P

**ultra-compact active loudspeaker systems**

These self-powered high performance systems combine the high power and sound pressure levels typical of much bigger and heavier professional systems with the sonic accuracy and precision of hi-fi systems in a compact package that's incredibly easy to transport and fast to set-up. Designed for small concerts, press conferences, talk-shows they give you the fidelity, the dynamics and the versatility you ask to a reference monitor system for your home studio.

Indoor and outdoor, in small auditoriums, clubs, restaurants, and small venues MT160A and the bi-amplified system NM250A are the choice for sonic quality and ease of use.

NM250A



MT160A



**FEATURES**

- Design and construction meet a quality standard that is seldom available for products in this category, offering top-level reliability, flexibility and performance.
- Multi-angled cabinet design, allowing for either vertical (P.A) or horizontal (stage monitor) installation.
- The transducers are custom built to Montarbo specifications and operate in complete synergy with the dedicated electronic circuitry.
- **NM250A - bi-amplified active**  
The cabinet, made from injection moulded polypropylene, is equipped with steel protection grid and two threaded inserts (M8). Recessed carrying handle, stand adaptor with safety lock, mating feet and cavities for safe cabinet stacking and low turbulence tuning ports are all built into the shell of the cabinet.  
The two built-in amplifiers are class AB MosFet units designed to deliver both high power and sonic accuracy. Each of them is fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on. Dedicated active processors optimize the linearity of the frequency response as well as the working performance of the systems.  
The electronics integrated in the NM250A also includes a high slope active electronic crossover (24dB/oct.) guaranteeing phase coherency and perfect overlapping of acoustic emissions of the transducers in the crossover region.

NM250A is equipped with a balanced input switchable to accept both line and microphone level, a balanced output (link), a peak LED indicator and a 2-band equalizer (LF 80Hz, HF 10kHz) which allows changing the response curve of the system depending on the requirements of each different application. This enables optimizing the NM250A's working condition for each specific requirement whether it is used for example in a conference hall, on stage for monitoring and many other situations.



**• MT160A - active**

The cabinet, made from passivated, injection moulded, plastic, is equipped with a sturdy perforated steel protective grill and with 4 standard (M5) inserts, for fast and easy mounting both in touring systems and in fixed installations. The low-turbulence tuning port, in addition to lending the cabinet a particularly attractive appearance, improves the definition of the low frequency range. MT160A incorporates a dedicated, class AB, MosFet amplifier, fitted with transducers protections and a soft-start circuit, to reduce the peak current drain at switch-on, and controlled by an active processor designed to optimize the linearity of the frequency response as well as the working performance of the system.  
MT160A is fitted with a 3-input built-in mixer featuring one mic-level balanced input with volume control, two line-level balanced inputs (mixable) with volume control, peak LED indicator, one line-level output and an EQ filter (1.2 kHz).

- Available also as passive versions MT160P and NM250P. They utilize the same custom components of the active versions.

Power handling: 200 W / 8 Ohms for NM250P; 90 W / 8 Ohms for MT160P.

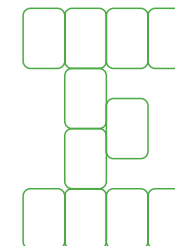
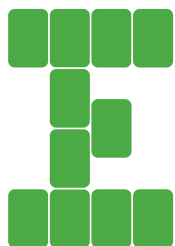
**ACCESSORIES**

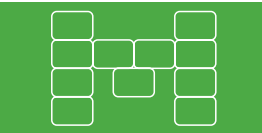
- SM2 microphone stand adaptor (optional accessory for MT160A and MT160P).

**APPLICATIONS**

- Unlimited range of applications both indoor and outdoor: as personal monitor, as mini PA system for live music, piano-bar, pubs, clubs, places of worship, conferences, restaurants, retail outlets, small auditoriums, gym and health clubs, in the home studio and many other situations.

SPECIFICATIONS	NM250A - active bi-amplified	M160A - active
Frequency response	58Hz ÷ 20kHz ±2dB	70 Hz ÷ 19,5 kHz ± 2dB
Max. SPL	121 dB	117,5 dB
Components	custom designed	custom designed
bass frequencies	8" high efficiency, wide excursion woofer (2" voice coil)	6" 1/2 full bandwidth unit with diecast frame, coaxial double cone, treated cellulose diaphragm
mid/high frequencies	1" compression driver (1" voice coil) constant directivity horn (90°H x 60°V)	
Built-in power amplifier	2 MosFet, class AB, dedicated power units	1 MosFet, class AB, dedicated power unit
Max. output power	250 W (LF 200 W + HF 50 W)	80 W
Dimensions / Weight	W 25 x H 42.5 x D 23 cm / 9 kg	W 21.6 x H 30 x D 22.5 cm / 6.9 kg
Passive versions	NM250P: 200 W / 8 Ohms	MT160P: 90 W / 8 Ohms
Dimensions / Weight	W 25 x H 42.5 x D 23 cm / 7.1 kg	W 21.6 x H 30 x D 22.5 cm / 5.5 kg





# DTRIX15

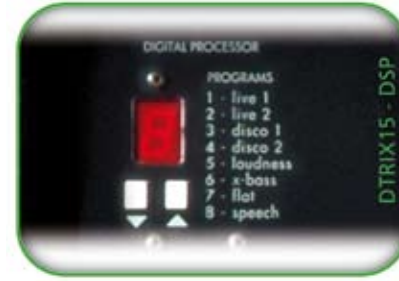
## digitally controlled integrated loudspeaker system

DTRIX15 is a digitally controlled integrated loudspeaker system made up of 2 passive satellites and an active subwoofer. Inside the subwoofer's cabinet, 3 power amplifiers and some sophisticated digital control electronics make the whole system work at its best in multiple situations and in the simplest manner.

The high sound quality and the great versatility of DTRIX15 make it a really exciting work tool, ideal both as a mobile amplification system and for small fixed installations in clubs and pubs.



Stands are not included



## FEATURES

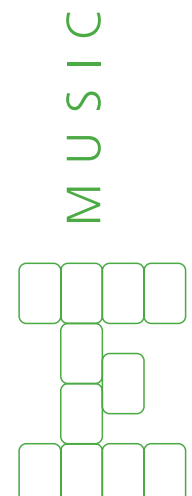
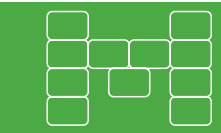
- The high sound pressure delivered by the DTRIX15 allows to cope with situations that were previously unthinkable with such a compact and lightweight system.
- Design and construction meet a quality standard that is seldom available for products in the same category, offering top-level reliability, flexibility and performance.
- Transducers have been developed to Montarbo specifications expressly for this project to ensure best quality and performance.
- Each of the 3 built-in amplifiers features a class AB MosFet output stage to guarantee top performance in terms of dynamics, distortion and warmth of sound. They are also fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on. The output stages are cooled by a thermostatically controlled low turbulence fan that ensures safe and cool operation under any operating conditions.
- A dedicated digital dynamics processor, based on a latest generation 56 bit DSP and 24 bit Delta-Sigma converters, performs all the filtering functions and dynamic range's and frequency response's control. The 8 different presets make the DTRIX15 an extraordinarily versatile system. In fact, by just pressing a button, it can be transformed, adapting it to all needs and tastes: from jazz to the DJ-set.

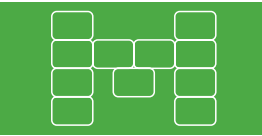
- The control and connection panel of the subwoofer is fitted with a 7-segment display, which indicates the program currently selected by means of the two pushbuttons, and an input level control with peak LED indicator. The 8 different frequency response's presets available are: LIVE 1 and LIVE 2: two different response curves suitable for live performances. DISCO 1 and DISCO 2: two presets for sound reinforcement of DJ-sets in clubs, bars or medium venues. LOUDNESS: for recorded music or live performances requiring a warm and intimate sound quality. XBASS: mid to low sound pressure levels (for piano-bar or similar). FLAT: for applications requiring a "natural" uncoloured sound.

## APPLICATIONS

- The applications range from small gigs to piano bar, from sound systems for medium venues to the use as a stage monitor for electronic instruments (particularly for drum-sets).

SPECIFICATIONS	SUBWOOFER - active bi-amplified	SATELLITES (2) - passive - SAT.81
Frequency response	35Hz ÷ 100Hz (-3dB)	58 Hz ÷ 20 kHz
Max SPL (half space)	128 dB	121 dB
Components (custom)	15" high efficiency woofer	8" high efficiency woofer 1" compression driver loaded by a 90° x 60° horn
Digital Crossover	100Hz, 24dB/oct	
Built-in power amplifier	3 MosFet, class AB, dedicated power units 24-bit digital processor; automatic trouble shooting	
Total output power	700 W	
bass (subwoofer)	400 W	
mid-high (satellites)	150 + 150 W	
Dimensions / Weight	W 50 x H 55 x D 46 cm / 33 kg	W 25 x H 42.5 x D 23 cm / 7.1 kg





SW540

112SA

**active subwoofers**

All the Montarbo active subwoofers are fitted with stereo electronic crossover, highest quality custom loudspeakers, powerful amplifiers and dedicated processors. They are capable of producing extremely high sound pressure levels and are incredibly easy to set up and operate. Inside them, every single component is already wired and properly chained to the others. Once the crossover divides the signal in two frequency ranges, the upper range is sent to the external active loudspeakers while the low range drives the sub's loudspeaker through the amplifier and the processor. Deep, powerful sound up to the last watt. No distortions, no breaks-up, no troubles. Thanks to the built-in electronics, Montarbo subwoofers combine with any loudspeaker system, no matter what brand, model or kind, to implement sound performances which are hard to believe.



**FEATURES**

- 112SA is made from multiply birch with highly resistant antiscratch polyurethane paint finish, while the SW540 is made from high-density polyethylene. SW540 stands out through the innovative design of the one-piece cabinet. Very sturdy and non-resonant, it ensures enormous advantages in terms of convenience and sound performance.
- SW540 is fitted with an adaptor for satellite supporting pole SM4 (optional accessory).
- High sound pressure level, absolutely flat frequency and phase responses.
- Excellent transient reproduction.
- Extremely low distortion for maximum low-frequency clarity.
- Components are custom designed to Montarbo specifications to ensure best quality and performance.

- Complete synergy of acoustic and electronic design elements. The electronics integrated in each of the two systems includes:
  - a class AB, Mosfet amplifier, fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on.
  - an active dynamic processor, which optimises the specific features of the loudspeaker and provides direct control of the operation of the system, ensuring a constantly flat frequency response. It features an operating threshold that is sensitive to line voltage, limiting any excessive voice coil movement under the most demanding operating conditions. Unimpeded operation is guaranteed even when the system is subjected to extreme line voltage excursions.
  - STEREO high slope electronic crossover (24dB/oct) for easily integrating the subwoofer with any sound system.

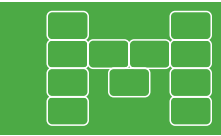
**ACCESSORIES**

- SM4 satellite supporting pole (optional accessory for SW540).

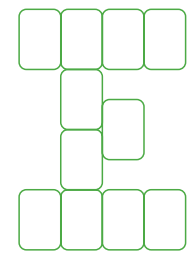
**APPLICATIONS**

- Suitable for both indoor and outdoor use, concert halls, theatres, clubs, medium sized venues.

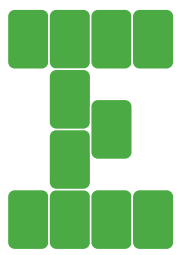
SPECIFICATIONS	SW540 - active	112SA - active
Frequency response	38 Hz ÷ 120 Hz ± 3dB	40 Hz ÷ 150 Hz ± 3dB
Max SPL (half space)	128 dB	124 dB
Components (custom)	15" high efficiency woofer	12" high efficiency woofer
STEREO electronic crossover	120 Hz, 24 dB/oct	150 Hz, 24 dB/oct
Built-in power amplifier	1 MosFet, class AB, dedicated power unit	1 MosFet, class AB, dedicated power unit
Max. output power	550 W	450 W
Dimensions / Weight	W 62 x H 53 x D 46 cm / 32 kg	W 46 x H 40 x D 34.5 cm / 24 kg

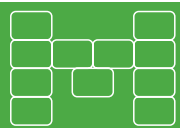


MUSIC



MUSIC





M22A

M11A

### active stage monitors

Optimum performance requires first and foremost excellent monitoring. Accurate voice reproduction and maximum coherence of the acoustic image are indispensable to give one's best. That's why performers and sound engineers are constantly on the look for powerful and reliable monitors.

Montarbo powered monitors are compact, efficient and ready to go anywhere, the ideal companion whether you are playing in the livest of concerts, on the hottest stage or in a small club they will be your reference point for all your performance.



### FEATURES

- High sound pressure level with maximum definition, absolutely flat frequency and phase responses.
- Low susceptibility to feedback. Excellent intelligibility, no distortion or coloration.
- Complete synergy of acoustic and electronic design elements.
- Components are entirely custom designed to Montarbo specifications.
- Toroidal transformers provide a significant weight saving.
- Design and construction conform to the highest professional standards for maximum reliability and durability:
  - strong and sturdy cabinet with highly resistant polyurethane paint finish and steel protection grid
  - low turbulence tuning ports
  - controls and connections conveniently placed on one side of the cabinet for increased ease of use
  - ergonomically designed handles, balanced to the box's centre of gravity, make transport easier.

#### • M22A - biamplified active

It is equipped with a 10" NEODYMIUM magnet woofer and a 1" compression driver coupled to a Montarbo designed constant directivity horn. The horn may be rotated 90° for reducing the horizontal coverage and limiting feedback in nearby microphones.

The dual angle cabinet's profile of M22A allows for maximum setup flexibility and helps in optimizing listening, from short or long distances.

The sound pressure M22A is able to produce, as well as its sonic accuracy, are absolutely unusual in conventional stage monitors of its size.

The built-in electronics includes:

- 2, class AB, Mosfet amplifiers, each one fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on.



- 2 active dynamic processors, optimise the specific features of each component and provide direct control of the operation of the systems, ensuring a constantly flat frequency response. They feature independent time constants (and operating thresholds that are sensitive to line voltage) and limit any excessive voice coil movement under the most demanding operating conditions.

- a high slope active electronic crossover (24dB/oct. Linkwitz-Riley) guaranteeing phase coherency and perfect overlapping of acoustic emissions for the transducers in the crossover region.

#### • M11A - active

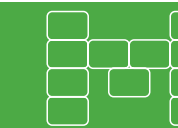
The combination of a 10" woofer with a 1" compression driver, coupled to a Montarbo designed constant directivity horn (that may be rotated 90°) is capable of a truly high sound pressure. The frequency response extends to 50Hz at the low end, thus able to satisfy the musicians' requirement in the most diverse music genres.

M11A incorporates a dedicated, class AB, MosFet amplifier, fitted with transducers protections and a soft-start circuit, to reduce the peak current drain at switch-on, and controlled by an active processor designed to optimize the linearity of the frequency response as well as the working performance of the system. A passive crossover guarantes phase coherency and perfect addition of acoustic emissions for the transducers in the crossover region.

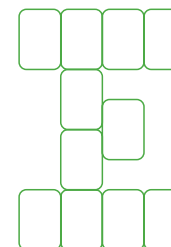
### APPLICATIONS

- If you are looking for an affordable, compact, self-powered stage monitor with professional quality sound, M11A is an excellent solution.
- Designed to meet the most demanding requirements in professional applications, M22A high-performance self-powered, biamplified stage monitor provides high sound pressure level with maximum definition and absolutely flat frequency and phase response.

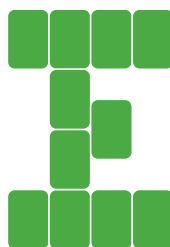
SPECIFICATIONS	M22A - active bi-amplified	M11A - active
Frequency response	45 Hz ÷ 20 kHz ±3dB	50 Hz ÷ 20 kHz ±3dB
Max SPL	127 dB	124 dB
Components	custom designed	custom designed
bass frequencies	10" high efficiency neodymium magnet woofer (2.5" voice coil)	10" high efficiency woofer (2" voice coil)
mid/high frequencies	1" compression driver (2" voice coil) constant directivity horn (90°H x 70°V)	1" compression driver (2" voice coil) constant directivity horn (90°H x 70°V)
Built-in power amplifiers	2 MosFet, class AB, dedicated power units	1 MosFet, class AB, dedicated power unit
Max. output power	300 W (LF 200 W + HF 100 W)	180 W
Dimensions / Weight	W 49.4 x H 27 x D 43.2 cm / 17 kg	W 31 x H 37.4 x D 51 cm / 13.2 kg

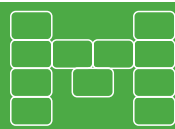


MUSIC



MUSIC





MP6

MP4

### keyboards amplifiers

Ideal for keyboards, accordions, one-man-bands, piano-bar and many other situations MP6 and MP4 offer a host of professional features and a level of quality unmatched by similar products. Powerful and versatile PA systems with built-in amplifier and mini-mixer: all in one unique package. As usual with Montarbo products, you can count on sonic accuracy, ease of use and top reliability.



### FEATURES

- A unique package ready for use and easy to carry thanks to the side handles moulded in the HD polyethylene cabinet. MP6 is also equipped with a telescopic handle and two wheels guaranteeing maximum transportability.
  - MP6 and MP4 utilize custom designed components. Each model incorporates a class AB, MosFet amplifier, featuring speakers protections and a soft-start circuit to reduce the peak current drain at switch-on. It is controlled by an active processor designed to optimize the linearity of the frequency response as well as the working performance of the system.
  - **MP6** is equipped with a 300 W amplifier and a 6-channel mixer with built-in digital effects processor. The digital effects processor (based on a 56-bit DSP with 24-bit Delta-Sigma conversion) features 16 basic presets that can be freely altered to create an endless variety of effects. The superb sonic performance conjugate with absolute ease of operation.
- 6-channel mic/line mixer**  
Each channel: gain control, peak LED indicator, 3-band EQ, auxiliary send, effect send and volume control. Channels 1-2: balanced mic-line input with Neutrik Combo® connector. Channels 3-4-5-6: mic-line/insert Jack inputs. Master section: master volume, auxiliary output with volume, external effect send with volume, phones output (200 ÷ 600 Ohms) with volume and 'master/aux' selector, pre-out/main-in sockets.
- Digital effects processor: program LED display, program selection keys, peak LED indicator, effects 'on' switch with LED indicator, parameter control, auxiliary send control (eff-to-aux), tone control, volume control and jack socket for remote on-off switching of the effect.

- **MP4** is equipped with a 100 W amplifier and a 4-channel mixer with built-in digital effects processor (Reverb / Chorus).
- 4-channel mic/line mixer**  
Each channel: gain control, peak LED indicator, 3-band EQ, effect send and channel volume control. Channel 1: balanced mic-line input with Neutrik Combo® connector. Channels 2-3-4: mic-line Jack inputs. Master section: master volume, auxiliary output with independent volume control, send (pre-out) and return (main-in), jack sockets for connection of external effect devices such as equalizer, flanger etc., stereo headphones output (200 ÷ 600 Ohms). Effects processor: volume control, Reverb-Chorus selector and jack socket for remote on-off switching of the effect.

### APPLICATIONS

- Unlimited range of applications, both indoor and outdoor: from the beach party to the piano-bar.

SPECIFICATIONS	MP6 - active	MP4 - active
Frequency response	40 Hz ÷ 20 kHz	46 Hz ÷ 20 kHz
Max SPL	127 dB	123 dB
Components	custom designed	custom designed
bass frequencies	15" doped paper woofer	12" woofer
mid/high frequencies	1" dynamic driver loaded by a 90° x 60° horn	1" dynamic driver loaded by a 90° x 60° horn
Built-in power amplifiers	1 MosFet, class AB, dedicated power unit	1 MosFet, class AB, dedicated power unit
Max output power	300 W	100 W
Built-in mixer	6 channels - channels 1 - 2 mic.	4 channels - channel 1 mic.
Equalization	HF ± 15 dB @ 15 kHz MF ± 15 dB @ 600 Hz LF ± 15dB @ 50 Hz	HF ± 15 dB @ 15 kHz MF ± 15 dB @ 600 Hz LF ± 15 dB @ 50 Hz
Built-in effect	16 alterable presets	reverb - chorus
Conversion	24 bit Delta-Sigma	24 bit Delta-Sigma
Dimensions / Weight	W 45 x H 68 x D 36 cm / 27 kg	W 38 x H 60 x D 30.5 cm / 16.5 kg



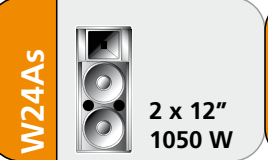


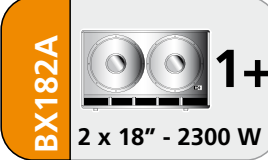
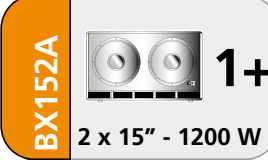
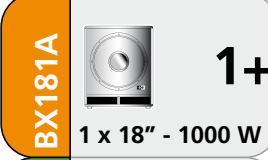


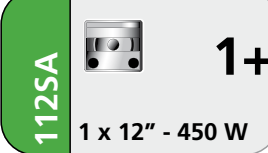
MUSIC

MUSIC

RECOMMENDED COMBINATIONS



ACTIVE SUBWOOFERS

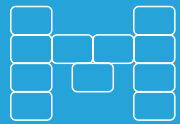
LOUDSPEAKER SYSTEMS

					
	1	1 OR 2	2	2	2
			1	1	2
				1	1
					
					
					

The above suggested combinations of subwoofers + active speaker systems are 'technically correct', but they do not take into consideration all the different possible situations and configurations, nor the individual requirements of power and sound distribution.

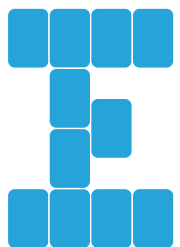
LOUDSPEAKER SYSTEMS

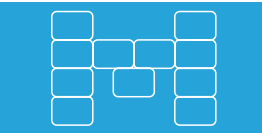
					
1	1	1 OR 2	2		
	1	1	1	2 OR 1	
		1	1	2	
			1	1 OR 2	2



We've been designing mixing consoles since the early Sixties, when even the Beatles used 4-channels and volumes were regulated with knobs. Since then, the evolution of sound technology has radically changed the landscape of music production. Yet, ease of use in live mixing consoles must still be a priority, obviously together with the highest audio performance. Montarbo mixing consoles are designed and built to meet these premises, and are developed with a strong feedback from our users, both performing musicians and professional engineers. Beyond these guidelines, reliability is a key factor in each and every Montarbo mixing console: whatever the features or the price range, you can depend on it and enjoy years of trouble-free operation.

## MIXERS





784

783

**784 standard**  
36 inputs / 32 channels (28 mono, 4 stereo)  
**783 standard**  
28 inputs / 24 channels (20 mono, 4 stereo)



MIXERS

Designed for sonic quality and creative freedom on all controls, 784 and 783 are fully configurable thanks to the modular architecture. Four independent monitor sends, two effects sends, stereo multieffect twin processors and direct outs on each channel make these mixing consoles the natural choice for studios, bands and sound companies. 784 and 783 differ only for frame size and for the possible configurations, allowing to pass from 32 to 64 input channels in the 784 or from 24 to 48 in the 783. You can have or not the DSP module and combine mono or stereo input modules according to your requirements.

The standard configurations offer:

- 784: 7 mono modules (I4M), 1 stereo module (I4S), 1 DSP module with dual processor (DSP2), 1 master module.
- 783: 5 mono modules (I4M), 1 stereo module (I4S), 1 DSP module with dual processor (DSP2), 1 master module.

### FEATURES

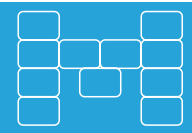
- 4-channel mono input module**  
electronically balanced XLR microphone input; balanced jack line input; phantom power switch; unbalanced stereo jack insert (post-eq, pre-fade); channel direct output (post-eq, post-fade); gain control; microphone input attenuation switch; microphone input selector switch; high-pass filter switch; 4-band EQ, with 2 semi-parametric sections; EQ on/off switch; 4 aux/monitor sends (pre-fade, post-eq); 2 effect sends (post-fade, post-eq); pan control; routing of the channel signal to the master L/R outputs or to the groups 1 and 2 or 3 and 4; PFL (solo) and ON switches with LED indicators; peak LED indicator; 100 mm volume fader.
- 4-channel stereo input module**  
same features of the mono channels except for: 2 electronically balanced XLR microphone inputs, 2 balanced jack line inputs; phase reverse button; mono switch; 3-band EQ; stereo balance.
- DSP module**  
The DP2 module houses 2 multieffect processors (56-bit DSP, 24-bit Delta/Sigma conversion, bandwidth 40Hz±15kHz) providing high-performance digital audio processing combined with extremely easy operation. Each of them offers 160 programs (see page 40 for the effects description) all carefully tailored to today's music production requirements. Each multieffect processor features independent controls: 2-line Liquid Crystal Display; programs selection wheel; button for selecting E1 or E2 effects group on the LCD; button for loading the selected program; dual 5-segment input level LED array; tone controls; aux/monitor sends (pre-fade); the effects can be routed to the selected output pairs L/R, 1/2 or 3/4 using the routing switches and the balance control; PFL (solo) and ON switches with LED indicators; peak LED indicator; 100 mm volume fader; footswitch jacks for remote control of the 2 effects processors.
- master module**  
2 external effects sends each with level control and PFL (solo) switch, with LED indicator; 2 stereo returns each with gain and stereo balance controls, PFL (solo) and ON switches with LED indicators, peak LED indicator, aux/ monitor sends; switches for the effects routings to the L/R, 1/2 and 3/4 output pairs, 100 mm volume fader; 4 aux/monitor sends each with 4-band EQ, unbalanced XLR output + insert stereo jack, 10-segment output level LED array, PFL (solo) switch with LED indicator, volume fader; 4 groups (submaster) each with unbalanced XLR output + insert stereo jack, 10-segment output level LED array, pan control, PFL switch with LED indicator, switch for sending the group signal to the master L/R, 100mm volume fader; L/R master outputs each with balanced XLR + insert stereo jack, 10-segment output level LED arrays and 100 mm volume faders; mono master output with balanced XLR + insert stereo jack, volume control and pre/post master switch; unbalanced stereo jack line inputs, each with volume control; stereo Control Room jack outputs and stereo tape in/out PIN sockets with independent level controls; multipin socket for the external power supply; master phantom power switch; Talkback balanced XLR input, with volume control and switches for routing the signal to L/R or/and to aux outputs; stereo phones output with volume control and PFL on LED; PFL signal 10-segment LED level indicator.

### ACCESSORIES

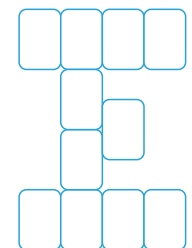
- 783 and 784 come equipped with flight case external power supply.

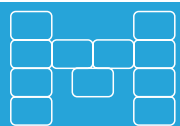


SPECIFICATIONS	784 / 783 (standard)
Mono input channels	784: 28 / 783: 20
phantom power supply	48 V
equalization	4-band (2 parametric mids)
Stereo input channels	4
equalization	3-band
Fader (throw / attenuation)	100mm / >80dB
Stereo effects processor	2 x 160 stereo effects
A-D and D-A conversion	24 bit Delta/Sigma
internal DSP	56 bit
bandwidth	40Hz ± 15kHz
External effect send	2
External effect return	2 (stereo)
Aux (pre-fader/post EQ)	4
equalization (pre fader)	4-band
Master outputs	L/R; Mono; 4 sub; C.Room
frequency response	20Hz ± 30kHz (+0dB/-2dB)
S.N.R	> 82dB (nom.levels, EQ flat)
Dimensions (wxhxd) / Weight	783: 113.5 x 11 x 75.6 cm / 44 kg 784: 140 x 11 x 75.6 cm / 50 kg



MIXERS





MX28

MX20

**MX28 standard**  
28 inputs / 24 channels (20 mono, 4 stereo)  
**MX20 standard**  
20 inputs / 16 channels (12 mono, 4 stereo)



MX28 and MX20 represent the latest evolution in our range of mixing consoles. High reliability is guaranteed by the usual attention to detail and to the highest quality of each single raw component: use of the latest PCB surface mount technologies, custom designed knobs, 100mm faders and peak LED indicators on each channel assure a very accurate control during complex mixes. The built-in power supply has been designed to function effectively even at very low voltages, eliminating the risk of those annoying hum and buzz effects. As is customary for Montarbo products, sonic accuracy blends with the greatest ease of operation. They differ only in frame size: the MX28 frame houses a maximum of 6 input modules while the MX20 can house 4. Input modules house 4 mono channel strips (MN4) or 4 stereo channel strips (ST4).

The standard configurations offer:  
MX28: 5 mono modules (MN4), 1 stereo module (ST4), 1 master module incorporating 2 DSP processors.  
MX20: 3 mono modules (MN4), 1 stereo module (ST4), 1 master module incorporating 2 DSP processors.



**FEATURES**

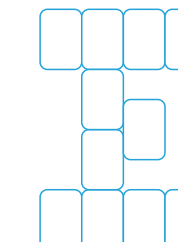
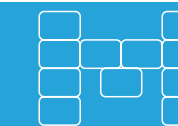
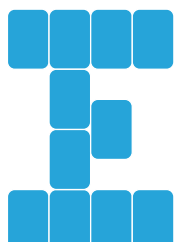
- **4-channel mono input module**  
Balanced XLR MIC input with switchable phantom power; unbalanced jack LINE input, that doubles as insert input; 'insert out' jack; channel gain control; 3-band EQ with parametric control of the mid range; 6 aux/monitor sends (pre-fade, post-eq); 2 effect sends (post-fade, post-eq); PFL (solo) switch; stereo panning control; channel 'on' switch (with LED indicator); peak LED indicator; 100 mm volume fader.
- **4-channel stereo input module**  
Same features of the mono channels except for dual balanced stereo LINE inputs on XLR and Jack sockets; Mono button (selects 'R' input as a mono input); they also feature 3-band EQ and stereo balance control.
- **master module**  
New dual stereo multieffects processor (based on a 56-bit internal DSP and 24-bit Delta-Sigma conversion) with a 4 times faster computing speed. New algorithms, running on powerful, latest generation's DSP, emulate the acoustic characters of various ambient, and a new series of programs is available to enhance the acoustic character of various instruments. Each one of the two built-in effects processors provide 205 high quality programs (see page 40 for the effects description), all carefully tailored to today's music production requirements. They also provide high performance digital audio processing combined with extremely easy operation. Each multi-effect processor features independent controls: 2-line Liquid Crystal Display; programs selection wheel; button for selecting E1 or E2 effects group on the LCD; button for loading the selected program; dual 5-segment input level LED array; tone controls; 6 aux/monitor sends (pre-fade); stereo balance; effect 'on' switch with LED indicator; 100mm volume fader; jacks for remote control of the 2 effects processors. 2 external effects sends with independent level controls, 2 stereo external effects returns (each with volume control and stereo balance control) routable to the master and to the 6 aux/monitor outputs. 6 aux/monitor outputs each with: 3-band EQ with parametric mid frequency, unbalanced XLR output, insert stereo jack socket, 12-segment output level LED arrays, PFL switch and 100 mm volume fader. L/R master outputs (unbalanced XLRs) + insert stereo jack sockets with 100 mm master volume faders, 12-segment output level LED arrays and 10-band stereo graphic EQ with Eq/Flat bypass switch. Mono output (unbalanced XLR + insert stereo jack socket) for the master L/R mono signal, with volume control and a pre/post master switch. Control room stereo output with independent volume control. Stereo tape in/out (PIN sockets) with input volume control. Master phantom power switch. Stereo phones output with volume control, PFL/L-R switch. PFL 12-segment level indicator.

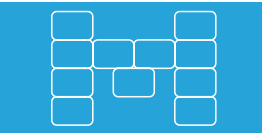
**ACCESSORIES**

- FC28: Flight case for MX28 (optional accessory).
- FC20: Flight case for MX20 (optional accessory).



SPECIFICATIONS	MX28 / MX20 (standard)
Mono input channels phantom power supply equalization	MX28: 20 / MX20: 12 48V 3-band (parametric mid)
Stereo input channels equalization	4 3-band
Fader (throw / attenuation)	100mm / >80dB
Stereo effects processor A-D and D-A conversion internal DSP bandwidth	2 x 165 stereo effects 24 bit Delta/Sigma 56 bit 40Hz ÷ 15kHz
External effect send External effect return	2 2 (stereo)
Aux (pre-fader/post EQ) equalization (pre fader)	6 3-band (parametric mid)
Master outputs frequency response S.N.R stereo graphic equalizer	L/R; C.Room; Mono 20Hz ÷ 30kHz (+0dB/-2dB) > 80dB (nom.levels, EQ flat) 31-63-125-250-500 Hz 1-2-4-8-16 kHz / ±12dB
Dimensions (wxhxd) / Weight	MX20: 81.5 x 10.5 x 69 cm / 21 kg MX28: 104.6 x 10.5 x 69 cm / 29 kg





SX19

SX18

SX17

- SX19**  
28 inputs / 24 channels (20 mono, 4 stereo)
- SX18**  
20 inputs / 16 channels (12 mono, 4 stereo)
- SX17**  
16 inputs / 12 channels (8 mono, 4 stereo)



MIXERS

The SX Series mixers are designed to stand up to the unpredictable stresses and demands of professional use while out on the road; they perform like true multi-purpose mixers, doing everything from recording to conference sound reinforcement. Inside them we have used hybrid ceramic ICs and individually laser-trimmed resistors on the shortest possible signal path. This way you are ensured above average sonic behaviour, great dynamic headroom and very low noise floor. The built-in power supply has been designed to function effectively even at very low voltages, eliminating the risk of those annoying hum and buzz effects. A great deal of effort has been put into the mechanical construction of these units to ensure reliability even under extremely demanding conditions. On each one of these 3 models (they differ only in the number of channels), you will find all the tools you need to run a standard stereo PA system and despite the extraordinary number of features, the console's layout is quite easy to understand and user-friendly.

**FEATURES**

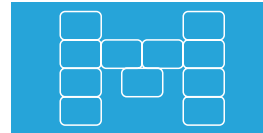
- **mono input channels**  
balanced XLR microphone input (with switchable phantom power on 4 channels in SX17 and SX18, on 6 in SX19); unbalanced jack line input, also usable as stereo insert; channel 'gain' control; 3-band EQ with parametric control of the mid-range; 2 monitor sends (pre-fade, post-eq); 2 auxiliary sends switchable pre/post fade; 2 effect sends (post-fade, post-eq); stereo panning control; channel's main on/off switch with green LED indicator; peak LED; 60 mm volume fader.
- **stereo input channels**  
they have exactly the same features of the mono channels but besides the XLR microphone input they have 2 line jack inputs; 3-band EQ and stereo balance.
- **master section**  
New dual stereo multieffects processor (based on a 56-bit internal DSP and 24-bit Delta-Sigma conversion) with a 4 times faster computing speed. New algorithms, running on powerful, latest generation's DSP, emulate the acoustic characters of various ambient, and a new series of programs is available to enhance the acoustic character of various instruments. Each one of the two built-in effects processors provide 205 high quality programs (see page 40 for the effects description), all carefully tailored to today's music production requirements. They also provide high performance digital audio processing combined with extremely easy operation. Each multi-effect processor features independent controls: 2-line Liquid Crystal Display; programs selection wheel; button for selecting E1 or E2 effects group on the LCD; button for loading the selected program; dual 5-segment input level LED array; tone controls; 2 monitor sends (pre-fade); stereo balance controls; 'on' switch with LED indicator; 60 mm volume fader; jacks for remote control of the 2 effects processors; 2 external effects sends with independent level controls; 2 stereo returns each with 'gain' control, stereo balance, monitor sends and 60 mm volume fader; 2 monitor lines each with: 3-band EQ with parametric control of the mid-range, unbalanced XLR outputs with insert stereo jack socket, 12-segment output level LED array and 60 mm volume fader; 2 auxiliary lines with jack outputs and level controls; L/R master outputs (unbalanced XLRs + insert stereo jack sockets) with 12-segment output level LED arrays and 60 mm volume faders; mono output (unbalanced jack) for the master L/R mono signal, with volume control; Control Room stereo output with independent volume control; stereo tape in/out (PIN sockets) with input volume control; 10-band stereo graphic EQ with on/off switch; phantom power switch; stereo phones jack output with volume control.

**ACCESSORIES**

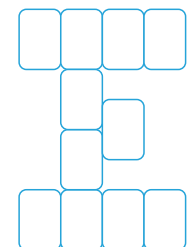
- FCSX19: Flight case for SX19 (optional accessory).
- FCSX18: Flight case for SX18 (optional accessory).
- FCSX17: Flight case for SX17 (optional accessory).

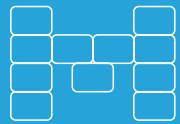


SPECIFICATIONS	SX19 / SX18 / SX17
Mono input channels	SX19: 20 / SX18: 12 / SX17: 8
phantom power supply	48 V
equalization	3-band (parametric mid)
Stereo input channels	4
equalization	3-band
Fader (throw / attenuation)	60mm / >80dB
Stereo effects processor	2 x 165 stereo effects
A-D and D-A conversion	24 bit Delta/Sigma
internal DSP	56 bit
bandwidth	40Hz ÷ 15kHz
External effect send	2 ÷ 4
External effect return	2 (stereo)
Aux (pre-fader/post EQ)	2 ÷ 4
equalization (pre fader)	3-band (parametric mid)
Master outputs	L/R; C.Room; Mono
frequency response	20Hz ÷ 30kHz (+0dB/-2dB)
S.N.R	> 80dB (nom.levels, EQ flat)
stereo graphic equalizer	31-63-125-250-500 Hz 1-2-4-8-16 kHz / ±12dB
Dimensions (wxhxd) / Weight	SX19: 95 x 10.5 x 56.2 cm / 19 kg SX18: 73 x 10.5 x 56.2 cm / 16 kg SX17: 62 x 10.5 x 56.2 cm / 13 kg



MIXERS





## SX18Powered1500

**SX18Powered 1500**  
20 inputs / 16 channels (12 mono, 4 stereo)  
750 + 750 W

## SX17Powered1500

**SX17Powered 1500**  
16 inputs / 12 channels (8 mono, 4 stereo)  
750 + 750 W



SX18Powered 1500 and SX17Powered 1500 are the powered versions of the models SX18 and SX17 with which they share all the features and controls.

SX18Powered 1500 and SX17Powered 1500 are both equipped with a potent new Class-D stereo power amplifier. This high-efficiency, 1500 W (2 x 750 W @ 4 ohms), power amplifier uses a switching-mode power supply stage, which provides a significant weight saving. The reduced heat emission of the amplifier maintains a low operational temperature of the entire unit, to increase the unit's reliability and prolong its working life.

SX18Powered 1500 and SX17Powered 1500 differ only in the number of channels. These powered mixers are equipped with the new dual stereo DSP with 205 programs each.



### FEATURES

#### • mono input channels

balanced XLR microphone input (with switchable phantom power on 4 channels); unbalanced jack line input, also usable as stereo insert; channel 'gain' control; 3-band EQ with parametric control of the mid-range; 2 monitor sends (pre-fade, post-eq); 2 auxiliary sends switchable pre/post fade; 2 effect sends (post-fade, post-eq); stereo panning control; channel's main on/off switch with green LED indicator; peak LED; 60 mm volume fader.

#### • stereo input channels

they have exactly the same features of the mono channels but besides the XLR microphone input they have 2 line jack inputs; 3-band EQ and stereo balance.

#### • master section

New dual stereo multieffects processor (based on a 56-bit internal DSP and 24-bit Delta-Sigma conversion) with a 4 times faster computing speed. New algorithms, running on powerful, latest generation's DSP, emulate the acoustic characters of various ambient, and a new series of programs is available to enhance the acoustic character of various instruments. Each one of the two built-in effects processors provide 205 high quality programs (see page 40 for the effects description), all carefully tailored to today's music production requirements. They also provide high performance digital audio processing combined with extremely easy operation. Each multi-effect processor features independent controls: 2-line Liquid Crystal Display; programs selection wheel; button for selecting E1 or E2 effects group on the LCD; button for loading the selected program; dual 5-segment input level LED array; tone controls; 2 monitor sends (pre-fade); stereo balance controls; 'on' switch with LED indicator; 60 mm volume fader; jacks for remote control of the 2 effects processors; 2 external effects sends with independent level controls; 2 stereo returns each with 'gain' control, stereo balance, monitor sends and 60 mm volume fader; 2 monitor lines each with: 3-band EQ with parametric control of the mid-range, unbalanced XLR outputs with insert stereo jack socket, 12-segment output level LED array and 60 mm volume fader; 2 auxiliary lines with jack outputs and level controls; L/R master outputs (unbalanced XLRs + insert stereo jack sockets) with 12-segment output level LED arrays and 60 mm volume faders; Mono output (unbalanced jack) for the master L/R mono signal, with volume control; Control Room stereo output with independent volume control; stereo tape in/out (PIN sockets) with input volume control; 10-band stereo graphic EQ with on/off switch; phantom power switch; stereo phones jack output with volume control.

#### • rear panel

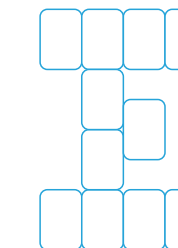
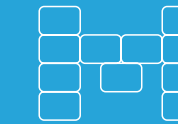
output sockets for the internal high efficiency dual Class-D power amplifier (2 x 750 W / 4 ohms). Each output is fitted with 2 jack and 2 Speakon sockets (parallel connected) and features cooling fan and advanced protection circuitry providing a clean, reliable power with maximum accuracy even at the highest levels.

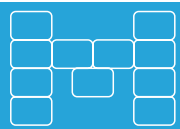
### ACCESSORI

- FCSX18P: Flight case for SX18P1500 (optional accessory).
- FCSX17P: Flight case for SX17P1500 (optional accessory).



SPECIFICATIONS	SX18Powered1500 / SX17Powered1500
Mono input channels	SX18Powered1500: 12 / SX17Powered1500: 8
phantom power supply	48 V
equalization	3-band (parametric mid)
Stereo input channels	4
equalization	3-band
Fader (throw / attenuation)	60mm / >80dB
Stereo effects processor	2 x 205 stereo effects
A-D and D-A conversion	24 bit Delta/Sigma
internal DSP	56 bit
bandwidth	40Hz ÷ 15kHz
External effect send	2 ÷ 4
External effect return	2 (stereo)
Aux (pre-fader/post EQ) equalization (pre fader)	2 ÷ 4 3-band (parametric mid)
Master outputs	L/R; C.Room; Mono
frequency response	20Hz ÷ 30kHz (+0dB/-2dB)
S.N.R	> 80dB (nom.levels, EQ flat)
stereo graphic equalizer	31-63-125-250-500 Hz 1-2-4-8-16 kHz / ±12dB
Built-in amplifiers	2 Class-D power amps (processor controlled)
total output power (W EIAJ)	750 + 750 W / 4 Ohms 370 + 370 W / 8 Ohms
protections	electronic, thermal, short circuit protections, delayed power-up sequence, forced cooling, automatic trouble-shooting.
Dimensions (wxhxd) / Weight	SX18Powered: 73 x 16 x 56,2 cm / 18 kg SX17Powered: 62 x 16 x 56,2 cm / 15 kg





XD75

AD75

**XD75**  
12 inputs / 9 channels (6 mono, 3 stereo-mono)  
**AD75**  
12 inputs / 9 channels (6 mono, 3 stereo-mono)  
powered 750 + 750 W



MIXERS

Montarbo mixers always stand out for the quality and distinctiveness of their built-in effects. XD75 and AD75 continue this tradition, and feature a dual effects processor that provides the user with 2 x 205 ready-to-use preset effects of outstanding audio quality. All of the effects are carefully tailored to the requirements of today's music production. New algorithms, running on a powerful, latest-generation DSP with a computing speed 4 times faster, emulate the acoustic character of various environments, and a new series of programs is available to enhance the acoustic qualities of a range of musical instruments. The powered version AD75 is also equipped with a potent new Class-D stereo power amplifier. This high-efficiency, 1500 W (2 x 750 W @ 4 ohms), power amplifier uses a switching-mode power supply stage, which keeps the unit's weight down to 10 kg. The reduced heat emission of the amplifier maintains a low operational temperature of the entire unit, to increase the unit's reliability and prolong its working life. XD75 and AD75 are the ideal choice for small bands, keyboardists, and installed sound systems in small theatres and clubs. They are compact, flexible and very easy to set up, providing perfect reproduction of instruments and vocals, and ensuring inaudible noise levels.

### FEATURES

XD75 and AD75 have the same set of features and controls.

#### • mono input channels

balanced XLR microphone inputs (switchable phantom on 3 channels); unbalanced jack Line inputs (combined with Insert-points); peak LED; wide range gain pot; 3-band Equalizer; aux/monitor send (pre-fade, post-eq); internal (E1/E2) and external (E2) effect sends (post-fade, post-eq); pan control; channel on/off switch; 60 mm volume fader.

#### • stereo input channels

XLR microphone inputs + L/R jack inputs for stereo line signals. Same controls as mono channels.

#### • master section

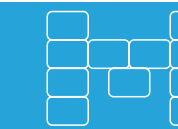
New dual stereo multieffects processor (based on a 56-bit internal DSP and 24-bit Delta-Sigma conversion) with a 4 times faster computing speed. New algorithms, running on powerful, latest generation's DSP, emulate the acoustic characters of various ambient, and a new series of programs is available to enhance the acoustic character of various instruments. Each one of the two built-in effects processors provide 205 high quality programs (see page 40 for the effects description), all carefully tailored to today's music production requirements. They also provide high performance digital audio processing combined with extremely easy operation. Each multieffect processor features independent controls: 2-line Liquid Crystal Display; programs selection wheel; button for selecting E1 or E2 effects group on the LCD; button for loading the selected program; dual 5-segment input level LED array; tone controls; aux/monitor sends (pre-fade); stereo balance controls; 'on' switch with LED indicator; 60 mm volume fader; jacks for remote control of the 2 processors.

6-band stereo graphic Equalizer; external effect send; stereo return assignable to the aux and L/R master outputs with independent controls; aux output with volume control; Control Room stereo output with independent volume control; L/R insert sockets; stereo tape in/out with input volume control; phantom power switch; output and level control for stereo phones.

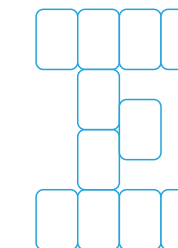
• The **powered version AD75** also incorporates: a high efficiency dual Class-D amplifier (2 x 750 W / 4 ohms). Each output is fitted with 2 jack and 2 Speakon sockets (parallel connected) and features cooling fan and advanced protection circuitry providing a clean, reliable power with maximum accuracy even at the highest levels.

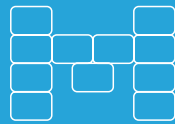


SPECIFICATIONS	XD75 - AD75
Mono input channels	6
phantom power supply	48 V
equalization	3-band
Stereo input channels	3
equalization	3-band
Fader (throw / attenuation)	60mm / >80dB
Stereo effects processor	2 x 165 stereo effects
A-D and D-A conversion	24 bit DeltaSigma
internal DSP	56 bit
bandwidth	40Hz ÷ 15kHz
External effect send	1
External effect return	1 (stereo)
Aux (pre-fader/post EQ)	1
Master outputs	L/R, Control Room
frequency response	10Hz ÷ 20kHz (+0dB/-2dB)
S.N.R	> 80dB (nom.levels, EQ flat)
stereo graphic equalizer	80-200-500Hz; 1,6-4-10kHz / ±12dB
L/R insert outputs	0dB / + 20dB
Dimensions (wxhxd) / Weight	XD75: 49,5 x 10 x 41 cm / 6,5 kg AD75: 49,5 x 16 x 41 cm / 10 Kg
Built-in amplifiers	AD75 2 Class-D power amplifiers (processor controlled)
total output power (W EIAJ)	750 + 750 W / 4 Ohms 370 + 370 W / 8 Ohms
protections	electronic, thermal, short circuit protections, delayed power-up sequence, forced cooling, automatic trouble-shooting.



MIXERS





783 - 784

### Effects description

**STEREO GEN.** Adds a short delay to the signal to create a pseudo-stereo effect out of mono sources.

**HALO** It's a digital recreation of the effect built in the Montarbo reverb units of the sixties, a vintage classic that never went out of fashion.

**ECHO** Classic multiplex effect.

**ECHO + REVERB** Delay and reverb blended together make for the impressive effect you can listen on most contemporary productions.

**VOICE REVERB** Reverbs specially tailored to enhance vocals' character.

**PERCUSSION REVERB** Ambience effects that enrich both acoustic and electronic percussions.

**HALO + REVERB** Halo and reverb effects blended together.

**PING PONG** Basically an auto-panned delay, popular on many rock hits.

**BOUNCE** Repeats start widely spaced to become closer and closer.

**EARLY REFLECTIONS** Generates the initial part of the reverb. Usually it is used to colour vocals or horns solos in contemporary productions.

**STEREO FLANGER** It may be considered as a very intense chorus, with two voices crossing their stereo image and with feedback acting as 'comb filter'.

**STEREO CHORUS** It produces a warm and rich sound. It is ideal to enliven a guitar accompaniment and to 'fatten' a voice. Even the thinner voice will sound like an ensemble.

**DETUNE** Slightly alters the tuning of the source to simulate a 'doubling' effect.

**DUAL PITCH** A wonderful 'harmonizer' with two voices. Your voice will be automatically accompanied by a chorus.

**SINGLE PITCH** Harmonizer with one voice.

**PITCH CHANGE + REVERB** It's the combination of the two effects which most of all let your voice sound warmer and thicker.

**REVERSE REVERB** Unmistakably a 'must' of many 80's records, starts at low level, builds up and quit abruptly. Usually served with percussion.



MX28 - MX20; SX19 - SX18 - SX17;  
SX18Powered - SX17Powered; XD75 - AD75

### Effects description

**EARLY** Generates the initial part of room reverberation, without the decay of the reverberant field.

**STEREO GEN** Generates a pseudo-stereo effect out of mono sources by adding short delays to the signal.

**PING PONG** A delayed sound is bounced between the stereo channels.

**HALO** A digital recreation of the tried and proven Montarbo magnetic memory effect. Suggested for Vintage or Psycho voices.

**DELAY** A simple delay. It will add a pleasant openness to any sound.

**DETUNE** Slightly changes the tuning of the source. It enriches the sound without rendering it "unnatural". Test it on sustained vocals.

**FLANGER** A powerful effect that gives a strong character to the sound.

**CHORUS** A choir effect is simulated by modulating both delay and amplitude.

**AMBIENCE** It emulates a small room, with reflecting surfaces. Early reflections predominate, with a slight reverberation.

**CHAMBER** A room slightly larger than the former, with more sound adsorbing surfaces.

**ROOM** The size is that of a living room. The presets alternate between reflecting and adsorbing surfaces.

**HALL** A large, empty room, with mostly reflecting, naked walls: the typical party hall.

**CATHEDRAL** A very large room, such a church or a cathedral.

**PLATE** It recreates the sound of the first electro-mechanical reverberation devices, that used metal plates for a large and brilliant sound.

**PLATE DLY** A slight echo is added to the Plate effect, giving an even larger sound.

**BIG SPACE** A really spacious room. The sound is unnatural but really evocative.

**ECO REV** One of the most commonly used effects: it blends the depth of the echo with the warmth of the reverb. Usually applied to vocals, it is the classical starting point for testing effects.

**CONCERT** The acoustic space of a large concert hall with controlled reflections and a neutral tonal character.

**LIVE** It will give you the sensation of a live concert in an open space, on a large stage in front of thousands of listeners.

**GATE** The reverberation decay is suddenly muted, giving the sound an aggressive character.

**VOX - FLUTE - TRUMPET - SAX - BRASS - KEYBRD - PIANO - GTR - DRUM - TOMS - CYMB - HIHAT - KICK - SNARE - TOM** Custom-made effects for specific instruments.

**INSIDE A BOX** Similar to Room, but the room's size is very small.

**LIVING ROOM** Similar to the former, but the room's size is larger (a typical living room).

**PTC REV** A pleasant reverberation is added to the pitch transposed signal described below.

**PITCH** These presets generate signals that are harmonic with the source, but transposed in terms of pitch.

**DISTANCE** It is a simple delay of the input signal, useful in installations with many loudspeakers at different distances from the listeners.

A group with some of the most classic Montarbo effects is added to these effects:

**\*ECHO** Classic multiplex effect.

**\*ECHO + REVERB** Delay and reverb blended together make for the impressive effect you can listen on most contemporary productions.

**\*VOICE REVERB** Reverbs specially tailored to enhance vocals' character.

**\*HALO + REVERB** Halo and reverb effects blended together.

459

458

### 459 - FEATURES

- 2 built-in MosFet class AB amplifiers.
- Balanced XLR inputs mic and unbalanced line (jack); 3-band EQ; peak LED; effect send; aux/monitor send; panpot; volume.
- Stereo digital effects processor (56-bit DSP with 18 bit Delta-Sigma conversion) allowing infinite combinations of Reverb, Echo, Halo and even Reverb+Echo effects.
- 6-band stereo graphic equalizer.
- External effect send; aux/monitor send, with volume control; L/R insert sockets (for the connection of external effects or external amplifier); stereo in/out sockets for tape recorder with input level control.

### 458 - FEATURES

- Built-in MosFet class AB amplifier.
- The 2 Ohms load impedance allows to connect up to four 8 Ohms-speaker enclosures.
- Balanced mic and unbalanced line inputs; 2-band EQ; echo and monitor sends; volume.
- 16-bit Montarbo Digital Delay providing Echo and Halo effects (two separate, mixable delays).
- 9-band graphic equalizer.
- Preamp. output (for external amplification); monitor output; auxiliary input, with volume control; stereo in/out PIN sockets for tape recorder; external effect send/return sockets (pre-out/main-in).

**459 powered - 10 inputs / 8 channels**  
(6 mono, 2 stereo)  
200 + 200 W / 4 Ohms

**458 powered - 8 channels**  
350 W / 2 Ohms  
(4 x 8-Ohms speaker enclosures)  
250 W / 4 Ohms  
(2 x 8-Ohms speaker enclosures)

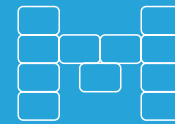
A case making history...

The historical metal case with lids which, when open, act as supports was first designed and produced by Montarbo's founder back in the 1960's.

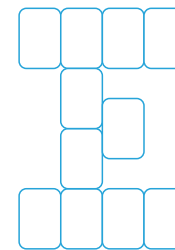
Since then it has 'hosted' generations of powered mixers becoming Montarbo's symbol in musicians' mind over the years.



SPECIFICATIONS	459	458
Mono input channels equalization	6 3-band	8 2-band
Stereo input channels equalization	2 3-band	
Stereo effects processor	Reverb/Echo	Echo / Halo
A-D and D-A conversion	24 bit Delta/Sigma	24 bit Delta/Sigma
internal DSP	56 bit	56 bit
bandwidth	40Hz ÷ 15kHz	40Hz ÷ 15kHz
External effect send	1	1
Master outputs frequency response	L/R 25Hz ÷ 25kHz ±1dB	25Hz ÷ 25kHz ±1dB
S.N.R	80dB	80dB
stereo graphic equalizer	80-200-500Hz; 1.6-4-10kHz / ±12dB	63-125-250-500 Hz; 1-2-4-8-16 kHz / ±12dB
Dimensions (wxhxd)	46.5 x 82 x 38 cm (standing) 46.5 x 40 x 20 cm (closed)	46.5 x 82 x 38 cm (standing) 46.5 x 40 x 20 cm (closed)
Weight	20 Kg	20 Kg
Built-in amplifiers	2 MosFet (class AB)	1 MosFet (class AB)
total output power	200 + 200W / 4 Ohms	350W / 2 Ohms 250W / 4 Ohms
protections	electronic protections, delayed power-up sequence, automatic trouble-shooting.	electronic protections, delayed power-up sequence, automatic trouble-shooting.



MIXERS



41

MIXERS

40



## a bit of history

It was back in the early Fifties that Montarbo's founder Sergio Montanari started building his first amplification systems under the trade name of Super MB.

The Montarbo trademark and logo, the same ones you still find on today's products, were designed and introduced in 1962.

The Company was able to quickly build up a solid reputation thanks to a very special product, a piece of equipment that was so innovative and unique that it made the firm famous throughout Italy and the rest of the world: a six-channel powered mixer incorporating a 100W power amplifier and a magnetic memory echo unit into a portable metal case (featuring lids that doubled as supports when opened).

A groundbreaking Montarbo patent, this magnetic memory echo unit required no cleaning or maintenance as it had completely eliminated the problem of mechanical friction – unlike the tape-based echo units common at that time.

In 1965 Montarbo introduced the world's first active loudspeaker. Prior to this pioneering effort, no other company had ever considered placing an amplifier right inside a loudspeaker cabinet. Shortly thereafter, the Company came out with the first quadraphonic mixers and the first bass amplifiers with separate head units.

With the increasing popularity of rock music during the Sixties, concerts and venues required more powerful sound reinforcement systems to cope with ever-larger audiences. Montarbo led in this field and went on to develop many innovative designs and patented products.

During the Eighties it was one of the first manufacturers to develop software-assisted effects processors. Its current catalogue selection ranges from economically designed MI products to cutting-edge professional technology.

Whatever the features or the price range, all Montarbo products are absolutely 'professional-grade', state-of-the-art equipment built to stand up to years and years of hard use and abuse. Tradition and research constitute the basis of the Company's philosophy, and its original goal has remained the same: it is totally committed to ensuring the complete satisfaction of musicians, sound technicians and touring bands.

That's why Montarbo's products are inspired by a design philosophy that emphasizes lightness and compactness; and that's why they will never compromise on sonic quality, reliability or ease of use.

Our commitment to sound and your passion for music merge in these innovative products.



**Montarbo**  
Made in Italy



high-end solutions for a high-end passion

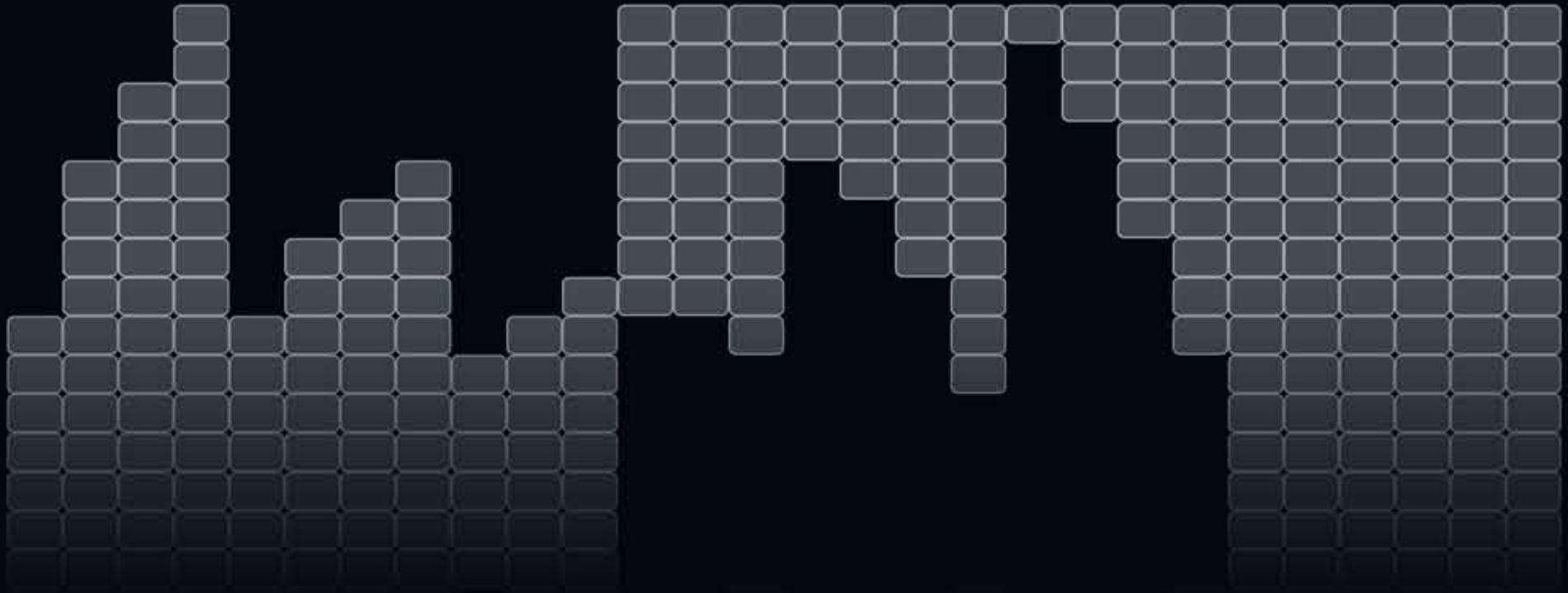
**Elettronica Montarbo srl**  
40057 Cadriano - Bologna (Italy)  
☎. +39 051 766437 • Fax +39 051 765226  
mail@montarbo.com • www.montarbo.com

*The contents of this publication are ©2009-2010 by Elettronica Montarbo srl.  
Data, text and pictorial material may not be reproduced in any manner without  
prior written permission of Elettronica Montarbo srl. All rights reserved.  
The information contained in this catalogue has been carefully drawn up and  
checked, however no responsibilities will be assumed for any inexactitude.  
Technical data and appearance of products are subject to change  
without prior notice.*

*The trademarks Neutrik Speakon<sup>®</sup>, Combo<sup>®</sup> and Power Con<sup>®</sup> are property of Neutrik.*

*PRINTED IN ITALY: SEPTEMBER 2009*

high-end solutions for a high-end passion



**Montarbo**  
Made in Italy



Elettronica **Montarbo** srl  
40057 Cadriano - Bologna (Italy)  
☎ +39 051 766437 • Fax +39 051 765226  
mail@montarbo.com • www.montarbo.com

ENGLISH