

# EMES

## BLUE HR active

### 2 way active



Mastering

Recording

Video Studio

Project Studio



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

# BLUE HR active

Applications

**RECORDING  
MASTERING  
PROJECT STUDIO**

Arrangement/Configurations

**STEREO  
SURROUND  
MODUMO™**

Features

### 3 identical 120W amplifier

- ◆ Eliminates time related distortion
- ◆ Controlled damping

### CARBON Woofer

- ◆ 2 x 18cm Carbon/Paper membrane
- ◆ Resonant free Cone

### SILK DOME Tweeter

- ◆ 28mm silk dome
- ◆ Superior transient response
- ◆ 1000Hz X-Over FC

### Level control

- ◆ Sensitivity adjustable
- ◆ -40 to + 10dB

### Low end control

- ◆ Corrects Low end from -6 to +4 dB
- ◆ Room compensation
- ◆ Corner/Wall placement Eq

### High end control

- ◆ Corrects High end from -4 to +4 dB
- ◆ Room compensation
- ◆ Adjustable (Listening taste)

Diagrams/Specs

EMES's most powerful 2-way system, the BLUE HR active is designed as a D'Appolito configuration.

Many Mastering & Recording studios have already chosen the BLUE HR to work with.

With the BLUE HR you get a mix that is "compatible" in a wide range of reproduction situations.

D'Appolito's idea has been modified due allow for the many different types of Studio environments, Instead of being vertical aligned the 2 woofers and the tweeter are triangular aligned, this alignment achieves a very condensed speaker arrangement, but keeps the benefit of the constant sound field of the D'Appolito configuration!

The Tweeter is used in the BLUE's is a little unusual, it can go as low as 1000 Hz, and is supported by our molded Horn element (part of the EMES "liquid baffle design"). This tweeter was chosen as it can assist in the reduction of Comb filter effects that can occur when the horizontal distance between the two woofers is close!

The Carbon woofers are also used in our VIOLETT HR actives and OWL-System. Using two identical woofers per box doubles the power handling, and also brings the lower System cut off frequency down to astonishing 35Hz (-3dB)!

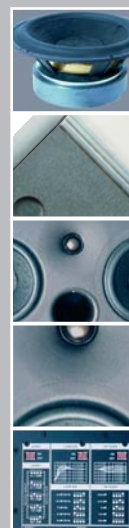
Also very unusual in a 2 way System is the amplifier section that contains 3 amplifiers. In the BLUE R active every driver has it's own amplifier, and again they are identical in terms of design and power rating (120W each). This gives the least distortion and the best damping control to the woofer's coil movement!

To adjust the monitors to the room acoustics and your personal listening taste, we have implemented dip-switches for input level, bass- and high frequency adjustments. All are fixed valued Dip-Switches! So every Monitor can be set identical within minimized tolerances.... important for Stereo-, 5.1 and Advanced Surround™ Systems.

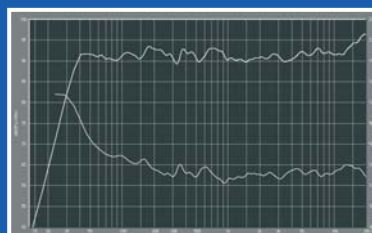
When a powerful, precise and natural sonic image is needed, the BLUE HR active is the only choice.

We ship all our monitors as matched pairs with less than ±0,5 dB difference!

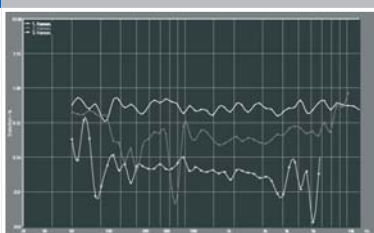
With our MODUMO™ concept: add an AMBER HR active sub unit and you can achieve a powerful 3-way main monitoring system suitable for any control room up to 40m2 (131 ft.)



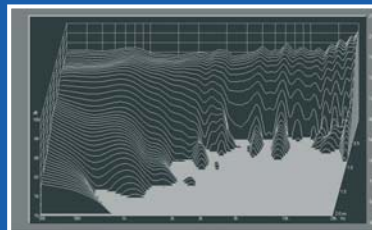
MODUMO and Advanced Surround Trademarks owned by EMES



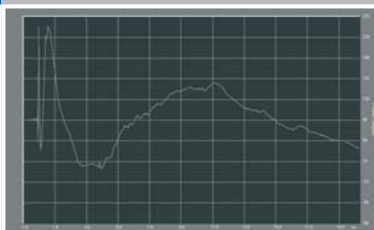
Frequency- and Phase response



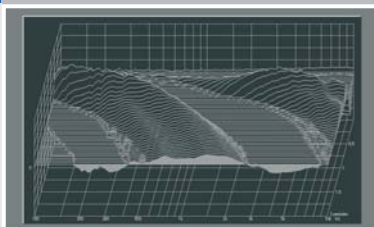
Acoustic THD (Total/H2/H3)



Waterfall



Step response



3D Impulse Response / half cycle

### SYSTEM

System design	2 way bass reflex
Construction / Speaker configuration	D'Appolito
Lower cut off frequency	35 Hz (-3dB)
Upper cut off frequency	21 kHz (-3dB)
Frequency response (free field)	37-20.000 Hz (±2,0 dB)
Maximum output, sine wave (0,1-2 kHz)	114 dB
Maximum output, long term, (RMS)	110 dB
Maximum output, both speakers driven	119 dB
THD at 95dB SPL <100Hz	0,40%
THD at 95dB SPL >100Hz	0,28%
Bass-driver	2 x 18cm , carbon
HF-driver	28mm silk dome
Shielded Version	no
Weight	18,2 Kg
Dimensions (width/height/depth)	480 x 250 x 300 mm

### ELECTRONIC

Type of input connector	XLR, female
Input impedance	10 kOhm
Input level adjustment	16 steps from 0,45 - 4,5V
Lowpass filter	20 Hz / 18dB
Highpass filter	25 kHz / 6 dB
X-over frequency	1.100 Hz (18dB/18dB)
HF-driver level control	16 steps, -4dB - +4 dB
Low frequency control	16 steps, -6dB - +8 dB
RMS output Bass-amp	2x 120 W
RMS output HF-amp	120 W
Distortion at maximum acoustic output	0,10%
Signal to noise ratio, at full output	102 dB
Main voltage	115 / 230 V ±20%
Type of Power supply	analog
Power consumption (full output)	300 W, 20 W stand by

### Main Purpose

Listening distances	120 - 350 cm
Near field	x
Mid field	x
Main Monitor	x with AMBER HR

# EMES

distributed by:

