# EMES

## OWL-System & mini-OWL

## EmbracingSound™

True imaging without the Stereo Dilemma
"perceive what really is"


OWL-System

Mastering

Editing

Recording

Broadcast

Video Studio

Project Studio

www.emes.de

# mini-OWL / OWL

## Applications

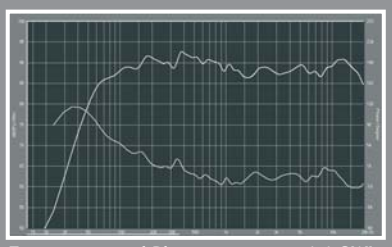
**VIDEO**
**BROADCAST**
**RECORDING**
**PROJECT STUDIO**
**MASTERING**

## Arrangement/Configurations

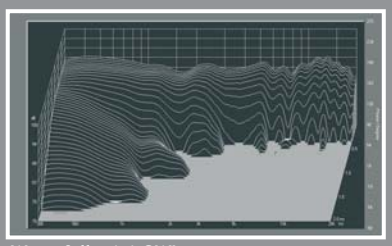
**STEREO**
**EMBRACING SOUND™**
**ADVANCED SURROUND™**
**MODUMO™**

## Features

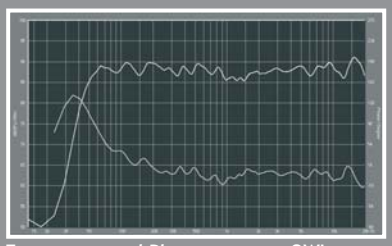
- Incredible Imaging Quality
- Pleasant Listening Area
- Matched System
- Easy to Configure (just place it)
- Fully Compatible



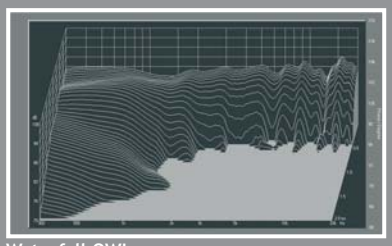
Frequency- and Phase response mini-OWL



Waterfall mini-OWL



Frequency- and Phase response OWL



Waterfall OWL

With the mini-OWL and the OWL System, EMES goes beyond the conventional reproduction arrangements. A conventional stereo arrangements itself introduces artifacts at the "sweet spot" that you as the engineer have to live with - often not realizing that you are trapped by these faults!

The mini-OWL and the OWL System are the most advanced monitoring Systems available based on the EmbracingSound™ system, patents held by the Swedish company EMBRACING SOUND EXPERIENCE AB.

The EmbracingSound™ system comprises the Transducer configuration and an adaptation of the stereo signal called the EmbracingSound™ processor.

Instead of reproducing a left and right signal from two wide spread monitors/loudspeakers, a single Monitor Systems is used. Any L/R-signal is used as a feed, which the built in Processor transfers into mid- and side-information. The mid-information is equal to the mono compatible part in a stereo signal. In the next step the Mid information is cancelled from the summed Left/Right channel - which gives the side information (directional part of the stereo signal) The correct mix between the isolated information (mid, positive and negative polarity sides) is then transferred to the two groups of loudspeakers with the purpose to reproduce the Left and right signal to the ears of the engineer, making all decisions easier resulting in a better mix.

That's it - sounds simple - sound ingenious, a step further towards perfection.

Now with this technology at hand everybody is able to experience the definition capabilities of a proper stereo signal and to be in a position to perceive all the information put into a recording! Even if this concept is far from what we knew, it gives the engineer a very good representation of what is stored on the media!

“Please keep in mind -The media is copied and published to the end user and never the listening situation!!! So you got to know what’s on “tape””!

The EMES mini-OWL and OWL-System are 2-channel 2 way active system (complimentary Mono Speaker are PINK tv active and VIOLETT HR active - please consult related product brochure for details) using the EmbracingSound™ technology to reproduce a 180-degree wide "embracing" sound image from one box. The active control delivers 4 x 80 W (mini-OWL) and 2 x 120W (OWL) peak power to the two woofers and the two soft dome neodyme tweeter.

All components are matched to get a max. pair-difference of ±0.25dB!!

"We have to build it within these limits so the performance does not suffer. - And we want the best possible quality after waiting for such a long period of time."

Please see also EMES ADVANCED SURROUND™/MODUMO™/Pink tv and VIOLETT HR active brochures for additional information!

Technical information: www.emes.de www.embracingsound.com



## Specs

| **SYSTEM** | **mini-OWL** | **OWL** |
|---|---|---|
| System design | 2 channel, 2 way bass reflex | 2 channel, 2 way bass reflex |
| Construction / Speaker configuration | one plus one / EmbracingSound™ | one plus one / EmbracingSound™ |
| Lower cut off frequency | 68 Hz (-3dB) | 46 Hz (-3dB) |
| Upper cut off frequency | 20 kHz (-2dB) | 21 kHz (-3dB) |
| Frequency response (free field) | 70-20.000 Hz (±3 dB) | 48-20.000 Hz (±2,0 dB) |
| Maximum output, sine wave (0,1-2 kHz) | 108 dB | 111 dB |
| Maximum output, long term, (RMS) | 105 dB | 108 dB |
| Maximum output, both speakers driven | 114 dB | 118 dB |
| THD at 95dB SPL <100Hz | 1,10% | 0,80% |
| THD at 95dB SPL >100Hz | 0,50% | 0,35% |
| Bass-driver | 2 x 14cm, polypropylen | 2 x 18cm , carbon |
| HF-driver | 2 x 25mm textile dome, Ferro fluid | 2 x 28mm silk dome, Ferro fluid |
| Shielded Version | yes | no |
| Weight | 10,4 Kg | 18,0 Kg |
| Dimensions (width/height/depth) | 327 x 290 x 200 mm | 380 x 380 x 250 mm |
| **ELECTRONIC** | | |
| Type of input connector | XLR, female | XLR, female |
| Input impedance | 10 kOhm | 10 kOhm |
| Input level adjustment | 16 steps from 0,45 - 4,5V | 16 steps from 0,45 - 4,5V |
| Lowpass filter | 45 Hz / 18dB | 35 Hz / 18dB |
| Highpass filter | 25 kHz / 6 dB | 25 kHz / 6 dB |
| X-over frequency | 1.700 Hz (12dB/12dB) | 1.200 Hz (12dB/12dB) |
| HF-driver level control | 16 steps, -4dB - +4 dB | 16 steps, -4dB - +4 dB |
| Low frequency control | 16 steps, -6dB - +8 dB | 16 steps, -6dB - +8 dB |
| RMS output Bass-amp | 2 x 80 W | 2 x 120 W |
| RMS output HF-amp | 2 x 80 W | 2 x 120 W |
| Distortion at maximum acoustic output | 0,10% | 0,10% |
| 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 | digital | digital |
| Power consumption (full output) | 240 W, 20 W stand by | 320 W, 20 W stand by |
| **Main Purpose** | | |
| Listening distances | 100 - 250 cm | 120 - 350 cm |
| Near field | x | x |
| Mid field | x with AMBER | x |
| Main Monitor | | x with AMBER HR |

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