

# EMES

## AMBER / AMBER HR active



Mastering

Recording

Video Studio

Project Studio

MODUMO



[www.emes.de](http://www.emes.de)

# AMBER / AMBER HR

## Applications

**VIDEO  
BROADCAST  
RECORDING  
PROJECT STUDIO  
MASTERING**

## Arrangement/Configurations

**STEREO  
EmbracingSound™  
ADVANCED SURROUND™  
MODUMO™**

## Features

### 320W amplifier

- ◆ Eliminates time related distortion
- ◆ controlled damping

### 10" Fibreglas Woofer

- ◆ Dual Coil Long excursion driver
- ◆ +/- 16mm membrane excursion

### By-Pass function via remote

- ◆ Sub-Woofer by-pass
- ◆ Satellites filtered / or full range

### Level and Phase control

- ◆ Sensitivity adjustable and Phase
- ◆ -40 to + 10dB
- ◆ from 0 to 360 degree (12 steps)

### 80/150 Hz Filter



Active Electronic AMBER / AMBER HR

## Diagrams/Specs



Frequency response AMBER 80/150Hz



Frequency response AMBER HR 80/150Hz

## AMBER / AMBER HR

In keeping with the EMES compatible and interchangeable Monitoring philosophy, we have designed the AMBER and AMBER HR sub woofers. These units can accompany various models in our 2 way near field line as Sub-Bass Units (see also EMES MODUMO (Modular Monitoring) brochure) or as a Sub-Woofer in a 5.1 surround system.

We have chosen a single Driver design to make the AMBER as compact as possible.

A Compact Sub - that can deliver really good low end!?!?

32 Hz (-3dB) for a 290 x 420 x 450mm (42 litre) or even 28 Hz on the AMBER HR, if you need more then you still have the option to stack two of them together!

To achieve these figures in a compact sized cabinet, you need a specially designed driver - the EMES XLS-Driver!

This 10 inch dual coil long excursion Fibreglass Membrane XLS-driver is a very low compression driver with a coil excursion of +/- 16mm.

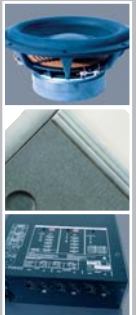
The driver is constructed in such a way so that the air, normally sealed in the Air gap of the magnet system, can circulate. Finally the Airflow is nearly non resistant to the coil movement, which results in a very accurate (linear) membrane excursion. The Impulse response and Low End precision is really remarkable for Sub-Bass unit this small! And there is no heat related compression either!

To support the driver specs we have equipped the removable active electronics with a powerful 2 x 160W amplifier module!

The AMBER / AMBER HR has everything on board to allow the units to be used as a Sub-Woofer for multi channel applications, plus functions and controls dedicated to use with our near fields to build a modular 3 way Monitoring system.

Balanced XLR - Input and Output connectors for 3 channels (L/C/R) are implemented, these can be used simultaneously as inputs and filtered outputs. The Filter section can be set to operate at 80Hz or 150Hz and be turned off for Surround applications. If the Subs are to be placed in a different listening distance the relative phase can be controlled separately by dipswitches in a wide range from 0 to 360 degrees to get optimal time alignment. The value per Step is 30 degree (equal -35cm at 80Hz). Also the Input level is adjustable by dip switched from +6dB down to - 25dB.

A useful feature of the EMES Sub-Bass units is, especially if they are used as frequency extension units for our Near field monitors (MODUMO™), is to bypass the filter section. The signal path than can then be monitored frequency extended (Off), or non extended (On)!



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**MODUMO and AdvancedSurround** Trademarks owned by EMES

## SYSTEM

	AMBER	AMBER HR
System design	Dual coil long excursion bass reflex	Dual coil long excursion bass reflex
Lower cut off frequency	32 Hz (-3dB)	28 Hz (-3dB)
Frequency response (free field)	32-2.000 Hz (±3dB)	28-2.000 Hz (±3dB)
Maximum output, sine wave	118 dB	118 dB
Maximum output, long term, (RMS)	115 dB	115 dB
THD at 95dB SPL <100Hz	1,60%	1,60%
THD at 95dB SPL >100Hz	0,50%	0,50%
Bass-driver	1 x 25cm , fibreglass	1 x 25cm , fibreglass
Shielded Version	no	no
Weight	23,5 Kg	32,2 Kg
Dimensions (width/height/depth)	290 x 420 x 450 mm	380 x 480 x 450 mm

## ELECTRONIC

	AMBER	AMBER HR
Type of input connector	3 x XLR, female (L/C/R)	3 x XLR, female (L/C/R)
Type of output connector	3 x XLR, male(L/C/R)	3 x XLR, male(L/C/R)
Input impedance	10 kOhm	10 kOhm
Input level adjustment	32 steps from 0,45 - 4,5V	32 steps from 0,45 - 4,5V
Low pass filter	20 Hz / 18dB	20 Hz / 18dB
X-over frequency	80 / 150 Hz	80 / 150 Hz
X-over bypass / woofer mute	yes	yes
Phase polarity (degree)	0/180	0/180
Phase control (degree)	30/60/90/120/150	30/60/90/120/150
RMS output Bass-amp	2x160 W	2x160 W
Distortion at maximum acoustic output	0,40%	0,40%
Signal to noise ratio, at full output	102 dB	102 dB
Main voltage	115 / 230 V ±20%	115 / 230 V ±20%
Type of Power supply	analogue	Analogue
Power consumption (full output)	340 W, 25 W stand by	340 W, 25 W stand by

## Main Purpose

	AMBER	AMBER HR
Listening distances	100 - 450 cm	100 - 450 cm
Near field	x	x
Mid field	x	x
Main monitoring	x	x

# EMES

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