

M22A M44A

bi-amplified active stage monitors for professional applications



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.

Designed to meet the most demanding requirements in professional applications, M22A and M44A high-performance self-powered, bi-amplified stage monitors provide high sound pressure level with maximum definition and absolutely flat frequency and phase response.

Whether you are playing, in the liveliest of concerts, on the hottest stage or in a small club M22A and M44A will be your reference point for all your performance.

- high sound pressure level with maximum definition
- absolutely flat frequency and phase responses
- low susceptibility to feedback
- excellent intelligibility, no distortion or coloration
- construction and components conform to the highest professional standards for maximum reliability
- complete synergy of acoustic and electronic design elements
- components (B&C) are custom designed to Montarbo specifications
- neodymium-based transducers and toroidal transformers provide a significant weight saving
- dedicated power amplifiers and control electronics
- strong and sturdy cabinet with highly resistant polyurethane paint finish and 1,5 mm thick steel protection grid
- all controls and connections are conveniently placed on one side of the cabinet for increased ease of use
- ergonomically designed handles, balanced to the box's center 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

Montarbo



M22A

300 W continuous
420 W peak



ergonomically
designed handles

side control panels

highly resistant, antiscratch,
polyurethane paint



Biamplified. M22A and M44A incorporate:

- 2, class AB, Mosfet amplifiers, each one fitted with our exclusive loudspeaker protection circuitry
- 2 independent dynamic processors
- high slope active electronic crossover (24dB/oct. Linkwitz-Riley) guaranteeing phase coherency and perfect addition of acoustic emissions in the crossover region
- a "soft-start" circuit to reduce the peak current drain at switch-on.

- M22A utilizes a 10" neodymium magnet woofer and a 1" compression driver (with polyimide diaphragm) coupled to a constant directivity horn (Montarbo design) which may be rotated 90° for reducing the horizontal coverage and limiting feedback in nearby microphones.

- M44A is equipped with 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.



The control panel of M22A and M44A is fitted with:

- Balanced input (using a Neutrik Combo® combined jack-XLR connector).
- Balanced XLR output (link) allows parallel connection of other active systems.
- Master volume control.
- Volume control for the high frequencies.

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



M44A

500 W continuous

670 W peak



1.5 mm steel grill

dual angle cabinet's profile

low turbulence tuning ports



Il pannello controlli e connessioni di M44A ed M22A dispone di:

- Ingresso bilanciato su presa Neutrik Combo® (accetta sia XLR che Jack).
- Uscita (link) bilanciata su presa XLR per il collegamento in parallelo di un altro sistema.
- Controllo di volume generale.
- Controllo di volume delle alte frequenze.



Biamplicati. M22A ed M44A incorporano:

- 2 amplificatori a MosFet, classe AB, entrambi dotati di un esclusivo circuito di protezione attiva dei trasduttori
- 2 processori dinamici indipendenti
- crossover elettronico attivo (24dB/oct. Linkwitz-Riley) che garantisce l'allineamento di fase e la perfetta sovrapposizione dell'emissione nella zona d'incrocio
- circuito "soft-start" per ridurre i picchi di corrente all'accensione.

• M22A è dotato di woofer da 10" (con magnete al neodimio) e di un driver a compressione da 1" (con diaframma in polyimide) accoppiato ad una tromba a direttività costante (design Montarbo) che può essere ruotata di 90° per limitare eventuali rientri sui microfoni circostanti.

• M44A monta un esclusivo altoparlante di tipo coassiale che ospita un woofer da 15", con magnete al neodimio, e un driver a compressione da 1,5", anch'esso al neodimio, con diaframma in titanio.

Specifications

M22A

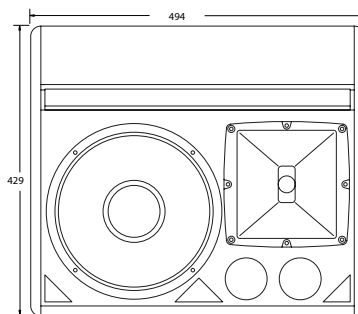
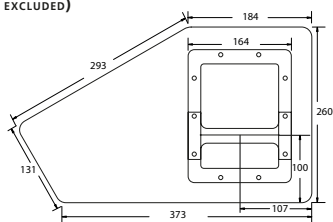
M44A

Enclosure	2-way vented box, low turbulence ports	2-way vented box, low turbulence ports
• Components:	B&C - custom designed	B&C - custom designed coaxial loudspeaker
- bass frequencies	10" neodymium magnet woofer	15" high efficiency neodymium magnet woofer
- mid/high frequencies	1" compression driver (polyimide diaphragm) 90° x 70° constant directivity horn	1,5" neodymium compression driver (titanium diaphragm)
• Impedance	8 ohms	8 ohms
• Frequency response:	45 Hz ÷ 20 kHz	42 Hz ÷ 20 kHz
- bass frequencies	45 Hz ÷ 1500 Hz	42 Hz ÷ 1000 Hz
- mid/high frequencies	1500 Hz ÷ 20 kHz	1000 Hz ÷ 20 kHz
• Electronic crossover	1500 Hz, 24dB/octave (Linkwitz-Riley)	1000 Hz, 24dB/octave (Linkwitz-Riley)
• Sensitivity (1W / 1m on axis)	100,5 dB SPL 1W, 1m	101 dB SPL 1W, 1m
• Max SPL	127 dB	129 dB
Built-in power amplifiers	2, MosFet (class AB) with 2 independent processors	2, MosFet (class AB) with 2 independent processors
• Max. output power:	300 W continuous / 420 W peak	500 W continuous / 670 W peak
- bass frequencies	200 W continuous (8 Ohms, @ 0.1% THD) 270 W peak	350 W continuous (8 Ohms, @ 0.1% THD) 450 W peak
- mid/high frequencies	100 W continuous (8 Ohms, @ 0.1% THD) 150 W peak	150 W continuous (8 Ohms, @ 0.1% THD) 220 W peak
• Frequency response	10 Hz ÷ 40 kHz ±1dB	10 Hz ÷ 40 kHz ±1dB
• Input impedance and sensitivity	0 dB / 10 kOhms	0 dB / 10 kOhms
• Noise referred to input	-110 dB (A weighted)	-110dB (A weighted)
Connections	balanced Neutrik Combo® input (XLR + 1/4" jack) balanced XLR output (link)	balanced Neutrik Combo® input (XLR + 1/4" jack) balanced XLR output (link)
Construction	Multiply birch; polyurethane paint; powder coated steel protection grille; carrying handle.	Multiply birch; polyurethane paint; powder coated steel protection grille; carrying handle
Dimensions (w x h x d):	49,4 x 27 x 43,2 cm	50 x 35,5 x 58,3 cm
Weight:	17 kg	23,8 kg

Both models are supplied with: 10-meter screened signal cable (XLR- XLR), 2-meter power supply cable

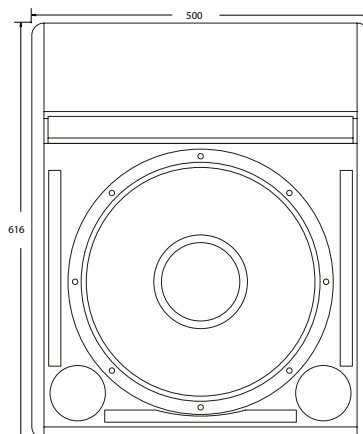
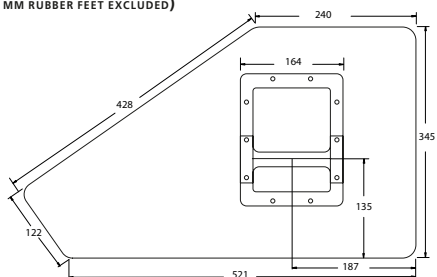
M22A

ALL UNITS IN MILLIMETERS
(10 MM RUBBER FEET EXCLUDED)



M44A

ALL UNITS IN MILLIMETERS
(10 MM RUBBER FEET EXCLUDED)



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