EAES VIOLETT HR active

2 way active

EMES.



Editing

Recording

Broadcast

Video Studio

Project Studio



www.emes.de

VIOLETT HR active

Applications

VIDEO BROADCAST RECORDING **PROJECT STUDIO** MASTERING

Arrangement/Configurations

STEREO SURROUND **ADVANCED SURROUND™ MODUMO**[™]

Features

2 identical 120W amplifier Eliminates time related distortion

Digital "quick delivery" power supply • Cycles 2000 times faster

- Hum canceling
 Tight and accurate Low End

CARBON Woofer

18cm Carbon/Paper membrane
 Resonant free Cone

SILK DOME NEODYMIUM Tweeter

- 28mm silk dome Neodymium
- Superior transient response

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)

The VIOLETT HR is our recently developed high-resolution monitor

With its amazing sonic capabilities and the compact size, the VIOLETT HR active is ideal for the recording and mastering industry as a personal reference monitor. The VIOLETT HR is also suitable for Surround or any other multichannel Set up incl. our ADVANCED SURROUND System!

All high-resolution models use the latest high tech materials available, like carbon or fiberglass! These Fabrics are used in the most critical part of a true sounding monitor system, the moving mechanism!

The Carbon/Paper composite membrane of the 18cm Woofer is produced in a unique way, it's molded and pressed into it's final shape - dried by air - this gives the material it's characteristic Style. The benefit is an extremely light, stable and non-resonant membrane with a nicely controlled dispersion pattern (see Waterfall).

Please note! The moving Part of a speaker translates the elec-



trical signal into a mechanical movement which directly interacts with the Air in front of it! Alternately, you can call it EMtoA-Converter! So any error introduced at this stage means a great loss of information!

The 18cm Carbon driver and the state of the art 28mm neodymium super light silk dome tweeter combined with our new molded waveguide baffel technology allows us to divide the High and Low section at 1200 Hz. This is an important EMES design feature!

Why this low?!

Typically any Konus driver starts to be very uncontrolled between 1000 to 3000 Hz - depending on its diameter and design, so to compensate for this physical characteristic, we have chosen a tweeter that can go down to 1200 Hz

These unique features and the wave guide design put the VIOLETT HR active, the OWL-System and BLUE HR active into the top Level of today's monitoring technology!

Only selected, high quality components are used to build our HR monitor's! All controls, x-over, amplifiers (2x 120W) and the new "quick delivery" power supply are assembled on a service friendly and intelligent pc-board.

To adjust our monitors to your personal taste and room acoustics, we have implemented controls for the low frequency (± 6dB) and for the high frequency (± 4dB) section, as well as controls for input sensitivity (balanced, unbalanced ± 15dB).

All EMES monitors use a PTZ-protection circuit to guard the hf-drivers from over heating at high listening levels.

We ship all our monitors as matched pairs with less than ±0,5 dB difference. An individual Measurement protocol comes with every HR set!







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Diagrams/Specs





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 Weight Dimensions (width/height/depth)

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 Main voltage Type of Power supply Power consumption (full output)

Main Purpose Listening distances Near field Mid field

2 way bass reflex one plus one 46 Hz (-3dB) 21 kHz (-3dB) 48-20.000 Hz (±2,0 dB) 109 dB 106 dB 115 dB 0,80% 0,35% 1 x 18cm , carbon 28mm silk dome, Ferrofluid no 9,4 Kg 210 x 380 x 250 mm

XLR, female 10 kOhm 16 steps from 0,45 - 4,5V 35 Hz / 18dB 25 kHz / 6 dB 1.300 Hz (12dB/12dB) 16 steps, -4dB - +4 dB 16 steps, -6dB - +8 dB 120 W 120 W 0,10% 106 dB 115 / 230 V ±20% digital 160 W, 10 W stand by

80 - 300 cm

x with AMBER HR

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