AMADEUS

ML12D

TECHNICAL SPECIFICATIONS

ACOUSTICAL SPECIFICATIONS

Amplitude linearity (± 3dB)	45 - 350 Hz
Operating frequency range (- 6dB)	40 - 350 Hz
Cut off frequencies (- 10dB)	35 - 350 Hz
Number of ways	1
Sensitivit	97 dB
Maximum SPL (*)	127 dB
Horizontal coverage	360°
Vertical coverage	360°

(*) Peak level at 1-meter under free field conditions using 12 dB crest factor pink noise

TECHNICAL SPECIFICATIONS

Nominal impedance	8 Ω
AES power handling	900 W
Program power handling	1 800 W
Peak power handling	2 500 W
Transducer (LF)	1 x 12"
Enclosure type	Bass-Reflex
Crossover type	DSP
Amplifier class	Class D 1-way amplifier

AUDIO PERFORMANCE

THD + N 20 Hz - 20 kHz for 1 W	< 0.05 %
THD + N at 1 kHz and 1 dB below clipping	< 0.04 %
Input impedance	Balanced > 10 kΩ
Dynamic range	> 119 dB
Processing	64-bit floating-point processing resolution
A to D conversion	24 bit
Internal sample rate	96 kHz
Formats (AES/EBU)	24 bit

LOUDSPEAKER PROCESSING

Crossover	Multiple filter types (Butterworth, Linkwitz-Riley, Bell, High Shelf, Low Shelf, Notch, All Pass, Band Pass, High Pass, Low Pass) up to 24 dB/Oct.
Control and monitoring interface	Full configuration and real-time monitoring via PC, Mac and iPad
Presets	99 user-definable presets

CONNECTORS AND BUTTONS

Input connectors (Analog)	1 x Male XLR (Pin 2+, Pin 3-), 1 x Female XLR (Pin 2+, Pin 3-)
Input connectors (AES/EBU)	1 x Male XLR (Pin 2+, Pin 3-), 1 x Female XLR (Pin 2+, Pin 3-)
Input connectors (Dante)	2 x RJ45 etherCON
Mains connectors	1 x IEC 16 A
Buttons	Power, Up, Down
Encoder	Adjust, Set

PHYSICAL SPECIFICATIONS

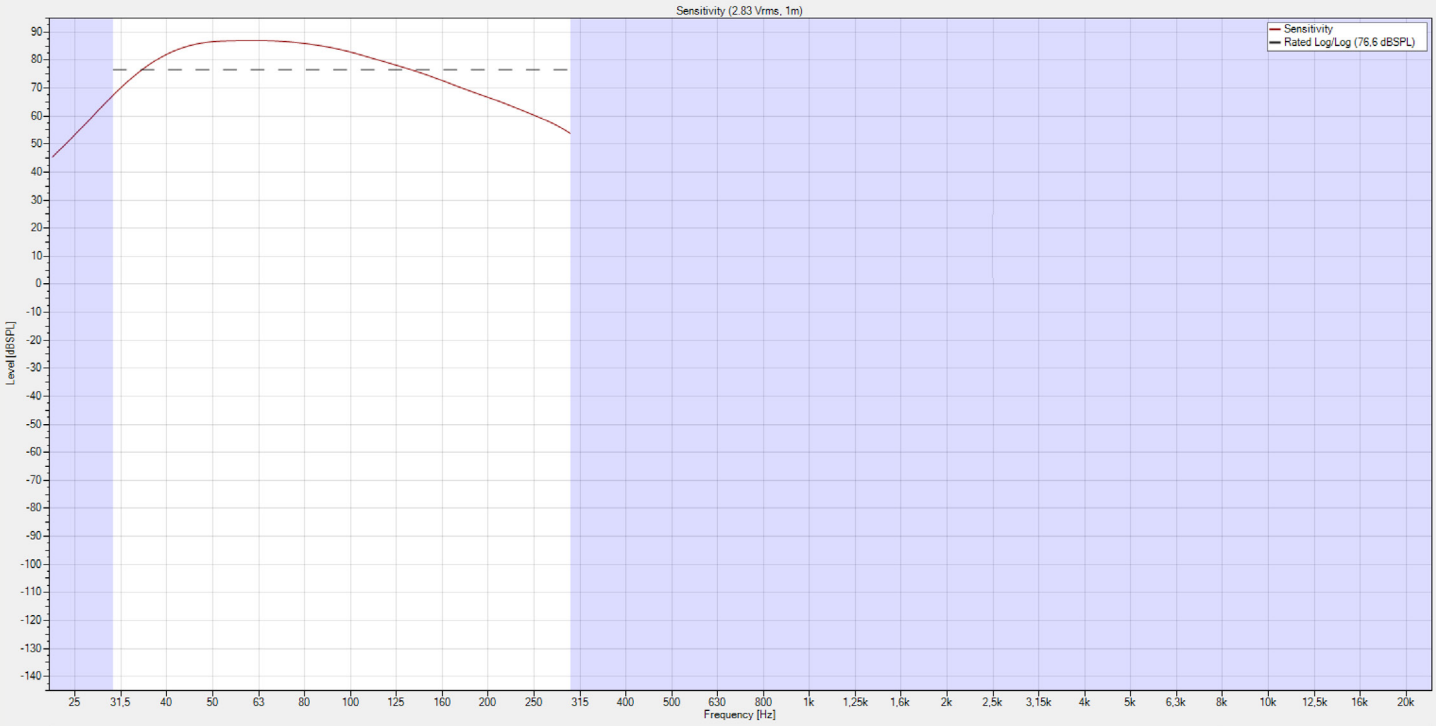
Height	16.33 in (415 mm)
Width	15.27 in (388 mm)
Depth	21.61 in (549 mm)
Weight	68.89 lbs (31.25 kg)
Handles	2
Rigging	4 x M8 threaded inserts for optional U-Bracket 1 x screw receptacle for satellite pole

REFERENCES

ML 12 D	Self-powered active subwoofer with Analog, AES3 and Dante I/O (1 x 12" LF)
LYRE ML 12	U-Bracket for ML 12 and ML 12 D
FA1ML12	Flight Case featuring casters with brakes for one Amadeus ML 12 or ML 12 D
FA2ML12	Flight Case featuring casters with brakes for two Amadeus ML 12 or ML 12 D
9005	Jet Black finish for cabinet, based on RAL 9005 color
9010	Pure White finish for cabinet, based on RAL 9010 color
1013	Oyster White finish for cabinet, based on RAL 1013 color
7040	Window Grey finish for cabinet, based on RAL 7040 color
7030	Stone Grey finish for cabinet, based on RAL 7030 color
5011	Steel Blue finish for cabinet, based on RAL 5011 color
9005	Jet Black color for Airtex © acoustical fabric, based on RAL 9005 color
9006	White Aluminium color for Airtex © acoustical fabric, based on RAL 9006 color
9010	Pure White color for Airtex © acoustical fabric, based on RAL 9010 color
1035	Pearl Beige color for Airtex © acoustical fabric, based on RAL 1035 color
1036	Pearl Gold color for Airtex © acoustical fabric, based on RAL 1036 color

SENSITIVITY GRAPH

The sensitivity graph is identical to the transfer function graph for the on-axis location with two exceptions. First is that the display is of magnitude only. There is no phase data to be shown on this graph. The second is that the level is referenced to 1-meter and an RMS input voltage of 2.83 V. The sensitivity value is calculated over the bandwidth defined by the upper and lower frequency limits entered for the rated frequency bandwidth. This is in keeping with the definition of sensitivity in IEC 60268-5 for an RMS input of 2.83 V.



STANDARD COLOR CODES

Amadeus systems offer a standard 'Jet Black' finish, based on RAL 9005 color. The following codes allow you to select separately the colors associated with the different external elements that Amadeus systems are composed of.

REFERENCE / **** [1] / **** [2]

**** [1] RAL COLOR CODES FOR CABINETS AND MECHANICAL ELEMENTS

**** [2] RAL COLOR CODE FOR AIRTEX © ACOUSTICAL FABRIC

For example, a two-color PMX 5 MKII system with 'Jet Black' cabinet (RAL 9005) and 'White Aluminium' Airtex © fabric in front of the protection grid (RAL 9006) gets the code PMX5MKII/9005/9006. Another example, a single-color DIVA XS system, made with a 'Pure White' (RAL 9010) cabinet and mechanical elements and a 'Pure White' (RAL 9010) acoustical fabric Airtex © covering the protection grid gets the code DIVAXS/9010/9010.

Please contact us if you want to order any specific color.

HIGHLY RESISTANT FINISH (HRF)

Amadeus recently invested in a new painting area featuring new painting machines able to produce a high-resistance resin-based finish, making the speakers highly resistant to scratches, shocks and water projections.

This new optional finish, increasing the systems' durability as well as the degree of protection provided by enclosures against intrusion, dust, accidental contact, and water up to IP55 (EN 60 529) is now available available on-demand.

Please contact us if you want to order any specific finish.

ACCESSORIES TO MEET YOUR NEEDS

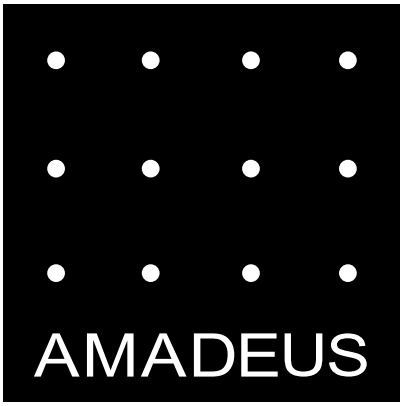
Accessories are often the forgotten detail. They are, however, a vital component in a complex speaker setup.

To compliment our core product offering, we also provide an extensive range of accessories.

The selection of accessories includes a huge number of mounting and connecting accessories, available to accommodate any configuration of installation.

The key to our success is to remain flexible. We have a unique manufacturing programme which allows us to efficiently produce anything from small batches to an automated production process for large scale manufacturing.

Please contact us if you want to order any specific accessory.



18 Rue Marc Seguin 77290 Compans (France)
Limited company (SA) with a share capital of 60 980 € - VAT : FR11318291564
Main : 00 33 (1) 64 67 02 47 - Fax : 00 33 (1) 64 67 20 00 - E-mail : info@amadeuslab.com - Website : www.amadeuslab.com