

# MYTHO 6

## ACTIVE TWO-WAY 6.5" DSP MONITORING SYSTEM



MYTHO 6 is a two-way reference studio monitor that features a high quality large metal dome tweeter for the best vocal reproduction and a 6" neodymium vented woofer with a large sized 51 mm voice coil that guarantees very high energy for tight and controlled bass reproduction and perfect thermal stability with minimum power compression.

The magnetic circuit features a special air ventilation to reduce air compression, air noises and minimize distortion in large excursion situations. The MYTHO 6 is equipped with two separate amplifiers: 200 W for the low frequencies and 100 W for the high. The design is a classic AB circuit, unparalleled for low distortion and natural sound. The signal processing is executed from a dedicated high quality DSP processing. It features a solid aluminium cabinet internally braced and reinforced to improve low frequencies behaviour and reduce resonances.

Ultra low noise operational amplifiers and a dedicated analogue-digital converter take care of signal input amplification and translation in the digital domain.

The signal processing is executed from a dedicated high quality Dsp. The digital choice guarantees fine crossover tuning and accurate multipoint two way equalization independent from temperature and component tolerances.

Soft signal clipping and transducers protections are integrated in the Dsp processing.

A special algorithm runs in RCF during the final speaker testing to calibrate the speaker sensitivity and cancel even the smallest difference from the ideal curve response

### APPLICATIONS

- Professional recording studios
- Project studios
- Audio/video production facilities
- Compact voice reinforcement systems
- Home Recording
- Hi-End home music reproduction
- Small to mid size control rooms

### FEATURES

- True active 200 W + 100 W class AB design
- Dedicated DSP processing
- Fully featured input board
- 6.5" neodymium ICC vented woofer
- 1" aluminum dome tweeter
- Constant directivity wave-guide
- Die cast aluminum cabinet
- Reflection free cabinet design
- Low distortion reflex port

### ACOUSTICAL SPECIFICATIONS

Frequency response:	40 Hz- 20 KHz
Max SPL:	114 dB
Horizontal coverage angle:	110°
Vertical coverage angle:	70°
Compression driver:	1.0" neo, 25 mm voice coil
Midrange:	-
Woofer:	6.5" neo, 51 mm voice coil

### INPUT SECTION

Input signal (Impedance):	10 K $\Omega$
Input/Output connector:	combo xlr-jack
Input sensitivity:	+ 6 dBu

### PROCESSOR SECTION

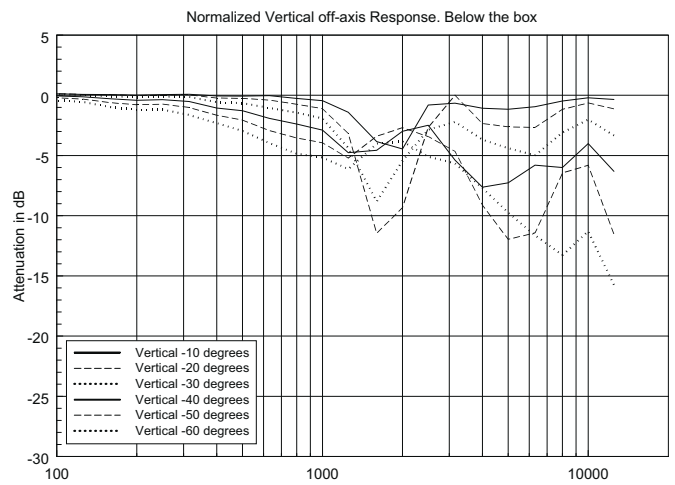
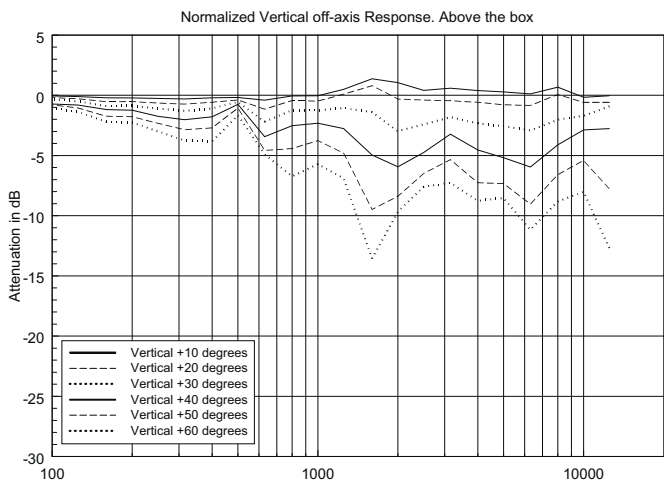
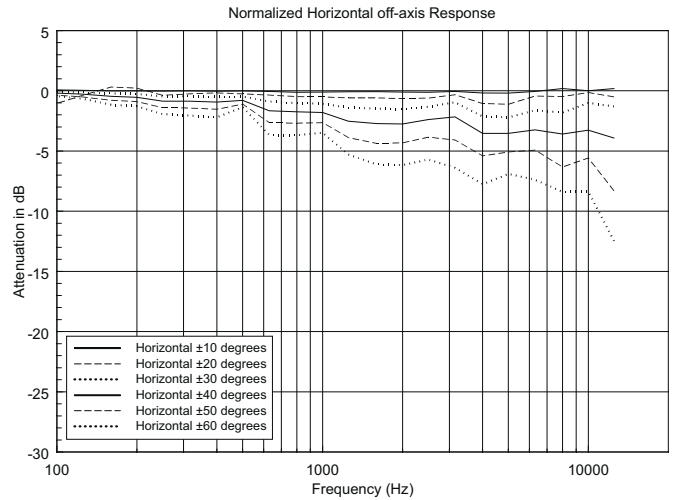
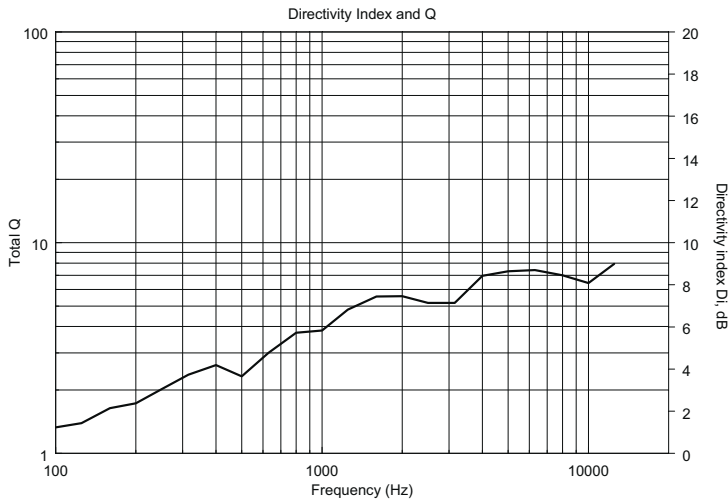
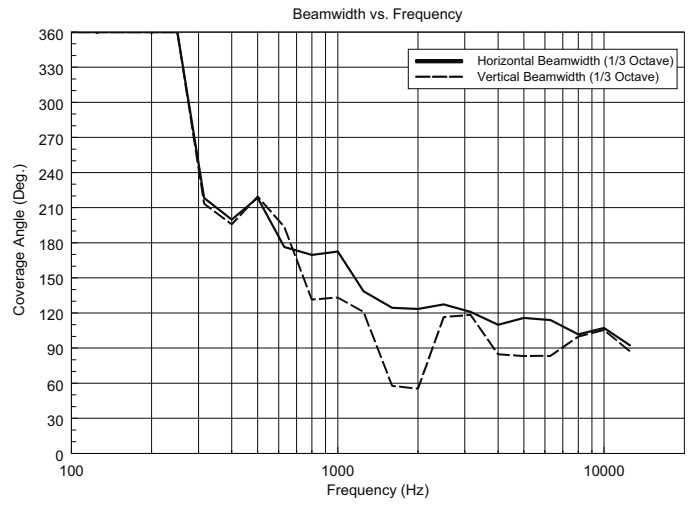
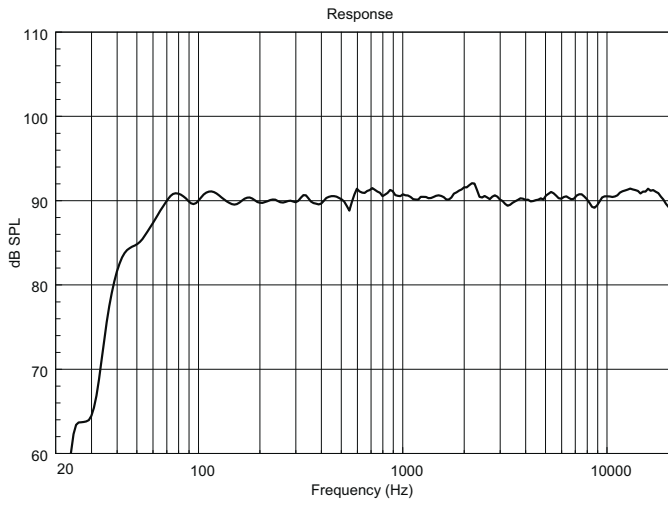
Crossover frequencies:	1900 Hz
Protections:	thermal, excurs, rms
Sensitivity control:	$\pm$ 6 dBu
Limiters:	soft limiter
High pass:	80 Hz
Controls:	bass tilt, roll-off, treble tilt, desktop, dsp controlled

### AMPLIFIER

Power supply:	300 Watt
High frequencies:	100 Watt
Mid frequencies:	-
Low frequencies:	200 Watt
Cooling:	convection
Connection:	VDE

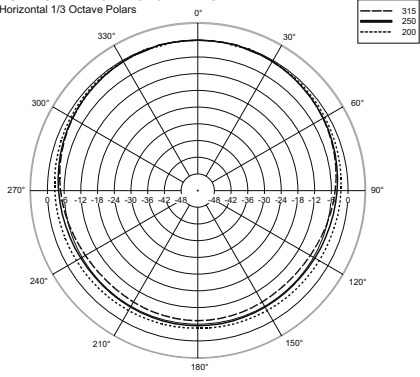
### PHYSICAL

Height:	370 mm (14,56")
Width:	265 mm (10,43")
Depth:	250 mm (9,84")
Weight:	10.5 kg (23,14 lbs)
Cabinet:	die cast aluminum
Hardware:	orientation adjustable stand, standard omnimount
Handles:	-
Pole mount cap	-
Colour:	Matt Black

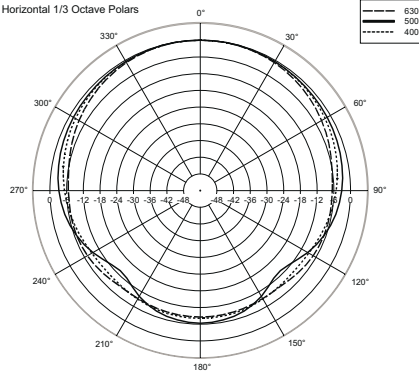


**Horizontal 1/3 Polar Plot**

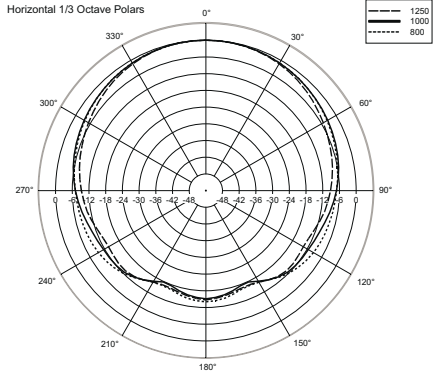
Horizontal 1/3 Octave Polars



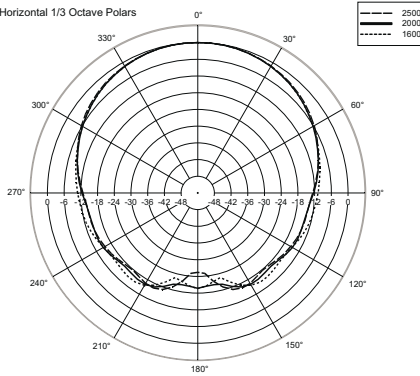
Horizontal 1/3 Octave Polars



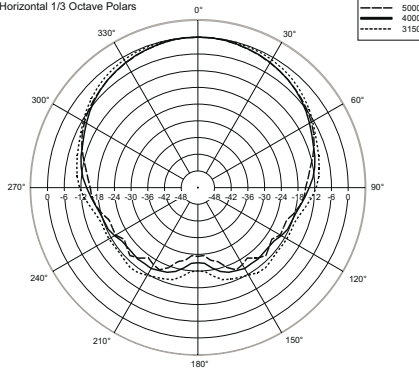
Horizontal 1/3 Octave Polars



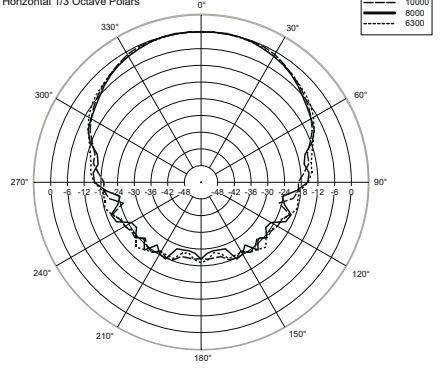
Horizontal 1/3 Octave Polars



Horizontal 1/3 Octave Polars

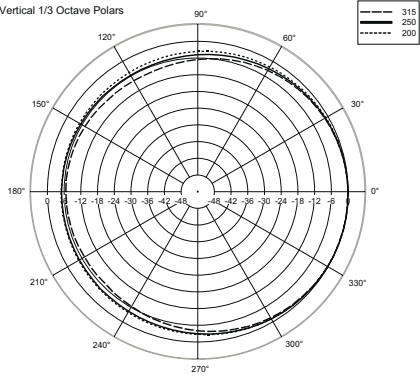


Horizontal 1/3 Octave Polars

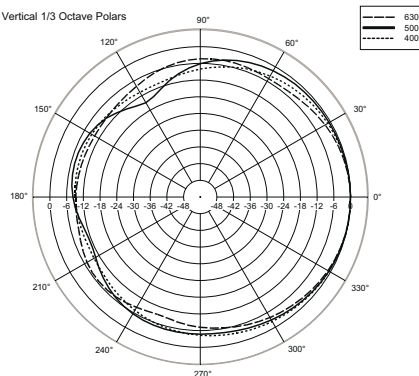


**Vertical 1/3 Polar Plot**

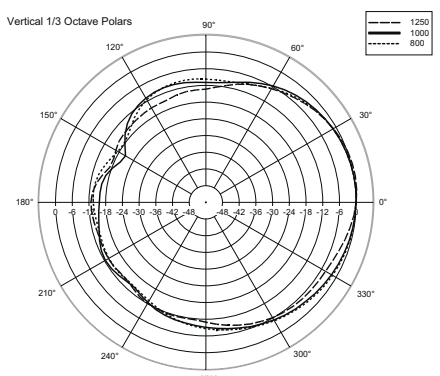
Vertical 1/3 Octave Polars



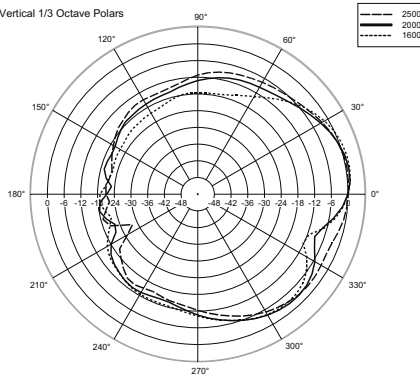
Vertical 1/3 Octave Polars



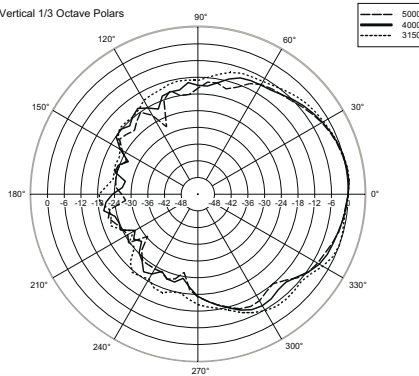
Vertical 1/3 Octave Polars



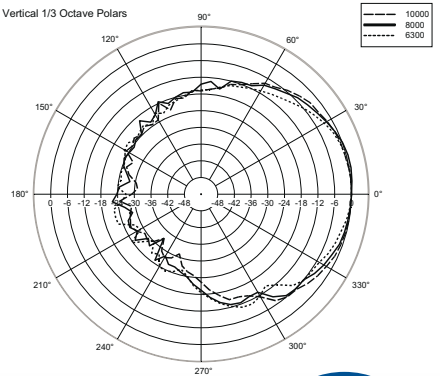
Vertical 1/3 Octave Polars



Vertical 1/3 Octave Polars



Vertical 1/3 Octave Polars



CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS  
(ALSO KNOWN AS "A&E SPECIFICATIONS")

The following are "Part 2 Products" CSI-type specifications.  
It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.

PART 2 PRODUCTS

**2.01 Approved Manufacturer/Product**

- A. RCF, Via Raffaello 13, 42124, Reggio Emilia, Italy.
- B. Model number: MYTHO 6

**2.02 Design**

Configuration:	Active two-way 6.5" dsp monitoring system
LF Sub-section:	6.5" neodymium woofer, 51 mm voice coil
MR Sub-section:	-
HF Sub-section:	1,0" neodymium, 25 mm voice coil

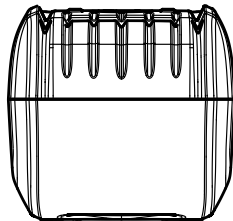
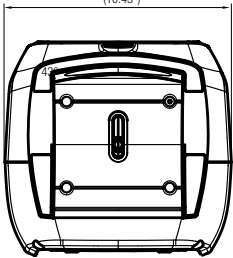
**2.03 Acoustical Proprieties**

Nominal dispersion angle:	110° x 70°
Axial frequency range:	40Hz-20kHz

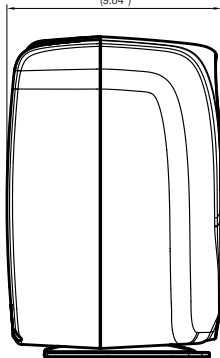
**2.04 Physical Properties**

Cabinet:	Die cast aluminum
Rigging inserts:	standard omnimount
Color:	Matt Black
Grille:	-
Input Connectors:	Combo xlr-jack
Dimensions (H x W x D):	370 x 265 x 250 mm (14,56" x 10,43" x 9,84")
Weight:	10.5 kg (23,14 lbs.)

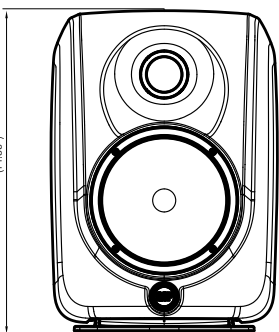
265mm  
(10.43")



250mm  
(9.84")



370mm  
(14.56")



the rules of sound

