

AKG ACOUSTICS



hearo family



AKG ACOUSTICS

THE HEARO FAMILY

Innovative surround technology brings theater sound to your home

The HEARO Family wireless headphone systems from AKG are a convenient and elegant alternative to the usual loudspeaker-based surround systems.

Enjoying surround sound through headphones at home is easy because each HEARO Family headphone system incorporates a surround decoder – you don't need any other special equipment. Just connect the HEARO Family system to any stereo source including TV sets, hi-fi or video systems, DVD players, game consoles, or even a PC and enjoy a fabulous sounding surround system with up to eight virtual loudspeakers in your own home without the clutter of a room full of loudspeakers. The beauty of the

system is that the signals are transmitted by a radio frequencies, saving you the trouble of wiring a complex loudspeaker setup. Radio signals penetrate walls and ceilings so you can move around your house or garden while listening.

The HEARO 999 AUDIOSPHERE II and HEARO 888 DIGITAL use digital transmission for optimum signal quality and an even wider dynamic range.

The XXL speaker capsule using the patented Varimotion diaphragm made in Vienna under strictest quality control and delivers the same powerful surround sound as you would get in a theater. IVA processing

developed by AKG brings 3-D sound to headphones, equivalent to listening to loudspeakers distributed around the room. The result is a dramatic sense of envelopment.

The latest development in the line is the HEARO PLAYER, a software plug-in for the Windows Media® Player 9 Series that uses the latest computer technologies. HEARO PLAYER works with all sound cards and with any headphone so you can use it on your PC at home or on a notebook computer when traveling. Test it at www.akg.com/hearoplayer and find out why AKG has been a leading audio manufacturer for more than fifty years.

The HEARO Family



**HEARO 999
AUDIOSPHERE II**

- Dolby Digital and Dolby Surround Pro-Logic decoders, IVA, and VMAx.
- Digital radio link with mit digital antenna diversity receiver and external swiveling transmitting antenna.
- Transmitter with integrated amplifier for use with hard-wired headphones.
- Six selectable ear-matching curves.
- Hi-fi headphones with XXL speakers.
- Digital inputs.
- Balance control on headphones.



**HEARO 999
AUDIOSPHERE
DIGITAL PROCESSOR**

- Headphone amplifier with D/A converter and room simulator.
- Dolby Digital and Dolby Surround Pro-Logic decoders, IVA, and VMAx.
- Six selectable ear-matching curves.
- Digital inputs.



HEARO 888 DIGITAL
Available from spring 2004

- Dolby Surround Pro-Logic and LOGIC7 decoders, IVA.
- Digital radio link with digital antenna diversity receiver.
- Hi-fi headphones with XXL speakers.
- Three selectable sound presets.
- Memory card extension for loading personal ear matching curves.
- Balance control on headphones.
- Approx. 5 hours battery life; 2-hour quick charger.



**HEARO 777
QUADRA DELUXE**

- Dolby Surround Pro-Logic and LOGIC7 decoders, IVA.
- Three-channel PLL synthesizer for reliable reception.
- Auto-tuning function.
- AGC (Automatic Gain Control).
- Hi-fi headphones with XXL speakers.
- Approx. 20 hours battery life.
- 100 m (330 ft.) max. range.



HEARO PLAYER

- Software plug-in for Windows Media® Player 9 Series.
- LOGIC7 decoder and IVA.
- Five selectable sound presets.
- Automatic or manual IVA processing level adjustment to available computing power.
- Available for downloading from www.akg.com/hearoplayer as FREE demo or moderately priced full version.

EXPERIENCE THEATER SOUND AT HOME!

11.12.01 **Frankfurter Allgemeine**

"...a perfect success – a complete, portable home theater that is worth every Euro."

Test winner 1/02



TEST **VIDEO**

8/02

"...TVA LOGIC7' generates soundscapes with eight virtual sound sources from any mono or stereo program."

Home Cinema **TEST** 3/02

"Lean back and enjoy... first-class."

TEST **DVD MAGAZIN**

3/02

"future-oriented, cost-efficient alternative to loudspeaker systems..."

12/01 **"Ingenious."**



20.12.01 **FOCUS MONEY**

"...generates a brilliant 3-D sound – makes you feel as if you were at the movies or in a concert hall."

15.-28.12.01 **TV-TODAY**

"Powerful home theater sound..."

TEST **audiovision**

2/02

"...delivered a powerful sound with fascinating 3-D sound effects..."

DVD & Surround TEST 1/03



Price/performance: excellent

AKG ACOUSTICS

THE FASCINATION OF SURROUND

From the phonograph to the DVD – the story of 3-D sound

1881: The beginning

Four years after Thomas A. Edison had his phonograph patented, Clément Adler in Paris discovers the principle of stereophony by chance. Actual stereo recording and reproduction, however, are still decades away.

1931: The discovery of stereo

Alan Blumlein writes a detailed thesis about the theory of stereo and patents his stereo technique. Stereo recordings, however, are not yet available to the general public.

1942: Stereo recording

Before the first stereo records are released, Helmut Kruger from Germany successfully makes stereo recordings on magnetic tape.

1965: Dolby – the first noise reduction system

Dolby Systems launches the first noise reduction system that dramatically enhances the quality of magnetic tape recordings.

1972: Quadraphonic, the pre-cursor of surround

Quadraphonic signals for four loudspeakers arranged in a square are used for commercial recordings for the first time. This direct precursor

of today's surround technology never sells because it is too expensive and prerecorded program material is rare.

1985: Surround sound for the movies

After the digital age had finally begun in the music industry with the introduction of the CD in 1981, Dolby Laboratories develops the Spectral Recording System for movie theaters that provides a kind of three-dimensional imaging that had never been heard before.

1990: Surround sound at home

As consumer electronics and high-performance microprocessors develop rapidly, Dolby Laboratories presents the first five-channel surround processor.

1992: The revolution – IVA (Individual Virtual Acoustics) processing

With the BAP 1000 sound processor, AKG first presented the specifically developed, patented IVA system for the spatial imaging of sound sources through headphones.

1995: Surround sound via headphones

AKG launches the world's first surround headphones, the K 290 Surround.

1997: The triumph of the DVD

The DVD is unveiled as the latest digital audio/video medium. At the same time, the current digital 5.1 and 7.1 surround formats are developed. Lexicon launches the first LOGIC7 decoder.

1998: The first wireless surround headphones

The HEARO 777 from AKG is the first wireless headphone system with an integrated Dolby Surround Pro-Logic decoder and IVA processor.

1999: Digital surround via headphones

The audio DVD 1.0 format ensures worldwide compatibility of DVDs. At the same time, AKG launches the HEARO 888 TITAN, the first Dolby Surround Pro-Logic headphone system with a digital radio link, and the HEARO 999 AUDIOSPHERE, the first Dolby Digital headphone system (also with a digital radio link).

2001: First LOGIC7 headphone system

The HEARO 777 QUADRA from AKG is the first wireless headphone system that incorporates Dolby Surround Pro-Logic and a LOGIC7 decoder as well.

2003: The revolution goes on...



BAP 1000 and K 1000

Sound engineers worldwide prefer the BAP 1000 audio processor and K 1000 high-end headphones for mixing with headphones.



K 290 Surround

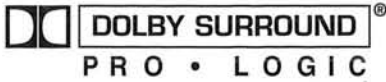
A special arrangement of two speakers in each earphone allows the K 290 Surround to generate authentic surround sound without electronic circuitry.



HEARO 777

The first HEARO Family model revolutionized the headphone market. To this day, AKG has been the world's leading manufacturer of wireless surround headphones.

AKG ACOUSTICS



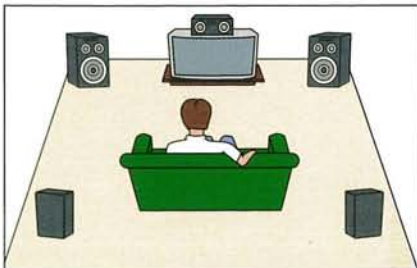
DOLBY SURROUND PRO-LOGIC

Unlike Dolby Digital where all channels are recorded and read separately, the Dolby Surround Pro-Logic format encodes and decodes surround signals in a "piggyback" matrixed fashion on the two stereo tracks. In addition, typical Dolby Surround Pro-Logic systems don't have a separate subwoofer channel.

Movie soundtracks are usually mixed down to four channels. Left and Right are the same two channels used for hi-fi stereo. The third channel is the Center channel projected from above or below the video screen. The fourth channel is called "surround" or "rear" and is usually projected by two loudspeakers placed behind the listeners. These four channels are encoded by a special circuit and recorded in "piggyback" fashion on the two stereo tracks. This allows the signal to be reproduced in mono, stereo, or (using a decoder) through four separate channels. For surround reproduction, the signal needs to be decoded. This is the job of the Dolby Surround decoder. Therefore, many types of media such as VHS video or radio, and many DVDs, too, include Dolby Pro-Logic Surround signals.

Available in:

- HEARO 777 QUADRA DELUXE
- HEARO 888 DIGITAL
- HEARO 999 AUDIOSPHERE II



Example of a Dolby Surround Pro-Logic setup

The surround or rear channel is usually projected by two loudspeakers.



DOLBY DIGITAL

The digital multi-channel format of Dolby Laboratories, Inc. used in advanced movie theater equipment is the most widespread digital surround standard for DVDs, laser discs, and digital TV. The distinguishing feature of Dolby Digital is that all tracks (five audio tracks plus one subwoofer track) are stored separately in digital form. Each loudspeaker is fed specific audio information for optimum spatial imaging. The surround signal is made up as follows:

1+2: Left and right front channels

These channels reproduce the main ingredients of the program including music and ambience.

3: Center channel

The center channel is reserved mainly for voices.

4+5: Left and right rear surround channels
These channels reproduce sounds intended to originate behind the listening position.

6: Subwoofer channel

The subwoofer only reproduces low frequencies at a level high enough to make you feel the sonic fundamentals.

Available in:

- HEARO 999 AUDIOSPHERE II



Example of a Dolby Digital setup

The subwoofer position is uncritical because low frequencies cannot be localized due to their long wavelengths.



LOGIC7

Until now, this latest development by the innovative engineers at LEXICON was only used in high-end processors for high-quality home theater systems. Now, the unique advantages of LOGIC7 decoding are available for headphones for the first time.

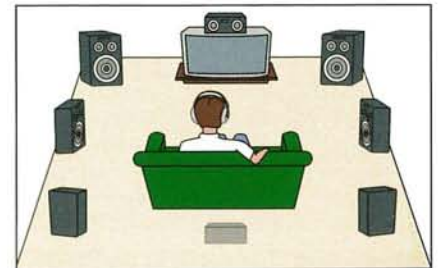
The LOGIC7 decoder automatically identifies the input signal as mono, stereo, or surround encoded and processes the signals appropriately.

The LOGIC7 decoder uses the localization cues contained in stereo signals to generate a 3-D sound that conveys to the listener a sense of envelopment in the sound rather than standing in front of a pair of loudspeakers. Surround encoded signals are reproduced exactly as defined in the mix.

Along with the standard 5.1 surround format, LOGIC7 provides left and right side surround channels, for a total of seven loudspeaker channels plus one subwoofer channel. In addition, another surround center channel is added in the headphone mode. In conjunction with IVA processing, LOGIC7 provides its full performance level with eight virtual loudspeakers. The result is far more natural and accurate imaging.

Available in:

- HEARO 777 QUADRA DELUXE
- HEARO 888 DIGITAL



Example of a LOGIC7 setup

The center surround channel is available on headphones only.

AKG ACOUSTICS



IVA (Individual Virtual Acoustics) processing

Since we only have two ears, humans localize sound sources in our environment with "binaural hearing". Sound waves from a given source arrive at one ear earlier than they do at the other, and they "look" different, too.

Fig. A: Amplitude and phase shifts allow us to localize a sound source in space (three-dimensional perception of sound).

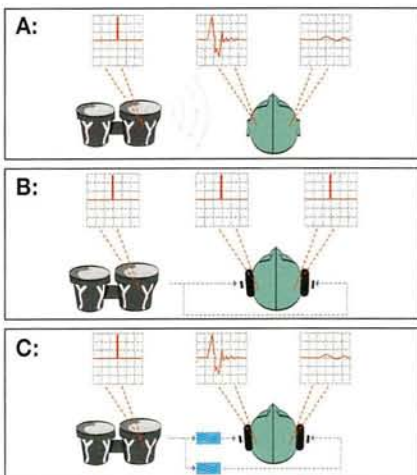
Fig. B: Headphones usually eliminate these important amplitude and phase shifts. Sound sources are perceived as being localized inside the head rather than in the room.

Fig. C: IVA processing developed by AKG adds to a stereo signal the amplitude and phase shifts that are necessary to create the same sense of natural sound as in binaural hearing.

In short, IVA processing provides a perfectly natural stereo and multi-channel theater sound found in modern movie theaters through headphones at home.

Available in:

- HEARO 777 QUADRA DELUXE
- HEARO 888 DIGITAL
- HEARO 999 AUDIOSPHERE II



The benefits of IVA

The instrument does not seem to play inside the head but in the room, as in a natural listening situation.

Ear matching curves

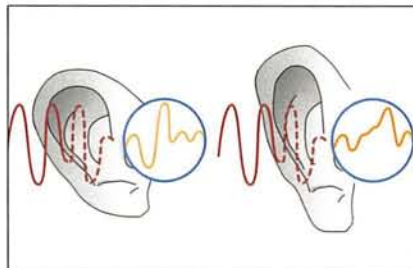
Every person perceives sound in a different way. A sound first arrives at the pinnae on your ears that direct the sound waves into the auditory tract. Depending on the shape and size of the pinnae, ears and head, some frequencies are boosted and others attenuated. Therefore, every person has a different subjective impression of the same sound.

When you use headphones, most of the sound is "channeled" right into your auditory tract without first being modified by the pinnae and head. Therefore, what you hear may sound unnatural.

AKG performed numerous measurements to determine the most frequent types of subjective modifications and created electronic models (ear matching curves) of these changes. You can select from various ear matching curves to find the setting that sounds the most natural to you. This technology in conjunction with IVA processing provides an incomparably natural, spacious sound.

Available in:

- HEARO 999 AUDIOSPHERE II
- HEARO 888 DIGITAL (optional memory card extension)



The benefits of ear matching curves

Selectable ear matching curves model the way your pinnae and head modify the incoming sound.

VMA_x

VMA_x

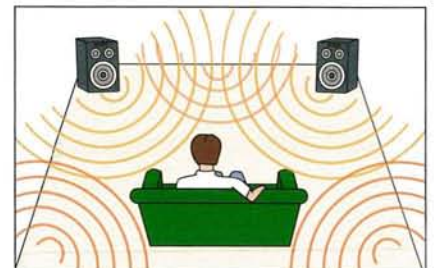
Some listening rooms don't permit the required number of loudspeakers to be set up or placed at the correct positions for true surround sound. In most cases, however, it is easy to place a stereo pair at the preferred positions.

VMA_x simulates both the center channel and a rear effects channel to generate accurate surround sound from only two loudspeakers.

VMA_x introduces specific phase shifts that cause the surround information to be appropriately delayed and reflected by the wall behind the listener to simulate a separate loudspeaker.

Available in:

- HEARO 999 AUDIOSPHERE II



The benefits of VMA_x

A simulated center channel and reflected surround cues create the impression of a real surround system.

AKG ACOUSTICS

NEW

HEARO 999 AUDIOSPHERE II

Fully digital wireless surround headphone system with Dolby Digital decoder



- Dolby Digital and Dolby Surround Pro-Logic decoders, IVA, and VMAx.
- Digital radio link using digital antenna diversity receiver and external swiveling transmitting antenna.
- Six selectable ear matching curves.
- Hi-fi headphones with XXL speakers.
- Digital inputs.
- Balance control on headphones.
- Approx. 5 hours battery life; 2-hour quick charging system.
- Max. range: 50 m (165 ft.).
- Integrated amplifier for hardwire headphones.

The original HEARO 999 AUDIOSPHERE was praised enthusiastically by the audio press ("... world's best headphones...", FHM 1/2000), and the new version called the **HEARO 999 AUDIOSPHERE II** has been further improved.

The headphones use XXL speakers with patented Varimotion diaphragms (Austrian Patent no. 403.751, US Patent no. 6,185,809) for a **dramatically improved sound** with even higher accuracy at high volume levels. The result is a clearer high and mid range along with more powerful bass.

Also improved was the **digital UHF radio link**. A **swiveling external antenna** on the transmitter and a digital antenna diversity receiver maximize signal quality and minimize dropouts. All signal processing is performed in the digital domain to maintain the full dynamic range from the input to your ears. The sound quality of the headphones is equivalent to that of a high-end hardwired model. The self-adjusting **headband made of genuine leather** looks great and is highly comfortable as it gently and automatically conforms to every head.

AKG ACOUSTICS

NEW

MODE

- **IVA**
Natural, spatial (binaural) sound with headphones.
- **Direct**
Stereo mode.
- **VMAx**
VMAx processing delivers surround sound from a single pair of stereo loudspeakers.

SURROUND

- **Auto**
The decoder automatically selects the required processing mode: DOLBY DIGITAL for digital input signals Dolby Surround PRO LOGIC for analog input signals
- **Off**
The surround decoder is deactivated and you are listening to pure stereo. In stereo mode, you can also select one of three room simulations: CLUB, HALL, and STADIUM.

EARS

Every person perceives sound in a different way.

You can select from one standard setting and six different ear matching curves to find the setting that sounds the most natural to you.



PHONES

- **Headphone amplifier**
for use with hardwired headphones.

INPUT

- **Digital:**
Activates the digital audio input.
- **Dynamic:**
Dolby Digital provides the full dynamic range you'd hear in a real theater. The DYNAMIC switch lets you reduce the dynamic range to that of standard TV sets or VCRs.

SOUND

Whether you are watching a video, listening to music, or looking for perfect voice reproduction, SOUND allows you to match the timbre of the reproduced sound to the type of programming. Each of the four basic modes NORM, MUSIC, VOICE, and MOVIE provides three timbre settings.



Ultimate accuracy and balance control
The sound quality is equivalent to that of high quality hardwired headphones. The balance control on the headset allows you to adjust the volume ratio between the left and right channels.



Minimum-noise digital radio link
Digital transmission ensures virtually noise-free reception, a digital antenna diversity receiver and swiveling external transmitting antenna provide highly reliable reception and minimize dropouts.



HEARO 999 AUDIOSPHERE DIGITAL PROCESSOR
Headphone amplifier and surround processor for use with hardwired headphones (without radio transmitter and headphones).

AKG ACOUSTICS

NEW

HEARO 888 DIGITAL

Wireless eight-channel surround headphone system with digital radio link



- Dolby Surround Pro-Logic and LOGIC7 surround decoders, IVA.
- Digital radio link with digital antenna diversity receiver.
- Hi-fi headphones with XXL speakers.
- Digital input.
- Three selectable sound presets: Norm/Music/Movie.
- Memory card expansion slot for loading personal ear matching curves.
- Balance control on headphones.
- Approx. 5 hours battery life; 2-hour quick charging system.
- 3-in-1 transmitter doubles as storage cradle and charger for headphones.
- Max. range: 50 m (165 ft.).

The successor of the HEARO 888 TITAN takes a new approach to both styling and technology. While it maintains the **Dolby Surround Pro-Logic decoder** and **AKG IVA processing**, the **digital UHF radio link** now uses a digital antenna diversity receiver for even higher **reliability of reception**. In addition, the system provides three new sound presets.

The headphones use XXL speakers with patented Varimotion diaphragms to deliver an even more accurate sound at high volume levels. These speakers in conjunction with the digital radio link provide the same performance as high-end hardwired headphones. A **balance control** on the headphones let you fine tune the stereo or surround sound.

Other new features include a **LOGIC7 decoder** simulating up to eight loudspeakers for surround reproduction, and a **digital input** for optimum utilization of the **full dynamic range** of digital media. A provision for connecting a memory card allows you to load **personal ear matching curves** for optimally matching the sound to the characteristics of your ears.

AKG ACOUSTICS

NEW



MODE

IVA Pro Logic: The decoder will generate up to four virtual loudspeaker channels from Pro-Logic input signals.

IVA LOGIC7: Automatic decoder for mono, stereo, Dolby Surround Pro-Logic, LOGIC7, and all current surround formats. Simulates up to eight loudspeaker channels.

IVA STEREO: Loudspeaker simulation for natural, spacious stereo sound.

STEREO: Conventional stereo sound.

FREQ

Short push selects one of three carrier frequencies, long push analog or digital input.

DISPLAY

Switches the display backlighting on and off.

ON

Switches the HEARO 888 DIGITAL on and off.

CHARGE

Charging status light.

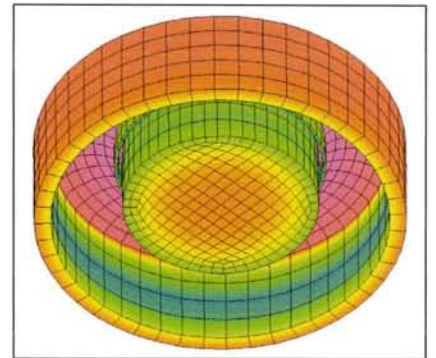
LEVEL

Input signal level meter.

SOUND PRESETS

NORM, MOVIE, MUSIC, plus CARD for ear matching curves on memory card.

The Varimotion XXL transducers deliver improved accuracy at high volume levels. The result is a cleaner high end and mid range with more powerful bass. Computer-optimized manufacturing processes safeguard the consistently excellent sound of AKG HEARO Family surround headphones.



Always ready

The included high-capacity rechargeable batteries will power the headphone for about five hours and the quick-charging function energizes them for use in only two hours.



Headphones with exceptionally accurate sound

The XXL speakers with patented Varimotion diaphragms work together with the digital radio link to provide a sound that is equivalent to that of high-end hardwired headphones.



Balance control on the headphones

The balance control on the headphones enables you to manually adjust the volume between the left and right channels for a consistent sound.

AKG ACOUSTICS

HEARO 777 QUADRA DELUXE

Wireless eight-channel surround headphone system



- Dolby Surround Pro-Logic and LOGIC7 surround decoders, IVA.
- Three-channel PLL synthesizer for reliable reception.
- Auto-tuning function.
- AGC (Automatic Gain Control).
- Hi-fi headphones with XXL speakers.
- Approx. 20 hours battery life.
- 3-in-1 transmitter doubles as charger and storage cradle for the headphones.
- 100 m (330 ft.) max. range.

The HEARO 777 QUADRA DELUXE establishes a new standard in styling and technology. The classic shape of the transmitter is functional and fits in harmoniously with any living room. The batteries inside the headphones with dedicated charging contacts will be charged automatically when you place the headphones on the transmitter/charger. The large headphones provide excellent wearing comfort and the XXL speakers deliver **perfect hi-fi quality sound**.

The HEARO 777 QUADRA DELUXE is a complete, self-contained surround system. A **Dolby Surround Pro-Logic decoder**, patented **IVA processing** from AKG for incomparably authentic binaural sound, and an exclusive **LOGIC7 decoder** for simulating up to eight surround loudspeakers make the HEARO 777 QUADRA DELUXE a high quality, compact alternative to expensive, bulky surround loudspeaker systems.

Finally, the radio link provides perfect sound and mobility within a range of up to **100 m (330 ft.)**. Battery life is up to **20 hours**.

AKG ACOUSTICS

NEW

HEARO PLAYER

Virtual eight-channel software plug-in for Windows Media® Player 9 Series



- Software plug-in for Windows Media® Player 9 Series
- LOGIC7 decoder and IVA.
- Five selectable sound presets.
- Automatic or manual IVA processing level adjustment to available computing power.
- Compatible with all sound cards and headphones (AKG K 101, AKG K 301 XTRA recommended).
- Intuitive, high-end equipment type user interface.
- For system requirements refer to Specifications.

Looking for surround sound from headphones from your PC without expensive peripherals or complicated modifications? The answer is the AKG HEARO PLAYER based on the same software used in the highly praised HEARO Family wireless surround headphone systems. The secret behind this miracle are two technologies: IVA processing developed by AKG provides a sound that does not play inside the head as it would with straight headphone reproduction, but actually seems to come from loudspeakers placed around your listening room. The LOGIC7 decoder automatically identifies the input signal format, monitors it constantly, and simulates up to eight loudspeakers distributed around the room. It generates this kind of 3-D sound from almost every input signal format from stereo to the latest surround standard.

To avoid overburdening your PC with its need for processing power, the IVA surround processing level can be adjusted manually or automatically to optimize the processing power of your computer. Selectable presets such as MOVIE and JAZZ provide timbres for a more realistic sound. The HEARO PLAYER is a real bargain for those who are looking for a way to enjoy surround sound from their PC at home or notebook computer when traveling but do not want to invest in extra hardware or throw away their favorite headphones.

Available for downloading from www.ake.com/hearoplayer as a free demo or as the moderately-priced full version.

AKG ACOUSTICS

Specifications

HEARO 999 AUDIOSPHERE II

NEW

Headphones:	semi-open, dynamic design
Max. sound pressure level:	approx. 104 dB SPL
Audio bandwidth:	18 Hz to 24 kHz
Carrier frequency:	864 MHz (LPD band)
RF output:	10 mW ERP (Equivalent Radiated Power)
THD:	<1%
Range:	approx. 50 m (165 ft.)*
Transmission system:	minimum-delay ACS encoding and digital antenna diversity receiver
Transmitter AD/DA converters:	20-bit, 44.1/48 kHz
Receiver D/A converter:	18-bit, 44.1/48 kHz
Audio inputs:	analog: RCA, digital: 1 x optical, 1 x coaxial (selectable)
Audio outputs:	L/R RCA jacks, 1 x 1/4" TRS jack for hardwire headphones
Digital signal processing:	24-bit, 150 MIPS
Batteries:	2 x 1.2 V, 600 mAh AAA size NiMH rechargeable batteries
Battery life:	approx. 5 hours (NiMH batteries)
Weight:	headphones: 350 g (12.4 oz.); transmitter: 590 g (1.3 lbs.)
Transmitter power supply:	12 VDC/800 mA AC adapter
Connecting cables supplied:	RCA to RCA stereo cable, optical digital cable, RCA to mini jack stereo cable (1.5 m / 5 ft. long)
Stereo adapter:	mini to 1/4" jack
Additional functions:	VMAx; Dolby Surround Pro-Logic and Dolby Digital decoders; digital radio link using digital antenna diversity receiver; ear matching curves; external swiveling transmitting antenna; IVA processing

HEARO 999 AUDIOSPHERE DIGITAL PROCESSOR

Audio bandwidth:	entire audible frequency range
AD/DA converters:	20-bit, 44.1/48 kHz
Audio inputs:	analog: RCA, digital: 1 x optical, 1 x coaxial (selectable)
Audio outputs:	L/R RCA jacks, 1 x 1/4" TRS jack for hardwire headphones
Digital signal processing:	24-bit, 150 MIPS
Weight:	550 g (1.2 lbs.)
Transmitter power supply:	12 VDC/800 mA AC adapter
Connecting cables:	RCA to RCA stereo cable, RCA to mini jack stereo cable, optical digital cable (1.5 m / 5 ft. long)
Stereo adapter:	mini to 1/4" jack
Additional functions:	Dolby Surround Pro-Logic and Dolby Digital decoders; IVA processing; VMAx; ear matching curves

HEARO 777 QUADRA DELUXE

Headphones:	semi-open, dynamic design
Max. sound pressure level:	approx. 125 dB SPL
Audio bandwidth:	18 Hz to 24 kHz
Carrier frequency:	864 MHz (LPD band)
RF output:	10 mW ERP (Equivalent Radiated Power)
THD:	<1%
Range:	approx. 100 m (330 ft.)*
Batteries:	2 x 1.2 V, 600 mAh AAA size NiMH rechargeable batteries
Battery life:	approx. 20 hours (NiMH batteries)
Weight:	headphones: 320 g (11.3 oz.); transmitter: 1300 g (2.9 lbs.)
Transmitter power supply:	9 VDC/500 mA AC adapter
Connecting cables supplied:	RCA to RCA stereo cable, RCA to mini jack stereo cable (1.5 m / 5 ft. long)
Stereo adapter:	mini to 1/4" jack
Additional functions:	Auto-tuning function, AGC (Automatic Gain Control)

* under ideal transmission conditions (free-field)

HEARO 888 DIGITAL

NEW

Headphones:	semi-open, dynamic design
Max. sound pressure level:	approx. 104 dB SPL
Audio bandwidth:	18 Hz to 24 kHz
Carrier frequency:	864 MHz (LPD band)
RF output:	10 mW ERP (Equivalent Radiated Power)
THD:	<1%
Range:	approx. 50 m (165 ft.)*
Transmission system:	minimum-delay ACS encoding and digital antenna diversity receiver
Transmitter AD/DA converters:	24-bit, 44.1 kHz
Receiver D/A converter:	18-bit, 44.1 kHz
Audio inputs:	analog: CINCH, digital: 1x optical, 1x coaxial
Digital signal processing:	24-bit, 200 MIPS
Batteries:	2 x 1.2 V, 600 mAh AAA size NiMH rechargeable batteries
Battery life:	approx. 5 hours (NiMH batteries)
Weight:	headphones: 350 g (12.4 oz.); transmitter: 560 g (1.2 lbs.)
Transmitter power supply:	9 VDC/500 mA AC adapter
Connecting cables supplied:	RCA to RCA stereo cable, coaxial digital cable, RCA to mini jack stereo cable (1.5 m / 5 ft. long)
Stereo adapter:	mini to 1/4" jack
Additional functions:	digital radio link using digital antenna diversity receiver; Dolby Surround Pro-Logic and Dolby Digital decoders; IVA processing; memory card extension (for loading personal ear matching curves); sound presets

Available from spring 2004

HEARO PLAYER

NEW

FUNCTIONS	LOGIC7 decoder, IVA processing, 5 sound presets, automatic IVA processing level adjustment to computing power
SYSTEM REQUIREMENTS	
Operating system:	Microsoft Windows® 98 Second Edition, Windows 2000, Windows Millennium Edition, Windows XP Home Edition, Windows XP Professional
Media player:	Windows Media® Player 9 Series
Processor:	450 MHz processor or better, e.g., Intel Pentium or Advanced Micro Devices (AMD) processor 1600 MHz processor or better recommended
RAM:	128 MB Ram min., 256 MB RAM recommended
Sound board:	16-bit sound board or better
Graphics board and monitor:	Super VGA (800 x 600) or better
Audio output device:	headphones - AKG K 101, K 301 XTRA recommended
Download:	www.akg.com/hearoplayer

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