



HR3



"Unlimited dynamic range, total transparency. Truly a revelation.
Ocean Way Monitors finally bridge the gap between super high
resolution audiophile and totally accurate studio reference monitors."

- *Allen Sides*: Recording engineer and designer of Ocean Way Monitors

About the monitor systems:

The Ocean Way HR-3 like the HR-2 is a high resolution reference monitor system designed to satisfy the most discriminating audiophile yet still be capable of meeting the most demanding dynamic range and accuracy required by studio professionals. In the HR-3 we have successfully delivered virtually the same level of performance as the HR-2 in a much smaller configuration.

The HR3 monitor system was initially designed as a high definition reference point to sonically judge intricate musical balances for final mixes but these specific attributes also make the HR-3 an exceptional audiophile speaker. What separates the HR3s from other high end loudspeakers, apart from its use by professionals, is its capacity to provide virtually unlimited dynamic range while maintaining absolutely matched uniform frequency response between channels. The two sides from 1k to 20k typically fall within 1dB of each other creating absolute symmetry in regards to stereo imaging. The HR3s uniform dispersion coupled with very smooth off-axis response from its 15 inch mid bass driver allows for a very wide listening window helping to eliminate the narrow "sweet spot" effect. The HR3's twin 12" sub woofers also produce extended and detailed low end to 20Hz.

In some circles of the audiophile community, the word "professional" can have a somewhat negative connotation. Prior to the HR2 and HR3 "Professional" was often synonymous with loud, harsh and a lack of sonic depth of field. The HR3 bridges the gap between superb audiophile speakers and accurate professional studio monitors. There is nothing currently manufactured anywhere in the world, at any price that looks, sounds or performs like Ocean Way HR3. The HR3 integrates a brilliant horn design with exceptionally wide bandwidth low distortion drivers and a tri-amplified and equalized electronic package second to none.

From an audiophile or a professional recording engineer's standpoint, what could be more perfect? The HR3 will reveal things in your best recordings and mixes you may have never heard and provide dynamics you may have not thought possible

Additional notes:

Most horns have what might be called a signature or definite character to the sound they produce. Generally speaking, the narrower their dispersion the more hornlike they tend to sound. Most horn systems are also crossed over near or actually at their natural cutoff, creating significant response and phase non-linearities. The HR3's unique 90 degree 500 Hz horn has very wide dispersion and even directivity and quite simply doesn't sound like a horn. If you measure the HR3's frequency response at 0 degrees on axis and compare that to 40 degrees off axis, the curves are virtually identical although the HR3's horn is flat down to 500 Hz it's crossed over at 650 Hz allowing for a very smooth transition. Excellent physical and acoustical time alignment between drivers creates an absolutely seamless transition. If you stand 3 feet away from an HR3, you will hear one complete and utterly natural sound. When you get that close to most speaker systems, you will often hear all their components working separately. When listening to a well-recorded voice on a pair of HR3s, it virtually sounds as if the vocalist is standing in front of you. When building a set of HR3's we carefully select and match each set of components we use getting them as close as possible but to achieve the performance we require, finer calibration is needed. To accomplish this, we use a special custom made equalizer with a hand wound toroid for each frequency. This EQ has a very simple signal path with super fast amplifiers which allows us to calibrate each speaker to within 1dB of each other. Spending whatever time it takes to align each of our speakers to meet our strict tolerances and to compare and listen to each set until we are totally satisfied could easily be compared to building a fine musical instrument.

Specifications

- Frequency response +/- 2dB 20Hz – 20kHz
- Symmetry between channels +/- .5 dB 1k to 20kHz
- Maximum SPL – Over 110 dB at 6 feet 20 to 20kHz
- Maximum Power Handling Capacity:
 - High Frequency Driver Max 100 Watts continuous 650 Hz and up
(Note: 1 watt in at 1k measured at 3 feet produces 108 dB)
 - Mid Bass Woofer max 400 watts continuous
 - Twin Sub Bass Woofers max 800 watts continuous
- High Frequency horn with a 90 degree by 40 degree dispersion has a 500Hz cut off
- Crossover points 650Hz and 80Hz, 18 dB per octave

Component description:

- High Frequency driver has an 19,000 gauss magnetic structure and titanium diaphragm with aluminum voice coil, 2 inch throat
- Mid Bass woofer is 15 inch and has an 11,000 gauss magnetic structure with an aluminum voice coil.
- Sub Bass woofers are twin 12 inch and have 11,000 gauss magnetic structures.

Size and weight:

HR-3: 305LB 28" width x 29" max depth x 51" height each cabinet