recording

the rules of sound

RCF

ENG

BORN WITH 60 YEARS OF EXPERIENCE

Since 1949 RCF has been at the forefront of the audio industry constantly innovating in technology to develop groundbreaking products for every professional audio need. Thanks to our great heritage we are one of a few loudspeakers manufacturers worldwide who have the ability to completely design and manufacture transducers, speaker systems, amplification, cabinets and control electronics. This allows us to offer innovative projects with final control of each detail and to create the components that perfectly match each other for every product.
The same care and attention has been used for the Mytho Series, a line of reference monitors that combine the legendary quality and reliability of RCF precision transducers with the latest development in digital amplification technology and acoustic design.
New addition to the RCF recording segment is the Ayra Series, a new line with three models and a dedicated subwoofer.

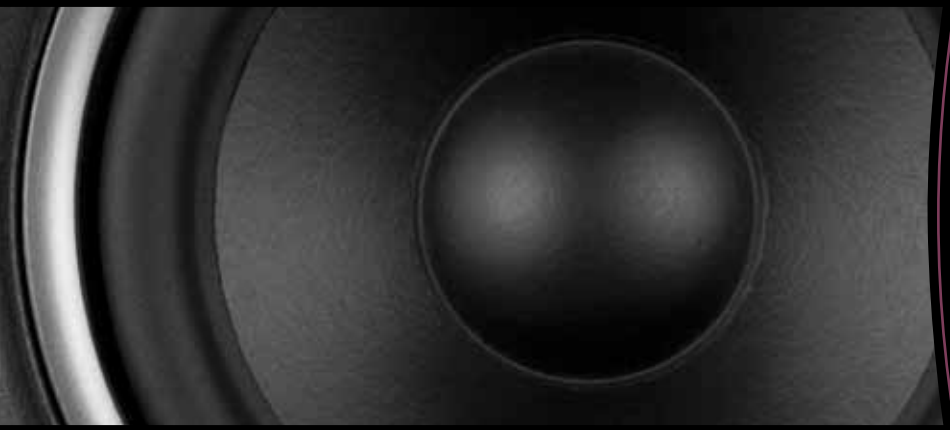
• recording

BRINGING OUR PROFESSIONAL AUDIO ATTITUDE TO THE STUDIO

A studio reference monitor is the key tool for the recording engineer to transform a live sound performance in a mix that will be played by people at their home or on their portable players. This concept was the foundation of our designing process for the Mytho speakers. In our history we had the opportunity to explore and manufacture live sound products, hi-fi products and also to introduce some notable technologycal innovations in the studio recording technology such as the integrated tweeter-midrange system in our 1990 RCF SDC6000 studio monitors.
This is why we decided to combine our state of the art active live sound systems experience with our 30 plus years of hi-fi audio heritage to create a studio monitor which represents the connection between this two worlds.
The experience and the knowledge we acquired it has been also used for the new Ayra Series, that comes with modern technology and with a smooth design.

ICC TECHNOLOGY

The Mytho woofers feature a unique "Impedance Control Coil" technology. A secondary coil wound on the speaker yoke and driven in opposite phase to the primary coil has the function of cancelling the primary coil inductance, increasing the speaker sensitivity and reducing the speaker distortion. A primary effect of this technology is the improvement of the temporal behaviour of the speaker, improving the crossover transition from the woofer to the tweeter and resulting in incredible midrange accuracy and perfect phase linearity.



ALUMINUM CABINET

The die cast aluminium cabinet is the result of many years of experience. The cabinet is internally braced and reinforced to improve low frequencies behaviour and reduce resonances. The internal volume is maximised in comparison with more traditional wooden cabinets. The external shape of the cabinet is precisely designed to minimize edge reflections. The front baffle integrates a "precision directivity" wave-guide designed to improve the treble dynamics and create uniform high frequency dispersion. Special attention has been dedicated to the bass reflex air port design. The cabinet vertical angle can be adjusted to optimise the orientation for the listening position.

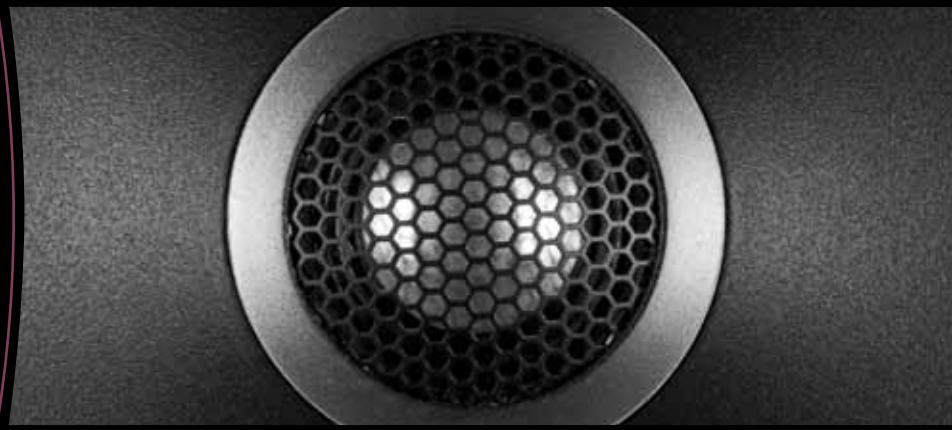
WOOFERS

The Mytho woofers feature a large sized 51 mm voice coil. This 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.

DEDICATED POWER

Mytho monitors are true active speakers: two separate amplifiers power the transducers, 200 Watt power for the low frequencies and 100 Watt drive the trebles.
The design is a classic analogue AB circuit, unparalleled for low distortion and natural sound.



HIGH DEFINITION TWEETER

Mytho monitors features high quality metal dome tweeter. The dome is large for the best vocal reproduction and the design represent the state of the art for high frequencies definition. During production each single tweeter is measured and selected trough many accurate performance testing.

DSP PROCESSING

The signal processing is executed from a dedicated high quality DSP processing. The numerical choice guarantees fine crossover tuning and accurate multipoint two way equalization independent from temperature and component tolerances. Soft amplifier clipping and transducers protections are integrated in the DSP processing.

MYTHO 6

TECHNOLOGY AND CRAFTSMANSHIP

In RCF, technology stands side by side with craftsmanship. Along with the most advanced production technology an impressive staff of skilled workers builds an check every component of our products in our main factory and headquarters in Italy.

INPUT BOARD

The Mytho input boards features all the controls to accurately set up the system in every situation:

- Balanced XLR signal input
- Sensitivity control, to adjust the speaker sensitivity from –6 dBu to +6 dBu
- Treble and bass mute, to mute and listen single transducers
- Treble tilt control, to adjust treble level at 1 dB steps
- Bass tilt control, to adjust bass level at 1 dB steps
- Bass roll off control, to high pass low frequency with four different filters
- Desktop correction, to correct various speaker positioning

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

p/n 13000194

- True active 200 Watt + 100 Watt class AB design
- Dedicated DSP processing
- Fully featured input board
- 8″ ICC vented woofer
- 1″ aluminium dome tweeter
- Constant directivity wave-guide
- Die cast aluminium cabinet
- Reflection free cabinet design
- Low distortion reflex port

p/n 13000195

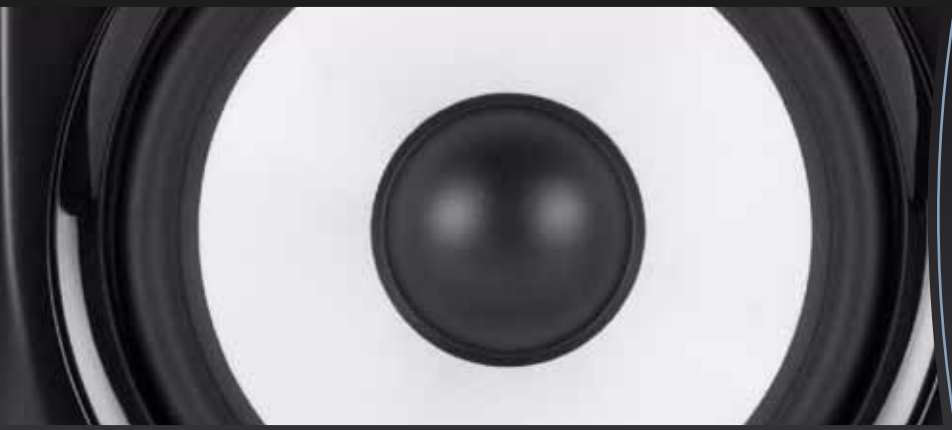
TUNED ONE BY ONE

Even small differences in level or sound coloration from speaker to speaker can make very hard the work of the sound engineer. Each component of Mytho speakers is carefully tested during the production process. The assembly is accurate in every detail. The final testing comprise a special procedure where each single speaker is measured and small differences in level or coloration are corrected writing a dedicated Dsp correction file in the input board memory; thanks to this calibration process each single speaker perfectly match each others.

MYTHO

NEW SHAPE OF SOUND

The new Ayra Series of studio monitors are designed for nearfield applications, equally suited to your home or recording studio. Ayra Five, Ayra Six and Ayra Eight are the speaker models and the series is completed by the Ayra Ten Sub.



ULTIMATE PERFORMANCE

The Ayra Series is optimized to deliver the best sound for a variety of applications. Whether you are working with a nearfield mix at your home studio, you need a clear and loud sound for your multimedia gaming or simply need some good monitors for your personal computer.

THE SMOOTH LOOK

The sleek look of the Ayra studio monitors contrasts the dark front baffle with a white cone woofer; modern designed with a twist of the late 70´s.

THE FAMILY

The Ayra Series is a family of three models of studio monitors to match the required performance level. With the addiction of the Ayra sub you can seamlessly add more punch and weight to your monitoring set up.

POWERFUL SOUND

Ayra delivers a clean and powerful sound and is the "Next Step" to add high value in both sound and design to the recording and listening application.

TURN IT ON

Turn it on, the soft white light around the RCF logo will light up and you are ready to mix.

AYRA FIVE
ACTIVE PROFESSIONAL MONITOR

- True active 35 W + 20 W class AB design
- 55 Hz – 20.000 Hz frequency response
- Precision directivity tweeter waveguide
- Fully featured input board
- 5" composite fibreglass woofer
- 1" soft dome tweeter
- Reflection free front cabinet design
- Low distortion reflex port
- Lacquer painted medium density cabinet
- 8.5 Kg weight

p/n 13041005 (230V)
p/n 13041006 (115V)

- True active 50 W + 25 W class AB design
- 50 Hz – 20.000 Hz frequency response
- Precision directivity tweeter waveguide
- Fully featured input board
- 6" composite fibreglass woofer
- 1" soft dome tweeter
- Reflection free front cabinet design
- Low distortion reflex port
- Lacquer painted medium density cabinet
- 10.5 Kg weight

p/n 13041007 (230V)
p/n 13041008 (115V)

AYRA SIX
ACTIVE PROFESSIONAL MONITOR

ACCURATE MONITORING

Ayra works perfectly in any listening environments, from large or small production facilities to the home recording studio.

The Ayra gives you accurate monitoring and provides the engineer or producer with the right tool to make the best performance.

RCF comes with a strong pedigree in designing active speakers and the technology incorporated into the Ayra series draws on years of experience, allowing perfect integration of amplifiers with the loudspeaker components.

GOOD CONNECTIONS

Ayra easily connects to your mixer, computer or other audio source.

At the rear panel of the Ayra speaker there are XLR, Jack & RCA inputs, and input sensitivity control and a high frequency trim.

AYRA EIGHT
ACTIVE PROFESSIONAL MONITOR

- True active 80 W + 30 W class AB design
- 45 Hz – 20.000 Hz frequency response
- Precision directivity tweeter waveguide
- Fully featured input board
- 8" composite fibreglass woofer
- 1" soft dome tweeter
- Reflection free front cabinet design
- Low distortion reflex port
- Lacquer painted medium density cabinet
- 12.5 Kg weight

p/n 13041009 (230V)
p/n 13041010 (115V)

REFERENCE MONITOR

The Ayra Eight is the perfect choice for applications were accurate audio reproduction is crucial. The reference monitor is a perfect choice when working in recording, film, television and radio studios.

THE PERFECT BALANCE

Ayra gives a perfect balance to the mix. With a excellent dynamic range and a reproduction of audio that is easy to control, making it easy to obtain a brilliant mixing result.

- True active 200 W class AB design
- 35 Hz – 130 Hz frequency response
- Stereo input board, stereo x-over output
- Selectable low pass filter
- 10" composite fibreglass woofer
- Low distortion reflex port
- Lacquer painted medium density cabinet
- 18.5 Kg weight

p/n 13041013 (230V)
p/n 13041014 (115V)

AYRA TEN SUB
ACTIVE PROFESSIONAL SUBWOOFER

THE PERFECT MATCH

When you need more deep punch to your mix you can add the optional Ayra Ten subwoofer. It extends the frequency response of your system, whilst maintaining audio integraty it ensures the perfect mix.

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MYTHO 6

MYTHO 8

ACOUSTICAL SPECIFICATIONS

40 Hz - 20 kHz	Frequency Resp.	35 Hz - 20 kHz
114 dB	Max SPL	116 dB
110°	Horizontal coverage angle	110°
70°	Vertical coverage angle	70°
1", metal dome	Compression Driver	1", metal dome
6.5"ICC tech.	Woofer	8"ICC tech.

INPUT SECTION

combo xlr-jack	Input connector	combo xlr-jack
-6 dBu / + 6 dBu	Input sensitivity	-6 dBu / + 6 dBu

PROCESSOR SECTION

1900 Hz	Crossover frequencies	1800 Hz
thermal, excurs., rms	Protections	thermal, excurs., rms
soft limiter	Limiter	soft limiter
bass tilt, roll-off, trebele tilt, desktop, dsp controlled	Controls	bass tilt, roll-off, trebele tilt, desktop, dsp controlled

AMPLIFIER

100 Watt	High frequencies	100 Watt
200 Watt	Low frequencies	200 Watt
convection	Cooling	convection
vde	Connection	vde

PHISICAL SPECIFICATIONS

370 mm	Height	430 mm
265 mm	Width	310 mm
250 mm	Depth	300 mm
10.5 Kg	Weight	13 Kg
die cast aluminium	Cabinet	die cast aluminium
orientation adjustable stand	Hardware	orientation adjustable stand

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AYRA

	FIVE	SIX	EIGHT	TEN SUB
ACOUSTICAL SPECIFICATIONS				
Frequency Resp.	55 Hz - 20 kHz	50 Hz - 20 kHz	45 Hz - 20 kHz	35 Hz - 130 kHz
Max SPL	106 dB	108 dB	110 dB	113 dB
Horizontal coverage angle	110°	110°	110°	-
Vertical coverage angle	70°	110°	110°	-
Tweeter	1", 25 mm v.c.	1", 25 mm v.c.	1", 25 mm v.c.	-
Woofer	5"	6"	8"	10"
INPUT SECTION				
Input signal (Impedance)	10 KΩ	10 KΩ	10 KΩ	10 KΩ
Input connector	xlr, jack, rca	xlr, jack, rca	xlr, jack, rca	stereo xlr, jack, rca
Input sensitivity	-2 dBu	-2 dBu	-2 dBu	-2 dBu
PROCESSOR SECTION				
Crossover frequencies	2100 Hz	1900 Hz	1800 Hz	from 50 Hz to 120 Hz
Sensitivity control	+ ∞ dBU, 0 dBU	+ ∞ dBU, 0 dBU	+ ∞ dBU, 0 dBU	+ ∞ dBU, 0 dBU
Limiter	soft limiter	soft limiter	soft limiter	soft limiter
Controls	HF Adjust	HF Adjust	HF Adjust	Phase
AMPLIFIER				
Total Power	55 Watt	75 Watt	120 Watt	200 Watt
Low frequencies	35 Watt	50 Watt	80 Watt	200 Watt
High frequencies	20 Watt	25 Watt	30 Watt	-
Connection	vde	vde	vde	vde
PHISICAL SPECIFICATIONS				
Height	274 mm	320 mm	384 mm	384 mm
Width	186 mm	225 mm	266 mm	356 mm
Depth	266 mm	280 mm	328 mm	403 mm
Weight	6.2 Kg	8.2 Kg	11 Kg	16.8 Kg
Cabinet	Lacquer painted medium density cabinet			Lacquer painted medium density cabinet
Colour	Semi-matt Black	Semi-matt Black	Semi-matt Black	Semi-matt Black

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