AKG.HEARO.PROCESSOR

NEW!

HEARO 999 AUDIOSPHERE
DIGITAL SURROUND
PROCESSOR

The Personal Reference Monitor System

AKG®

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DIGITAL SURROUND PROCESSOR

- Headphones amplifier with D/A converter and room simulator
- New personal reference monitor system for stationary or mobile use
- Ideal for location recording or overdubbing, tracking, and mixing using headphones
- Digital processor, 44.1 kHz or 48 kHz, 24 bit AD/DA, 150 MIPS
- Digital and analog inputs
- IVA Individual Virtual Acoustics with seven ear matching functions
- Adjustable to user ear characteristics
- VMAx processor for surround sound from a single pair of speakers
- Dolby Digital and Dolby Pro-Logic
- Half-rack case
- State-of-the-art technology

Mobile or Stationary Headphones Monitoring

The HEARO 999 Audiosphere Digital Surround Processor from AKG is a new reference for headphones monitoring. Many sound engineers, producers, and musicians use the same monitors for years so they become their definitive reference for assessing a mix. The new HEARO 999 Processor allows you to take a familiar reference sound wherever you go so you can evaluate any mix meaningfully, no matter what monitors may be available on location. The beauty of this system is, you can always tell whether a mix actually meets your own standards or not because the HEARO 999 Processor gives you the same familiar audio wherever you are, anytime.

The HEARO 999 Processor is a sound investment, a future-oriented professional tool with the latest state-of-the-art technologies, IVA, VMAx, Dolby Pro-Logic, and Dolby Digital. Of course, it cannot, and was never intended to, replace conventional monitors. However, the HEARO 999 Processor

provides professional users with an additional pair of reference monitors that matches their own ear characteristics and against which they can cross-check any mix over headphones. Isn't it a familiar situation: you are impressed with the sound in one control room and badly disappointed by the same recording in another control room. You were itching to tweak the controls some more to get a better sound but finally you had to trust the local sound engineer because he was more familiar with the control room acoustics and his monitors.

At last, you can carry your own proven reference monitor system with you that enables you to decide on your own whether a mix sounds good enough or not. The HEARO 999 Processor is the perfect choice for professional mixing, editing, overdubbing, etc. in the studio or on location.

MODE

IVA:
Natural, 3-D (binaural) sound through your headphones

Direct:
Conventional stereo mode

VMAx:
Surround sound from a single pair of speakers

SURROUND

Auto:
The input detector automatically activates the appropriate decoder:
DOLBY DIGITAL for digital signals
DOLBY PRO-LOGIC for analog signals

Off:
Both surround decoders are deactivated for straight stereo.

Club, Hall, Stadium:
Acoustic simulations of small to large venues.

INPUT SECTION

Digital
Activates the digital audio inputs
(A rear panel switch toggles between optical and coaxial inputs.)

Dynamic
Toggles between the full dynamic range of Dolby Digital encoded signals and the dynamic range of conventional TV and video.
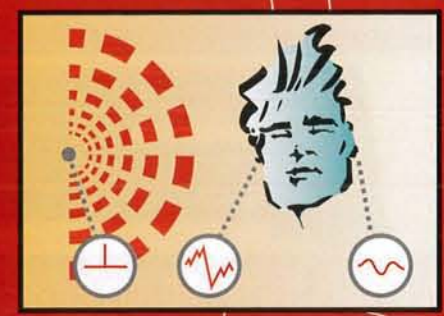
EARS

The way we perceive sound differs from person to person. The HEARO 999 Processor offers a choice of seven representative "ear curves" for you to create your own personal monitoring reference.
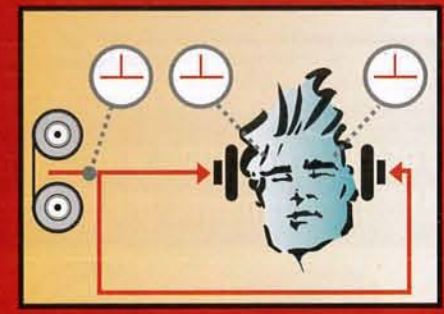
SOUND

Increases the apparent distance ("stereo spread") between two closely spaced loudspeakers such as computer speakers or near-field monitors. Each one of the four sound programs (NORM, MUSIC, VOICE, MOVIE) provides three speaker spreader settings for narrow (≤10°), medium (approx. 20°), or wide (<30°) actual base angles.
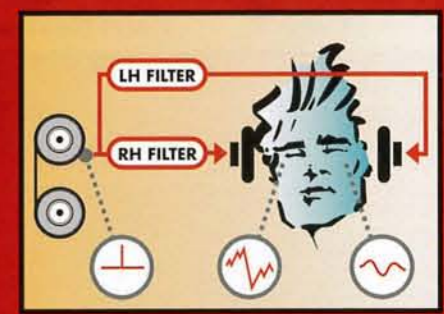
Why IVA-Technology?

One drawback of headphone listening is the psychoacoustic phenomenon of "inside localization": the orchestra seems to play inside your head rather than in the room.
AKG developed a binaural audio processing technique called IVA (Individual Virtual Acoustics) that uses so-called "ear matching functions" to model the way the head and pinnae change the arriving sound waves. Thus, the various sound sources will seem to be located outside your head even when you are using headphones.

Natural Hearing:
Due to the effect of the head and pinnae, sound waves arriving at one ear differ from those arriving at the other. Amplitude and phase differences create a sense of spatial hearing.

Listening through Headphones:
Amplitude and phase differences are eliminated. Sound sources are localized inside the head rather than in the room.

Listening through Headphones using the AKG HEARO 999 AUDIOSPHERE Digital Surround Processor in IVA Mode
The ear matching function modifies the audio signals at the ears to resemble the first diagram above. This restores natural, spatial hearing.

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SPECIFICATIONS

Audio inputs:	Analog: RCA
	Digital: 1x optical, 1x coaxial (selectable)
Outputs:	Analog audio outputs (processor controlled):
	left/right RCA jacks
	1x headphones output on 1/4" stereo jack
Digital signal processing:	24 bit; 150 MIPS
Digital/analog conversion:	20 bit
Sampling rate converter:	44.1 kHz, 48 kHz
Audio bandwidth:	20 Hz bis 25 kHz
Input LED:	-18 dB bis 0 dB: green,
	> 0 dB: red
Power supply:	12 V DC, 800 mA
Weight:	Approx. 550 g (19.4 oz.)
Optional accessory:	RMU 60 rack mount kit

Adjusting the HEARO 999 Processor to Your Hearing

The AKG website at

www.akg-acoustics.com/english/headphones/hearo999/ear-func.htm

provides two test signals in WAV and MP3 formats that you can download. Using the first signal, "Applause", make a shortlist of the most natural sounding ear curves. The second signal, "Acoustic Guitar Solo", is a pure mono signal for fine adjustment. From your shortlist, choose the settings where the acoustic guitar signal approximates a point source in the center. (For this test, it makes no difference whether you perceive the signal inside or outside your head.) The ear curve that provides the closest approximation to a point source is the one most congruent with the transfer function of your ears. Your HEARO 999 AUDIOSPHERE Processor is now optimally adjusted to your ears for natural spatial hearing over headphones.

For perfect sound with the HEARO 999 Processor, AKG recommends the following headphones:

K 1000*	K 240 DF Studio Monitor	K 240 Studio	K 141 Studio

* For optimum sound, we recommend to use an additional headphones amplifier.

In the Studio or on the Road

The HEARO 999 Processor delivers perfect headphones sound for both location recording and laying tracks, overdubbing, or mixing in the studio. The optional RMU 60 rack mount kit lets you install the HEARO 999 Processor securely in any mobile or studio 19" rack, where it requires very little space. So, your personal reference monitors go wherever you go.

Microphones · Headphones · Wireless Microphones · Wireless Headphones · Headsets · Electroacoustical Components

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