EMES

BLACK tv HR active

2 way active



Mastering

Recording

Video Studio

Project Studio





Applications

VIDEO BROADCAST RECORDING PROJECT STUDIO MASTERING

Arrangement/Configurations

STEREO SURROUND MODUMO™

Features

2 identical 100W amplifier

• Eliminates time related distortion

Digital "quick delivery" power supply

- Cycles 2000 times faster
 - Hum canceling
 - Tight and accurate Low End

COAX Driver

- 17cm Polypropylen membrane25mm Textile Neodymium dome
 - Superior transient response
 - ZERO Phase difference
 Magnetically shielded (tv)

Level control

- Sensitivity adjustable
 -40 to + 10dB

Low-end control

- Corrects Low end from -6 to +4 dB

 - Room compensationCorner/Wall placement Eq

High-end control

- Corrects High end from -4 to +4 dB
 - Room compensationAdjustable (Listening taste)

The Black tv HR active is a very versatile Monitor! For more than 10 years, this model has been produced and is actually available in it's 4th generation! It started it's success with the introduction of Computer based digital Workstations. The demand was clear; Screen save design (Shielded Magnetic field), wide audio range and being able to supply an excellent Imaging at very close listening distances!

Due to the chosen coaxial principal (2 way driver were both coils are centred at all 3 dimensions) you get a physically ideal single point source Monitor. The stereo image is a very detailed "straight" line between the L/R Speakers, and is perfectly lined up in a Surround configuration! Another benefit of the single point source reproduction is, no matter how close or far you are the BLACKs don't change it's tonal characteristics!

These are some of the reasons why so many Pro's choose this type Monitor!

The Low end (42-1500Hz) is reproduced by a 17cm Polypropylene membrane driver with a strong magnesium basket. The

highs are emanated by a 25mm textile dome Neodymium tweeter, which is positionened inside the Coil of the Woofer while the woofers membrane acts as a wave guide (horn)! Physically the BLACKs are still quite compact (210x380x250mm) and easy to transport (7,6 Kg)!

The cabinet is made from a specially coated 19mm MDF fabric, this material is very dense, stable and nearly non resonant! We take great care about details, details which have more than just a single purpose to fulfil, example: The silicon edges every EMES-Monitor has do protect the edge - which is obvious, but it also prevents the cabinet from slipping and it isolates the cabinet from the underground! This is one of the many design criteria's EMES developed to reach a perfect audio performance!

The Bi-amped active electronic generate up to 2 x 100 Watt rms power to each driver. We at EMES always use identical amplifiers, to have the lowest time related distortion possible. Different designs or just different wattage cause these time related distortion. Another unique component is our own developed digital "quick delivery" power supply, which works 2000 times faster as a regular one does! This gives a lot have constant energy load to the Amplifier. So a double hit on Bass drum is still a double hit Bassdrum on the reproduction as well. It pushes all the way trough!

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



We ship all our monitors as matched pairs with less than ±0,5 dB difference! Due to our MODUMO™ concept the performance of the BLACKs can be easily expanded!



XLR, female

25 kHz / 6 dB 1.500 Hz (18dB/12dB)

16 steps from 0,45 - 4,5V 30 Hz / 18dB

16 steps, -4dB - +4 dB

16 steps, -6dB - +8 dB

115 / 230 V ±20%

150 W, 10 W stand by

10 kOhm

120 W

120 W

0,10%

106 dB

MODUMO and Advanced Surround Trademarks owned by EMES Diagrams/Specs

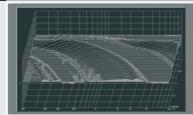


Frequency- and Phase response



Waterfall





SYSTEM

System design Construction / Speaker configuration Lower cut off frequency Upper cut off frequency Frequency response (free field) Maximum output, sine wave (0,1-2 kHz) Maximum output, long term, (RMS) Maximum output, both speakers driven THD at 95dB SPL <100Hz THD at 95dB SPL >100Hz Bass-driver HF-driver Shielded Version Dimensions (width/height/depth)

2 way bass reflex coaxial 40 Hz (-3dB) 21 kHz (-3dB) 42-20.000 Hz (±2,5 dB) 109 dB 106 dB 115 dB 0,90% 0,40% 1 x 17cm , polypropylen 25mm textile dome, neodyme yes 7,8 Kg 210 x 380 x 250 mm

ELECTRONIC

Type of input connector Input impedance Input level adjustment Lowpass filter Highpass filter X-over frequency HF-driver level control Low frequency control RMS output Bass-amp RMS output HF-amp Distortion at maximum acoustic output Signal to noise ratio, at full output Type of Power supply Power consumption (full output)

Main Purpose Listening distances 40 - 300 cm Mid field x with AMBER HR