

# AKG ACOUSTICS

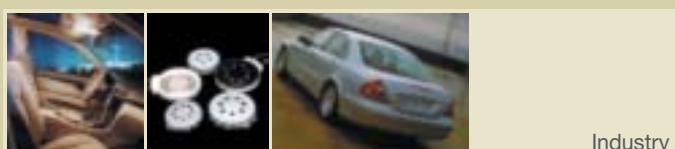
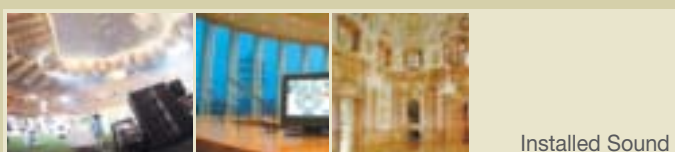
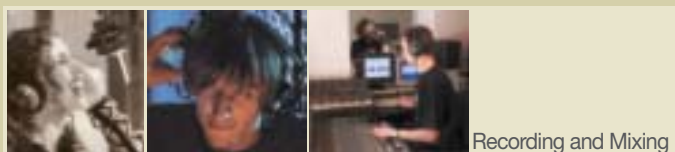
## *headphones* a dream of sound



surround  
wireless – tv – hi-fi



## The world listens to AKG.



In the summer of 2002, nearly one billion people were listening to AKG. Maybe you were one of them. Remember the opening ceremony of the soccer world cup in Seoul? The sound system there used the latest wireless technology from AKG.

One reason was that AKG is one of the world's leading manufacturers of headphones and microphones plus AKG audio equipment has been in use in countless concert halls, conference rooms, broadcast and recording studios, theaters, and rock concert venues all over the world.

A lot of mobile phones and a growing number of cars including the new Maybach ultra-luxury sedan from DaimlerChrysler use AKG technology.

So, whether you own a Maybach or not, treat your ears to tailor-made AKG sound and experience the finest reproduction available.

## Phones for every head.

Talking about headphones, you go for the very best.  
So do we.

Although high quality components are a prerequisite for any high quality product including headphones, it takes more than that to make an excellent product, right?

In the case of AKG, the difference is more than 55 years of experience and know-how, painstaking attention to the smallest detail, and our constant endeavors to create better products that lead to future-oriented headphone technologies.

We do not follow short-lived trends, but strive to develop true audio innovations. Countless awards and more than 1,400 international patent applications attest that this has been a good strategy. The important thing for us is to make sure you will be satisfied with our products and services for many years.

Curious?

Why don't you try our headphones and compare them against other models. I am sure you will find that AKG headphones do not just reproduce audio but make you enjoy what you hear. That's the difference.



Dr. Hugo Lenhard-Backhaus  
*CEO, AKG Acoustics GmbH, Vienna*



1947

1949

## AKG history

1953

"Pioneering spirit" best characterizes the ambitious work of AKG founders Dr. Rudolf Görike and Ing. Ernst Pless. After the war, people went to the movies seeking distraction from the stress of post-war life, so Rudolf Görike built movie projectors and loudspeakers, while Ernst Pless used his rucksack and bicycle to deliver the goods to constantly growing numbers of customers. Their very first customer was unable to pay in cash so he settled the bill in food, fresh from the black market.

When AKG was established in 1947, the company headquarters were located in a basement in the suburbs of Vienna. Before long, many AKG microphones were in use, mainly at radio stations, in theaters, on small stages, and at jazz clubs.



In the early 1950s, the two founders of AKG made their business breakthrough with completely new technologies. The microphones of that era had a strangely shrill and

hollow sound, and AKG technology added warmth and fullness to microphone's sound.

1967

In 1953, the first AKG dynamic microphone in the world became an international success, and the first large-diaphragm condenser microphone with remotely selectable polar patterns set new standards for professional microphones. Almost every major radio or recording studio including BBC London, one of the first buyers, used these microphones.

1969

The following years saw numerous new developments. Many innovations of that period are still in use today. The K 10 headphones used by the European Parliament are but one example.

AKG research engineers have always loved exotic challenges. One of those was a real-life test of hydrophones for the Austrian deep-sea scientist Hans



Hass and AKG designers were happy to spend days swimming and diving at the "Diana Bad" indoor pool in downtown Vienna that was very popular in those days. The AKG team also fulfilled the very special wishes of Herbert von Karajan. They had to

hide all the microphones at the first post-war Salzburg Festival because the maestro had decreed that the audio equipment must be totally invisible to the audience.

1978

The company expanded and patents were applied for in rapid succession. AKG supplied microphones to major tape recorder manufacturers including Philips, Grundig, Uher, Loewe and others. Portable reverberation units created a new market in the 1960s and 1970s. Telephone transducers soon became a rapidly growing product line. This period also saw the advent of digital technology and AKG made its successful "digital debut" at the 1980 Olympic Games in Moscow.

1987

As early as 1974, AKG built the first wireless headphones. At that time, consumers were skeptical and many felt the new technology was too complicated. In the late 1980s, AKG launched the K 1000 headphones that were a dramatic improvement over all earlier attempts at creating a natural, binaural headphone sound. The audio community was full of praise. The new results of psychoacoustic research were presented in exhibitions at the Deutsches Museum in Munich, the Kunst Museum of Bonn, and even used by the "Audimir" space flight project. The crew on board the "MIR" performed several tests to examine the meaning of sound source localization for the humans in space.

1991

1996

The new AKG wireless microphone systems launched in 1996 used a new, revolutionary technology that was widely acclaimed in the marketplace. Big name pop artists such as Rod Stewart, Peter Gabriel, and Simply Red used the systems on their tours and AKG became the preferred brand for many other famous musicians.

2001

At the turn of the millennium, AKG engineers came up with the latest generation of the HEARO Family, a new line of wireless headphone systems using the latest surround technology.

2003

And the story goes on ...

2004

# TABLE OF CONTENTS

## Surround

FOR TV, HOME THEATER, HI-FI	FOR HI-FI PURISTS	PREMIUM AUDIO	SOFTWARE	Pages 6-15
<i>hearo 777</i> QUADRA DELUXE	<i>hearo 888</i> DIGITAL <b>NEW</b>	<i>hearo 999</i> AUDIOSPHERE II <b>NEW</b>	<i>hearo player</i> <b>NEW</b>	

## Wireless

BASIC	DESIGNER SYSTEMS	Pages 16-19
<i>k 311 ir</i>	<i>k 105 uhf</i>	<i>k 306 afc</i> <b>NEW</b> <i>k 406 afc</i> <b>NEW</b> <i>k 506 afc</i> <b>NEW</b>

## TV

HARDWIRE	WIRELESS	Pages 20-21
<i>k 71 tv</i> <b>NEW</b>	<i>balance k 122 ir</i> <b>NEW</b>	<i>balance k 216 afc</i> <b>NEW</b>

## Hi-fi

STUDIO	Pages 22-25
<i>k 171 studio</i> <b>NEW</b> <i>k 271 studio</i> <b>NEW</b> <i>k 141 monitor</i>	<i>k 141 studio</i> <b>NEW</b> <i>k 240 monitor</i> <i>k 240 studio</i> <b>NEW</b> <i>k 240 dfstudio monitor</i>
PORTABLE	PORTABLE

BASIC	ALLROUND	Pages 26-27
<i>k 44</i> <i>k 55</i> <i>k 66</i>	<i>k 71</i> <b>NEW</b> <i>k 101</i> <b>NEW</b> <i>k 301 xtra</i> <b>NEW</b>	
	PORTABLE	PORTABLE

HIGH-END	Pages 28-29
<i>k 501</i> <i>k 1000</i>	





## Specifications

Pages 30-31
-------------





AKG New Line

# THE HEARO FAMILY

<p><b>hearo</b> 777 QUADRA DELUXE <span style="float: right;">Pages 8-9</span></p>  <p>Wireless eight-channel surround headphone system for TV, home theater, hi-fi use</p>	<p><b>hearo</b> <span style="color: red; font-weight: bold;">NEW</span> 888 DIGITAL <span style="float: right;">Pages 10-11</span></p>  <p>Wireless eight-channel surround headphone system with digital radio link for use with high-end systems</p>	<p><b>hearo</b> <span style="color: red; font-weight: bold;">NEW</span> 999 AUDIOSPHERE II <span style="float: right;">Pages 12-13</span></p>  <p>Completely digital wireless headphone system with Dolby Digital decoder for audiophile individualists.</p>
<p>Patented IVA processing provides a natural, spatial sound through headphones.</p> 		
<p><b>Integrated Dolby Surround Pro-Logic and LOGIC7 surround decoders.</b></p> <ul style="list-style-type: none"> <li>• For TV/video/DVD/DVD(A)/Hi-fi/(SA)CD/PC/game consoles.</li> <li>• Selectable surround and stereo modes.</li> </ul>	<p><b>Integrated Dolby Surround Pro-Logic and LOGIC7 surround decoders</b></p> <ul style="list-style-type: none"> <li>• For TV/video/DVD/DVD(A)/Hi-fi/(SA)CD/PC/game consoles.</li> <li>• Accepts analog and digital input formats.</li> <li>• Selectable surround and stereo modes.</li> <li>• Three selectable sound presets: Norm/Music/Movie.</li> <li>• Memory card extension for loading personal ear matching curves.</li> </ul>	<p><b>Integrated Dolby Surround Pro-Logic and Dolby Digital decoders</b></p> <ul style="list-style-type: none"> <li>• For TV/video/DVD/DVD(A)/Hi-fi/(SA)CD/PC/game consoles.</li> <li>• Accepts analog and digital input formats.</li> <li>• Selectable surround and stereo modes. Stereo mode provides three room simulations.</li> <li>• Four selectable sound presets: Norm/Music/Movie/Voice.</li> <li>• Six selectable ear matching curves.</li> </ul>
<p><b>Analog radio link</b></p> <ul style="list-style-type: none"> <li>• Three-channel PLL UHF synthesizer tuner for reliable reception.</li> <li>• AGC for automatic matching to audio source output level.</li> <li>• Autotuning function.</li> </ul>	<p><b>Digital radio link</b></p> <ul style="list-style-type: none"> <li>• Minimum noise.</li> <li>• Digital antenna diversity receiver minimizes signal dropouts.</li> </ul>	<p><b>Digital radio link</b></p> <ul style="list-style-type: none"> <li>• Minimum noise.</li> <li>• Digital antenna diversity receiver and transmitter with external swiveling antenna minimize signal dropouts.</li> </ul>
<p><b>High quality headphones</b></p> <ul style="list-style-type: none"> <li>• Varimotion XXL speakers for extremely accurate response.</li> <li>• Sparkling sound even at high loudness.</li> </ul>	<p><b>High-end headphones</b></p> <ul style="list-style-type: none"> <li>• Same performance as high-end hardwire headphones.</li> <li>• XXL Varimotion speakers with computer optimized diaphragms for excellent response. Sparkling sound even at high loudness.</li> <li>• Balance control for left/right volume adjustment.</li> <li>• Quick-charging system (less than 2 hours).</li> </ul>	<p><b>High-end headphones</b></p> <ul style="list-style-type: none"> <li>• Same performance as high-end hardwire headphones.</li> <li>• XXL Varimotion speakers with computer optimized diaphragms for excellent response. Sparkling sound even at high loudness.</li> <li>• Balance control for left/right volume adjustment.</li> <li>• Quick-charging system (less than 2 hours).</li> </ul>

Available from spring 2004

<p><b>hearo player</b> <span style="color: red; font-weight: bold;">NEW</span> <span style="float: right;">Page 15</span></p>  <p>Software plug-in for Windows Media® Player 9 Series for natural, spatial sound through headphones</p> <ul style="list-style-type: none"> <li>• IVA processing and LOGIC7 surround decoder.</li> <li>• Five selectable sound presets (Rock/Pop, Classical, Jazz, Movie, Norm).</li> <li>• Automatic processing level adjustment to available computing power.</li> </ul> <p>Download your copy from: <a href="http://www.akg.com/hearoplayer">www.akg.com/hearoplayer</a></p>	<p><b>hearo</b> 999 AUDIOSPHERE DIGITAL PROCESSOR</p>  <p>Headphone amplifier with D/A converter and room simulator</p> <p>“Portable control room” provides consistent monitor sound for tracking, mixing, and editing.</p> <p>For information visit <a href="http://www.akg.com">www.akg.com</a></p>
---	--

For technical explanations, see page 14.

# HEARO STANDS FOR SURROUND.

## How to upgrade your stereo\* to surround without using loudspeakers or cables.

Experience fantastic theater surround sound at home with no extra loudspeakers. The wireless headphones of the HEARO Family turn any conventional stereo source into an advanced surround system.

All you need to do is connect the HEARO transmitter to your TV set, VCR, or DVD player. Of course, you can upgrade your hi-fi, PC, or game console as well. Each HEARO transmitter incorporates one or more surround decoders so you'll need no extra equipment.

The HEARO PLAYER plug-in is a special goody for PC users. It has been developed for Windows Media® Player, the standard audio player for Windows, and upgrades your stereo headphones to surround phones with no expensive peripherals or complicated modifications.

We will be happy to send you a separate, detailed HEARO Family folder:  
advertising@akg.com  
Or visit [www.akg.com](http://www.akg.com) for more information.



\* Home theater · TV / DVD / VCR · Hi-fi / (SA)CD / DVD(A) · PC / game consoles

Press clippings

**DVD TEST** REVIEW 1/03  
**Price/performance: Excellent**

**Best grade** 1/02  
**Upper class**  
 Price/performance: good to excellent

**REVIEW VIDEO** 9/02  
 "...TVA LOGIC7 generates 'soundscapes' with eight virtual sound sources from any mono or stereo program."

**REVIEW** 3/02  
**"Lean back and enjoy ... Top class."**

**REVIEW** 2/02  
 "... provided a full sound with fascinating 3-D effects ..."

**REVIEW DVD** 3/02  
 "... future-oriented and affordable alternative to loudspeaker systems ..."

12/01 **"Ingenious."**  
 Price/performance: excellent

Dec. 20, '01 **MONEY**  
 "... creates a brilliant 3-D sound – as if you were at the movie theater or concert hall."

Feb. 15, 2001 **TV-TODAY**  
**"Full home theater sound..."**

Dec. 11, '01 **Frankfurter Allgemeine**  
 "... a real masterpiece – a complete portable home theater worth every Euro."

Going to the movies.

Going to the movies now means cuddling up on your sofa and putting on your favorite DVD. All you need is a HEARO – no extra decoder, no extra loudspeakers, no extra cables.

Take some time to enjoy *IVA processing*. The sound won't seem to come from your headphones but from where the loudspeakers would normally sit. You will hear details you've never heard before.

Now switch in one of the surround decoders. Select *Dolby Surround Pro-Logic* and experience the typical surround sound from four directions. Or enjoy the full eight channels of the *LOGIC7 decoder* from high-end audio equipment manufacturer LEXICON. You will feel as if you were at the movies. The XXL speakers with patented AKG Varimotion diaphragms provide powerful sound and ensure accurate reproduction even at high volume levels. This feature has made HEARO Family headphones very popular with hi-fi enthusiasts, too.

For technical explanations, see page 14.

Wireless eight-channel surround headphone system.

<p><i>hearo 777</i> QUADRA DELUXE</p>				
<p><b>TRANSMITTER</b></p> <ul style="list-style-type: none"> <li>- Integrated <i>Dolby Surround Pro-Logic</i> and <i>LOGIC7</i> surround decoders.</li> <li>- AKG <i>IVA processing</i> for natural, spatial sound.</li> <li>- For TV/video/DVD/DVD(A)/Hi-fi/(SA)CD/PC/game consoles.</li> <li>- Three-channel PLL synthesizer for reliable reception.</li> <li>- Auto-tuning feature automatically tunes receiver to transmitter frequency at the push of a button.</li> <li>- Ease of connection to any audio source, Automatic Gain Control sets optimum audio levels continuously.</li> <li>- Selectable surround and stereo modes.</li> <li>- 3-in-1 base station: transmitter, charger, and storage cradle for the headphones.</li> </ul>		<p><b>HEADPHONES</b></p> <ul style="list-style-type: none"> <li>- Semi-open, dynamic design.</li> <li>- Varimotion XXL transducers for extremely accurate response.</li> <li>- Optimum radio transmission through walls and ceilings. Max. range: 330 ft. (100 m)*.</li> <li>- Choice of comfortable, detachable, easy-to-clean, fabric-covered or velour ear pads.</li> <li>- A single transmitter can be used with several sets of headphones.</li> <li>- Easy battery charging: just place headphones on receiver. No risk of overcharging.</li> <li>- High-power NiMh rechargeable batteries included for approx. 20 hours battery life.</li> <li>- Audio bandwidth: 20 Hz to 24 kHz</li> </ul>		

\* under ideal transmission conditions (free-field)

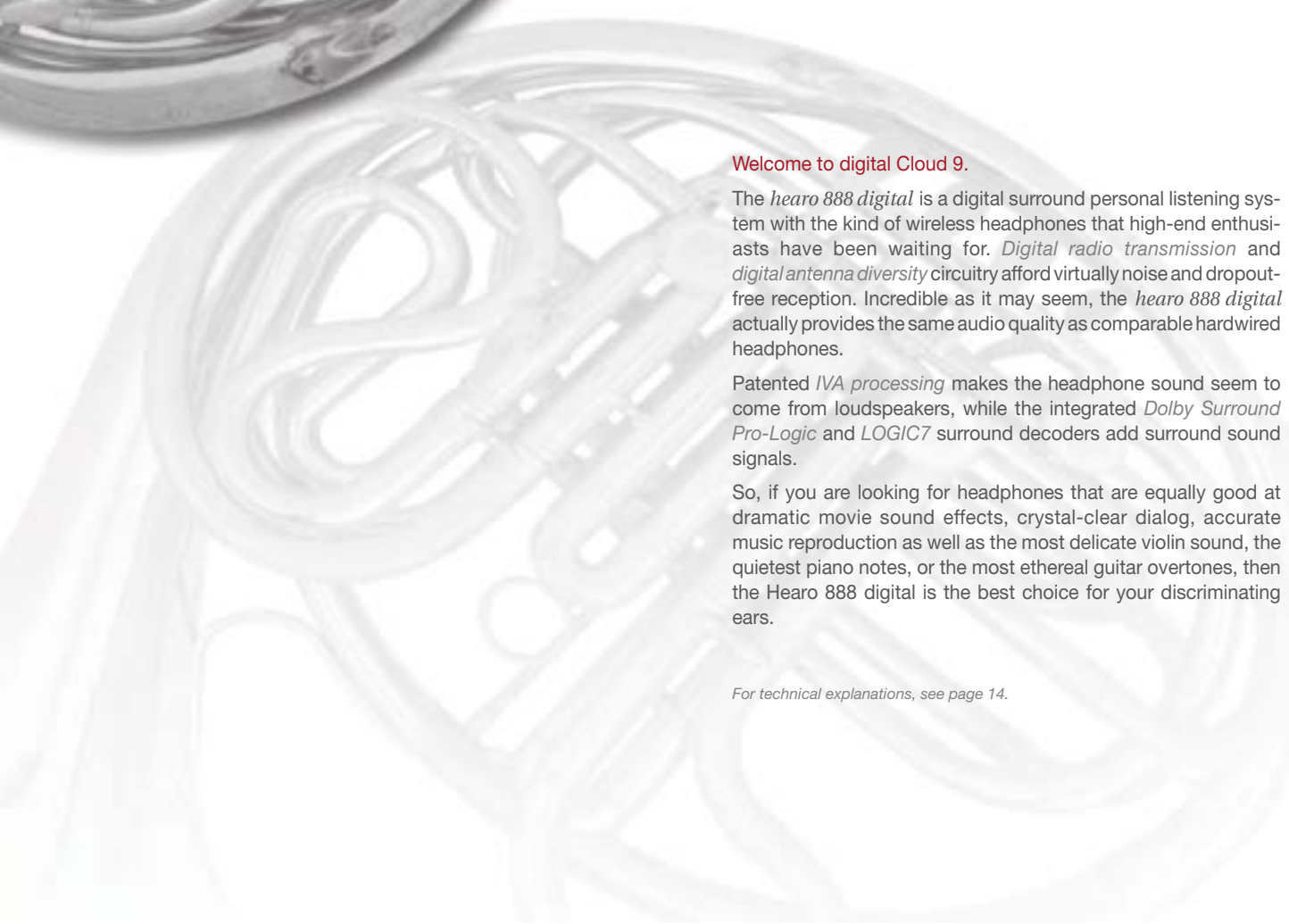


SURROUND  
FOR TV / HOME THEATER / HI-FI



*hearo*  
777 QUADRA DELUXE

Authentic theater surround sound.



**Welcome to digital Cloud 9.**


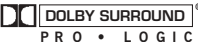

The *hearo 888 digital* is a digital surround personal listening system with the kind of wireless headphones that high-end enthusiasts have been waiting for. *Digital radio transmission* and *digital antenna diversity* circuitry afford virtually noise and dropout-free reception. Incredible as it may seem, the *hearo 888 digital* actually provides the same audio quality as comparable hardwired headphones.

Patented *IVA processing* makes the headphone sound seem to come from loudspeakers, while the integrated *Dolby Surround Pro-Logic* and *LOGIC7* surround decoders add surround sound signals.

So, if you are looking for headphones that are equally good at dramatic movie sound effects, crystal-clear dialog, accurate music reproduction as well as the most delicate violin sound, the quietest piano notes, or the most ethereal guitar overtones, then the *Hearo 888 digital* is the best choice for your discriminating ears.

*For technical explanations, see page 14.*

**Wireless eight-channel surround headphone system with digital radio link for use with high-end equipment.**

<p><i>hearo 888</i> DIGITAL</p>			
<p><b>TRANSMITTER</b></p> <ul style="list-style-type: none"> <li>- Integrated <i>Dolby Surround Pro-Logic</i> and <i>LOGIC7</i> surround decoders.</li> <li>- AKG <i>IVA processing</i> for natural, spatial sound.</li> <li>- Digital and analog inputs.</li> <li>- For TV/video/DVD/DVD(A)/Hi-fi/(SA)CD/PC/game consoles.</li> <li>- Perfectly suited for high-resolution media such as DVD(A) and SACD.</li> <li>- Digital radio link for minimum noise.</li> <li>- ACS for zero delay between picture and sound.</li> <li>- Three selectable radio channels.</li> <li>- Three selectable sound presets: Norm/Music/Movie.</li> <li>- Memory card extension for loading personal ear-matching curves from memory cards.</li> <li>- Selectable surround and stereo modes.</li> <li>- 3-in-1 base station: transmitter, charger, and storage cradle for the headphones.</li> </ul> <p>Available from spring 2004</p>		<p><b>HEADPHONES</b></p> <ul style="list-style-type: none"> <li>- Same performance as high-end hardwired headphones.</li> <li>- <i>Digital antenna diversity</i> receiver minimizes signal dropouts.</li> <li>- XXL transducers with computer-optimized Varimotion diaphragm geometry for excellent hi-fi reproduction. Sparkling sound even at high volume levels.</li> <li>- Balance control for left/right volume adjustment.</li> <li>- Unbreakable metal arches.</li> <li>- Exquisite leather headband.</li> <li>- Semi-open, circum-aural dynamic earphones.</li> <li>- Optimum radio transmission through walls and ceilings. Max. range: 165 ft. (50 m)*.</li> <li>- A single transmitter can be used with several sets of headphones.</li> <li>- Comfortable velour ear pads.</li> <li>- Easy battery charging: just place headphones on receiver. No risk of overcharging.</li> <li>- High-power NiMh rechargeable batteries included for approx. 5 hours battery life.</li> <li>- Quick-charging – full power restored in less than 2 hours.</li> <li>- Audio bandwidth: 18 Hz to 24 kHz</li> </ul>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">* under ideal transmission conditions (free-field)</p>

SURROUND  
FOR HI-FI PURISTS



*hearo*  
888 DIGITAL **NEW**

Live concert realism.





### Tailor-made.

The *hearo 999 audiosphere II* incorporates the best of today's wireless headphone technology. In addition to first-rate high-end wireless headphones, *digital radio transmission*, and *digital antenna diversity* for virtually noise and dropout-free reception, the *hearo 999 audiosphere II* uses a *DOLBY DIGITAL* decoder.

The *hearo 999 audiosphere II* has been designed for those who like to tweak their equipment to get the best sound. You can adjust the frequency response to your own *ear transfer curves*, select and fine tune various sound presets to create your own personal sound.

For technical explanations, see page 14.

## All-digital wireless surround headphone system with Dolby Digital decoder.

<b>hearo 999</b> AUDIOSPHERE II	 <small>INDIVIDUAL SURROUND ACOUSTICS</small>			VMA <sub>x</sub>
<b>TRANSMITTER</b> <ul style="list-style-type: none"><li>- Integrated <i>Dolby Surround Pro-Logic</i> and <i>Dolby Digital</i> surround decoders.</li><li>- AKG <i>IVA processing</i> for natural, spatial sound.</li><li>- Integrated headphone amplifier for use with hardwired headphones.</li><li>- Six selectable <i>ear matching curves</i>.</li><li>- Four selectable sound presets: Norm/Music/Movie/Voice. Each preset can be fine-tuned in three steps.</li><li>- Selectable surround and stereo modes. Three room simulations available in stereo mode.</li><li>- VMA<sub>x</sub> delivers surround effect from a single pair of loudspeakers.</li><li>- Accepts digital and analog input signals: TV/video/DVD/DVD(A)/Hi-fi/(SA)CD/PC/game console.</li><li>- Perfectly suited for high-resolution media such as DVD(A) and (SA)CD.</li><li>- <i>Digital radio link</i> for minimum noise.</li><li>- ACS for zero delay between picture and sound.</li><li>- Optical and coaxial digital inputs.</li><li>- External swiveling antenna for efficient transmission.</li><li>- 864 MHz UHF operating band.</li></ul>	<b>HEADPHONES</b> <ul style="list-style-type: none"><li>- Same performance as high-end hardwired headphones.</li><li>- <i>Digital antenna diversity</i> receiver minimizes signal dropouts.</li><li>- XXL transducers with computer-optimized Varimotion diaphragm geometry for excellent hi-fi reproduction. Sparkling sound even at high volume levels.</li><li>- Balance control for left/right volume adjustment.</li><li>- Unbreakable metal arches.</li><li>- Exquisite leather headband.</li><li>- Semi-open, circum-aural dynamic earphones.</li><li>- Optimum radio transmission through walls and ceilings. Max. range: 165 ft. (50 m)*.</li><li>- A single transmitter can cover several headphones.</li><li>- Choice of leather or velour ear pads.</li><li>- High-power NiMH rechargeable batteries included for approx. 5 hours battery life.</li><li>- Quick-charging in less than 2 hours.</li><li>- Audio bandwidth: 18 Hz to 24 kHz</li></ul>	 * under ideal transmission conditions (free-field)		
<b>hearo 999</b> AUDIOSPHERE DIGITAL PROCESSOR <b>Headphone amplifier with D/A converter and room simulator</b> "Portable control room" provides consistent monitor sound for recording, tracking, mixing, and editing. For information visit <a href="http://www.akg.com">www.akg.com</a>				

PREMIUM  
SURROUND



*hearo*  
999 AUDIOSPHERE II

**NEW**

Esthetic sound for audiophile individualists.



#### INPUT

**Digital:** Activates the digital audio input.

**Dynamic:** Dolby Digital provides the full dynamic range of theater equipment. The DYNAMIC switch lets you reduce the dynamic range to that of standard TV sets or VCRs.

#### MODE

**IVA:** Natural, spatial (binaural) sound on headphones.

**Direct:** stereo mode.

**VMAX:** provides 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 de-activated and you are listening to normal stereo. In stereo mode, you can 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.

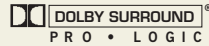
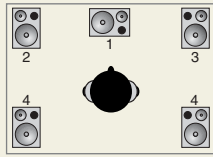
#### SOUND

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 fine adjustment settings.

# AKG SURROUND TECHNOLOGY

## → Dolby Surround Pro-Logic decoder

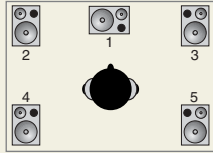
Movie soundtracks are usually mixed down to four channels. Left and Right are the same two channels used for hi-fi stereo. The third channel is the Center channel projected from above or below the video screen. The fourth channel is called "surround" or "rear" and is usually projected by two loudspeakers placed behind the listeners.



These four channels are encoded by a special circuit and recorded in "piggy-back" 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.

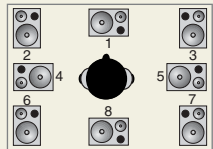
## → Dolby Digital decoder

The digital multi-channel format of Dolby Laboratories, Inc. used in advanced commercial 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. These discrete channels allow an optimized spatial sound to be generated that can be processed in the digital domain by IVA without any degradation of sound quality.



## → LOGIC7 decoder

Up to now, the latest development by the innovative engineers at LEXICON was only used in high-quality, high-end processors. Now, the unique advantages of the LOGIC7 decoder 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 also provides left and right side 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.

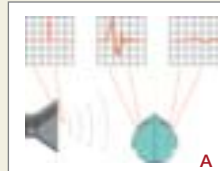
## → IVA processing

Patented AKG IVA processing for spatial sound is the heart of each HEARO surround headphone system. IVA provides natural (binaural) imaging through headphones in a similar way as if you were listening to a pair of loudspeakers.

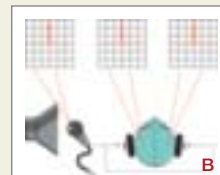


Binaural sound

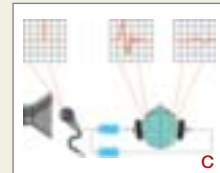
**A:** Sound waves from a given source arrive at one ear earlier than they do at the other, and they "look" different, too. Amplitude and phase shifts allow us to localize a sound source in space.



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



**C:** IVA processing developed by AKG adds to a stereo signal the amplitude and phase shifts that are necessary to create a sense of natural, spatial, "outside the head" imaging.



In short, IVA processing provides a perfectly natural, spatial (binaural) sound through headphones.

## → Digital transmission

Digital transmission ensures pristine surround sound with a CD-level dynamic range and no perceptible noise. Digital radio links are immune to interference and "jamming" from devices emitting RF radiation such as TV sets or computers.

## → Eight-channel surround

Eight-channel surround is an improved version of the internationally accepted five-channel format. The new format models eight virtual loudspeakers distributed around the room. The result is an incredibly spacious sound. Eight-channel surround requires a → LOGIC7 decoder.

## → Ear matching curves

Sound waves from a given source arrive at one ear earlier than they do at the other, (see also "IVA processing", para A) because the head, trunk, and ears cause amplitude and phase shifts. All these changes can be illustrated by so-called "head-related transfer function". Since these curves differ from person to person, everyone perceives sound in a different way. Ear matching curves are electronic models of outer ear transfer curves that match the headphone's sound to the user's acoustic perception.

## → Digital antenna diversity

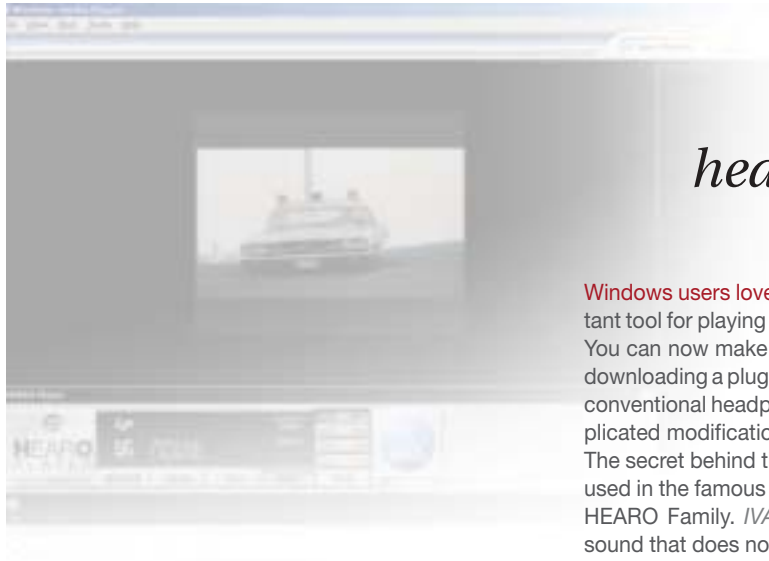
Diversity reception is normally used in professional wireless microphone systems to ensure perfect reception even under extremely difficult conditions. An adaptive algorithm makes sure the antenna that delivers the better signal is always active to prevent dropouts.

## → VMAx

VMAx provides surround sound from a pair of stereo loudspeakers, with no extra hardware. All you need is a stereo amplifier and speakers. The VMAx processor simulates the envelopment of surround sound.



"Dolby", the "Double-D" and "Pro-Logic" are trademarks of Dolby Laboratories Licensing Corporation. Logic7 and the Logic7 Logo are registered trademarks of Lexicon, Inc., a Harman International Company.



*hearo player* **NEW**

**Windows users love it:** The Windows Media® Player is an important tool for playing back music or video programming on the PC. You can now make this program even more powerful, simply by downloading a plug-in from AKG that provides 3-D sound through conventional headphones without expensive peripherals or complicated modifications.

The secret behind this miracle are two technologies that are also used in the famous wireless surround headphone systems of the HEARO Family. *IVA processing* developed by AKG provides a sound that does not play inside the head as it would with normal headphone reproduction, but actually seems to come from loudspeakers placed in 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 the 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 automatically or manually. Selectable presets such as MOVIE and JAZZ provide typical 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.



- Five selectable sound presets (ROCK/POP, CLASSICAL, JAZZ, MOVIE, NORM) let you match the HEARO Player sound to your personal preferences.
- Automatic or manual matching of IVA processing level to available computing power.

## HEARO-ize your PC.

<p><i>hearo player</i> HEADPHONE SURROUND CENTER</p>  	
<ul style="list-style-type: none"> <li>- Available as a software plug-in for Windows Media® Player 9 Series</li> <li>- Five selectable sound presets (ROCK/POP, CLASSICAL, JAZZ, MOVIE, NORM) let you match the HEARO Player sound to your personal preferences.</li> <li>- Automatic or manual matching of IVA processing level to available computing power.</li> <li>- High-end equipment type user interface.</li> <li>- Available for downloading from <a href="http://www.ake.com/hearoplayer">www.ake.com/hearoplayer</a> as a free demo or the moderately-priced full version.</li> </ul> <p><b><a href="http://www.ake.com/hearoplayer">www.ake.com/hearoplayer</a></b></p>	<p>System requirements</p> <p><u>Operating system:</u> Microsoft Windows® 98 Second Edition, Windows 2000, Windows Millennium Edition, Windows XP Home Edition, Windows XP Professional</p> <p><u>Media Player:</u> Windows Media® Player 9 Series</p> <p><u>Processor:</u> min. 450 MHz (Pentium/AMD) (1,600 MHz Pentium III recommended)</p> <p><u>RAM:</u> 128 MB (256 MB recommended)</p> <p><u>Sound board:</u> 16-bit</p> <p><u>Monitor:</u> Super VGA (800 x 600) oder higher</p> <p><u>Headphones:</u> all stereo headphones (AKG <i>k 101</i>, AKG <i>k 301xtra</i> recommended)</p>
<p>You can download the Windows Media® Player 9 Series directly at <a href="http://www.ake.com/hearoplayer">www.ake.com/hearoplayer</a></p> <p>The Windows Media® Player 9 Series supports the following audio and video file types:                  Audio file types: Audio-CD, .mp3, .wav, .midi, .wma                  Video file types: .mpeg, .avi, .wmv, Video-CD                  Additional file types: .asf, .auiff, .au, .wpl, .wmx, .wmd, .wmz</p>	

Windows is a registered trademark of Microsoft Corporation in the United States and other countries. Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

# WIRELESS

**BASIC** *Page 17* High-value headphones  
 → Self-adjusting headband  
 → High-capacity rechargeable batteries



*k 311 ir* Infrared stereo headphones with a clean sound  
 → Balance control  
 → 3 in 1

*k 105 uhf* RF stereo headphones with powerful bass and a clear high end

---

**DESIGN** *Pages 18-19* RF headphones with exceptional sound and styling  
 → Self-adjusting headband  
 → 3 in 1  
 → High-capacity rechargeable batteries  
 → Autotuning function



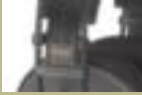
*k 306 afc* Powerful sound with extended bass range **NEW**

*k 406 afc* Crisp, well-balanced sound **NEW**


*k 506 afc* → Patented AKG XXL Vari-motion speakers for ultimate accuracy **NEW**

**UNIQUE AKG FEATURES**

→ **Self-adjusting headband**  
 The headband automatically adjusts to your head to ensure a perfect fit. The headband also takes the weight of the headphone off of your ears and distributes it on top of your head.



→ **3 in 1**  
 The transmitter serves as a storage cradle and battery charger for the headphones (except *k 105 uhf*). As soon as you place the headphones on the transmitter cradle, battery re-charging starts automatically.



→ **High-capacity rechargeable batteries**  
 The supplied batteries have a long life, with no risk of overcharging and minimum memory effect.

→ **Speech-optimized response**  
 AKG TV headphones boost the frequency range of human speech. Therefore, dialogue will be more intelligible amid the ambience, sound effects, and music, making it easier to catch all the subtle nuances of your favorite actor's voice.

# WIRELESS AND HARDWIRE TV HEADPHONES

**WIRELESS** *Page 21* Lightweight wireless TV headphones for exceptional comfort  
 → Speech optimized response  
 → 3 in 1  
 → High-capacity rechargeable batteries



*balance k 122 ir* Infrared TV headphones with  
 → Balance control **NEW**  
 → Channel selector **NEW**

*balance k 216 afc* Funk-TV-Hörer mit  
 → Balance control **NEW**  
 → Auto-tuning function **NEW**

---

**HARDWIRE** *Page 20* Hardwire TV headphones with




*k 71 tv* → Speech optimized response **NEW**  
 → Balance control  
 → Extra-long cable (6 m/20 ft.)

→ **Balance control**  
 Everybody perceives sound differently, and there may even be differences in sensitivity between your left and right ears. The balance control lets you adjust left and right volumes for an optimally balanced sound.

→ **Auto-tuning function**  
 Pressing the Auto-tuning button causes the headphones to tune automatically to the frequency selected on the transmitter.

→ **Patented AKG Varimotion diaphragm**  
 The diaphragm is the most important part of the speaker capsule. An ideal diaphragm should combine high compliance around the perimeter with a piston-like motion in the center. The patented Varimotion diaphragm from AKG does exactly that. It is thicker in the center than around its perimeter. The result is absolute accuracy, better imaging and clarity at high frequencies. Being thinner around the rim, the diaphragm will vibrate more easily to provide a very powerful bass range.





# WIRELESS BASIC



*k 311 ir*

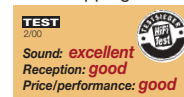
**Your untiring companion.** If you want to listen to your favorite CD for the eleventh time without bothering your neighbors or are planning for a long night on the sofa watching TV, the *k 311 ir* is your ideal companion. A *balance control* lets you adjust the left/right volume ratio for added convenience.



*k 105 uhf*

**Ideal for active hi-fi enthusiasts** who wouldn't want to miss lively, powerful bass and clear highs even when they are busy around the house or garden. The RF signal of the *k 105 uhf* will penetrate walls and ceilings. Also ideal for TV, multimedia/computer use.

Press clippings



*k 105 uhf*

## Infrared.

## RF.

### *k 311 ir* \*

Wireless infrared stereo headphones with *balance control*

- Semi-open, circum-aural earphones
- Several headphones can be used simultaneously with a single transmitter
- Breathing, soft, circum-aural fabric ear pads and proven *self-adjusting headband* for excellent comfort

- Infrared transmission, max. range: 10 m (33 ft.)
  - Convenient volume control on the headphones
  - *Balance control* for left/right volume ratio adjustment
  - *3-in-1* transmitter doubles as storage cradle and charger.
  - NiCd rechargeable batteries, approx. 12 hours battery life
  - Audio bandwidth: 20 Hz to 22 kHz

### *k 105 uhf*

Wireless RF stereo headphones

- RF transmission: optimum signal quality, penetrates walls and ceilings. Max. range: 100 m (330 ft.)\*
- Convenient, slim-line transmitter with integrated antenna
- Selector switch for three different frequencies
- 864 MHz band
- NiCd rechargeable batteries, approx. 10 hours battery life
- Audio bandwidth: 18 Hz to 20 kHz



3-in-1

\* Under ideal transmission conditions (free-field)

For technical explanations, see page 16.



*k 306 afc* **NEW**

*k 406 afc* **NEW**

Looking for headphones that sound as fantastic as they look? This line of wireless headphones has been sculpted to match modern interior design. And, since they bear the AKG label, their sound is as stunning as their appearance.

While the *k 306 afc* is a versatile system for TV, rock, and pop, the *k 406 afc* with its detailed sound is an ideal choice for more demanding listeners.

## Wireless sculptures.

<i>k 306 afc</i> Wireless RF stereo headphones Lightweight all-round system	<i>k 406 afc</i> Wireless RF stereo headphones Extremely light headphones, brilliant and detailed sound.	<i>k 506 afc</i> Wireless RF stereo headphones with XXL Varimotion speakers for maximum accuracy. Powerful and sweeping sound.
<ul style="list-style-type: none"> <li>- Three-channel PLL synthesizer for reliable reception.</li> <li>- Optimum radio transmission through walls and ceilings. Max. range: 100 m (330 ft.)*</li> <li>- <i>Auto-tuning function</i></li> <li>- Connects to any audio source, Automatic Gain Control sets optimum audio levels continuously.</li> </ul>		
<ul style="list-style-type: none"> <li>- Semi-open, supra-aural earphones</li> <li>- Soft, skin-compatible fabric ear pads</li> <li>- 864 MHz band</li> <li>- NiCd rechargeable batteries, approx. 10 hours battery life</li> <li>- Audio bandwidth: 20 Hz to 22 kHz</li> </ul>	<ul style="list-style-type: none"> <li>- Semi-open, supra-aural earphones</li> <li>- Comfortable velour ear pads</li> <li>- 864 MHz band</li> <li>- NiMh rechargeable batteries, approx. 20 hours battery life</li> <li>- Audio bandwidth: 20 Hz to 24 kHz</li> </ul>	<ul style="list-style-type: none"> <li>- Several headphones can be used simultaneously with a single transmitter.</li> <li>- <i>Self-adjusting, padded headband</i> optimally conforms to every head.</li> <li>- Transmitter doubles as storage cradle and charger ("3-in-1"). Headphones do not need to be switched off for charging.</li> <li>- Ear pads are easy to remove and clean.</li> <li>- Semi-open, circum-aural earphones</li> <li>- Comfortable velour ear pads</li> <li>- 864 MHz band</li> <li>- NiMh rechargeable batteries, approx. 20 hours battery life</li> <li>- Audio bandwidth: 18 Hz to 24 kHz</li> </ul>

\*Unter idealen Übertragungsbedingungen (Freifeld)

For technical explanations, see page 16.



*k 506 afc* **NEW**

The *k506 afc* does not only look different than its lightweight counterparts, it provides an even higher level of quality. XXL speakers with patented AKG Varimotion diaphragms deliver a powerful, sweeping sound with excellent imaging and accuracy. Ideal for music and video programming with a wide dynamic range and highly contrasting sounds.

*For technical explanations, see page 16.*

Exceptional styling – exceptional wireless technology.



AKG ACOUSTICS

Brilliance in Sound and Design



Order your FREE copy of the brochure on the new Design Series headphones from [advertising@akg.com](mailto:advertising@akg.com) Or visit [www.akg.com](http://www.akg.com) for more information.

# TV HARDWIRED



*k 71 tv* **NEW**

These cost-efficient TV headphones feature a speech-optimized sound and extra-long cable (20 ft. / 6 m). They are extremely light and comfortable to wear. A control box provides separate left and right volume controls. The *k 71 tv* has a dual-channel mode, too.

## Long cable. Close-in sound.

### *k 71 tv*

Hardwire TV stereo headphones  
with 6 m (20 ft.) cable

- Easy to connect to every TV set or hi-fi system.
- Control box with separate left and right volume controls for setting volume and balance.
- Mono/stereo/dual-channel mode selector (allows language selection on dual-language programming).
- *Speech-optimized response.*
- Semi-open supra-aural earphones.
- Single cable for ease of use.
- Easy-to-replace, washable ear pads.
- Audio bandwidth: 20 Hz to 20 kHz.



For technical explanations, see page 16.



## Loud and soft are highly subjective terms.

This is why TV often causes quarrels among friends or within the family. What sounds soft to one person may be too loud for the next.

Of course, the volume should be set so that everybody gets all the dialog but turning the volume up does not necessarily mean the dialog becomes any clearer and certainly won't create a pleasant, relaxed mood.

Sounds familiar?

The reasons are simple.

Everybody perceives sound differently, and your left ear may be more sensitive than your right ear. This means that sometimes it would be better if the sound were a little louder at one ear than it is at the other.

Another reason is that most headphones are designed for music reproduction. If you just turn up the volume of your TV set, the ambient sounds and music become louder too so you won't hear the actors' voices any better.

The comfortable TV headphones from AKG have been optimized for speech reproduction and allow you to adjust the left/right volume ratio. They bring a new level of fun to TV watching.

Available models

- *k 71 tv* hardwired TV headphones
- *balance k 122 ir* infrared wireless headphones
- *balance k 216 afc* RF wireless headphones

You can see at first sight that these are special headphones. The *Balance Series* headphones have indeed been designed for lounging on the sofa in front of the TV. Designed for couch potatoes, these wireless headphones are true stress-killers. Optimized for speech reproduction and featuring volume and balance controls, they make watching and listening to TV a highly comfortable experience, particularly, if your partner is less keen on listening to the sound of your favorite program. Another convenient feature is the automatic on/off switch: the headphones will switch on automatically when you put them on and off as you take them off.



*balance k 122 ir* **NEW**




*balance k 216 afc* **NEW**

The *balance k 122 ir* uses infrared transmission that depends on a direct line of sight between the transmitter and receiver. Wherever you can see the transmitter, you can move about as you like and receive a clean signal.

The *balance k 216 afc* uses RF (radio) transmission. An *Auto-tuning* button causes the receiver to tune automatically to the transmitter frequency. You can move about freely inside your house or garden while listening, because the radio signal penetrates walls and ceilings.

## A new way of listening. No cable.

<p><i>balance k 122 ir</i> Wireless infrared TV headphones</p>	<p><i>balance k 216 afc</i> Wireless RF TV headphones</p>
<ul style="list-style-type: none"> <li>- <i>Balance control</i> for adjusting the left/right volume ratio.</li> <li>- <i>Optimized for speech</i> intelligibility and accurate music reproduction.</li> <li>- Automatic on/off switch on the speaker arm.</li> <li>- Excellent wearing and listening comfort. Pleasant to wear even in a reclined position. Low weight. Also ideal for wearers of eyeglasses.</li> <li>- Open-back earphones for fatigue-free listening also allow you to hear the telephone ringing or other important "ambient sounds".</li> <li>- Several headphones can be used simultaneously with a single transmitter.</li> <li>- Transmitter doubles as storage cradle and charger ("<i>3 in 1</i>").</li> <li>- Nonstop listening: system includes two high quality NiMh rechargeable batteries. Charge one while you use the other. Charger will charge up to three batteries simultaneously in only about four hours. No memory effect. No overcharging.</li> </ul>	
<ul style="list-style-type: none"> <li>- Approx. 5 hours battery life</li> <li>- Infrared transmission ensures mobility and interference-free reception wherever you can see the transmitter.</li> <li>- Suited for rooms up to 65 m<sup>2</sup> in size, max. range: 43 ft. (13 m)</li> <li>- Selector switch for dual-language programming (language 1 or 2) or stereo mode</li> <li>- Audio bandwidth: 30 Hz to 18 kHz</li> </ul>	<ul style="list-style-type: none"> <li>- Approx. 4 hours battery life</li> <li>- RF (radio) transmission. Reliable reception through walls and ceilings within max. range of 330 ft. (100 m)*</li> <li>- <i>Auto-tuning function</i></li> <li>- 864 MHz band</li> <li>- Audio bandwidth: 30 Hz to 18 kHz</li> </ul> <p style="font-size: small; text-align: right;">* under ideal transmission conditions (free-field)</p>

Order your FREE copy of the AKG balance brochure: [advertising@akg.com](mailto:advertising@akg.com) Or visit [www.akg.com](http://www.akg.com) for more information.

Availability of AKG wireless headphones subject to local legislation.

For technical explanations, see page 16.

**STUDIO** *Pages 23-25*

Headphones for special applications

- Self-adjusting headband
- Gold-plated screw-on jack plug and detachable cable
- Replaceable ear pads

*k 171 studio* For DJ and mixing use with → plug-in cable **PORTABLE** **NEW**

*k 271 studio* For broadcast and live sound use with → plug-in cable **NEW**


*k 141 monitor* Cult status headphones of the pop stars

*k 141 studio* New, with XXL speakers for hi-fi enthusiasts **PORTABLE** **NEW**

*k 240 monitor* Classic studio headphones

*k 240 studio* Classic headphones with XXL speakers for hi-fi users **NEW**

*k 240 df studio monitor* Reference headphones for radio stations



**BASIC** *Pages 26-27*

Headphones for multiple applications


- Self-adjusting headband
- Vario jack plug, Gimbal suspension

*k 44* Powerful bass

*k 55* Turbo bass

*k 66* Clean sound

*k 71* Lightweight headphones **PORTABLE** **NEW**




**ALLROUND** *Page 27*

Headphones for hi-fi use

- Self-adjusting headband
- Gold plated Vario jack plug
- Replaceable ear pads

*k 101* Lightweight headphones with powerful sound **PORTABLE** **NEW**

*k 301xtra* Versatile headphones with ultimate accuracy **NEW**




**HIGH-END** *Page 28-29*

High-end headphones

*k 501* Highly realistic sound, ideal for classical music

- Self-adjusting headband
- Gold plated Vario jack plug
- Replaceable ear pads
- Patented AKG Varimotion speakers with hand-selected diaphragm

*k 1000* Reference headphones  
Legendary high-end headphones with binaural imaging



**UNIQUE AKG FEATURES**

→ **Self-adjusting headband**

The headband automatically adjusts to your head to ensure a perfect fit.



→ **Gold plated Vario jack plug**

matches both 1/4" and mini-TRS jacks. The single, 99.99% oxygen-free cable provides loss-free signal connection for years of useful life.



→ **Plug-in cable**

with high quality mini-XLR connector for easy cable replacement.



Optional accessories:

**EK 500 S coiled headphone cable** (5 m/16 ft. long; mini jack plug; mini XLR plug for connection on headphones)

**EK 300 headphone cable** (3 m/10 ft. long; mini jack plug; mini XLR plug for connection on headphones)

→ **Replaceable ear pads**

are made of breathing, skin-compatible material and easy to clean.



→ **Patented AKG Varimotion diaphragm**

The diaphragm is the most important part of the speaker capsule.



Acoustic scientists require this extremely thin piece of foil to perform the most spectacular feats.

An ideal diaphragm should combine high compliance around the perimeter with a piston-like motion in the center. The patented Varimotion diaphragm from AKG does exactly that. It is thicker in the center than around its perimeter so it moves like a piston and is immune to partial oscillations. The result is absolute accuracy, better imaging and clarity at high frequencies. Being thinner around the rim, the so-called movement zone, the diaphragm will vibrate more easily to provide a very powerful bass range.

The audiophile-grade *k 501* uses a thicker 80-µm foil with even more stable vibration performance. The diaphragms on the *k 501* are hand-selected and feature trapezoidal corrugations that further enhance their excellent acoustic performance.



*k 171 studio* **NEW**



*k 271 studio* **NEW**

Press clippings

**TEST** 4/03 **tools**  
*Summary:* The new K class is a must.

**TEST** 7/03 **SOUNDCHECK**  
 „The gimbal-suspended earphones are very comfortable ... The K 271 provide exceptional low-end and high-frequency reproduction.”

**TEST** 7/03 **KEYBOARDS**  
*Summary:* Both models provide great comfort, ease of use, clever details, and a really great sound for their appropriate applications at a good price.”


k 171/k 271

The best choice for tough use in loud environments. DJs love these rugged headphones that allow for comfortable single-ear monitoring and the incredible amount of isolation delivered by these closed-back earphones. And it goes without saying that the *k 171 studio* deliver exactly the kind of powerful sound a DJ needs.

Minimum leakage and ambient noise reduction are important requirements for monitoring in radio, TV, and recording studios. At the same time, these circum-aural headphones sound great and are light and easy to use. What makes them a first choice among studio engineers is their accurate response and the auto-shutoff feature that mutes the headphones when the user takes them off.

It's party time.

Fix it in the mix.

<p><i>k 171 studio</i> <b>PORTABLE</b></p> <p>Hi-fi stereo headphones recommended for broadcast, DJ mixing use</p>	<p><i>k 271 studio</i></p> <p>Hi-fi stereo headphones recommended for live sound and studio monitoring</p>
<ul style="list-style-type: none"> <li>- <i>Varimotion</i> XXL speakers for ultimate accuracy. Crisp, detailed sound even at high volume levels.</li> <li>- Single, <i>plug-in, easily replaceable cable</i> with mini-XLR connector.</li> <li>- Gimbal suspended ear cups for gentle adjustment to your ears.</li> <li>- <i>Self-adjusting headband</i> conforms to every head shape.</li> <li>- High efficiency, low-impedance and wide dynamic range make them a good choice for portable use.</li> <li>- Hard gold-plated contacts and <i>jack plug</i> with screw-on adapter.</li> <li>- 99,99% <i>oxygen-free cable</i>.</li> </ul> <div style="text-align: right;"> <p>Plug-in cable</p>  </div>	
<ul style="list-style-type: none"> <li>- Closed-back, supraaural earphones.</li> <li>- Ideal for DJs: rugged, loud, light, allow for single-ear monitoring.</li> <li>- Frequency range: 18 Hz to 26 kHz</li> </ul>	<ul style="list-style-type: none"> <li>- Closed-back, supra-aural earphones.</li> <li>- Automatic ON/OFF switch: headphones will mute automatically when they are taken off.</li> <li>- Frequency range: 16 Hz to 28 kHz.</li> </ul>

For technical explanations, see page 22.

Press clippings

**TEST** 9/02 PRODUCTION PARTNER  
 "... a unique head-phones success story."

k 141 monitor+ k 240 monitor

**TEST** 9/02 **AUDIO**  
 Ranging  
 AUDIO Prüfung

**TEST** Video Aktiv Digital 4/02  
 + very good sound  
 + good comfort  
 Comment: **excellent**

STIFTUNG WARENTEST  
**GOOD**  
 Headphones tested: 22  
 Quality score: 0 excellent, 5 good  
 1/97 **test**

k 141 monitor

**TEST** KEYBOARDS 6/02  
 "The studio model, too reproduced the input signal clearly and accurately, and besides smooth mid and high frequencies, there was always a clean and powerful low-end."

**TEST** 3/02 **stereoplay**  
**GOOD**

k 141 studio



k 141 monitor

k 141 studio **NEW**

Cult status headphones and most used headphones in US studios (Billboard survey). A favorite of many great international pop stars.

The most popular headphones of US studios is now available in a new version with XXL speakers for higher sensitivity, a wider dynamic range, and higher output.

Cult status studio headphones available for hi-fi users.

<p><b>k 141 monitor</b>                  Stereo studio headphones recommended for recording studios</p>	<p><b>k 141 studio</b> <b>PORTABLE</b>                  Hi-fi stereo headphones recommended for use with portable and home hi-fi equipment, recording, monitoring, and mixing</p>
<ul style="list-style-type: none"> <li>- Semi-open, supra-aural earphones</li> <li>- Proven AKG <i>self-adjusting headband</i> and gimbal suspension for excellent comfort.</li> <li>- 99,99% oxygen-free cable.</li> </ul>	
<ul style="list-style-type: none"> <li>- Most widely used headphones in US studios.</li> <li>- Single cable for ease of use.</li> <li>- 600-ohm impedance for special studio applications.</li> <li>- Frequency range: 20 Hz to 20 kHz.</li> </ul>	<ul style="list-style-type: none"> <li>- <i>Variation</i> XXL speakers for ultimate accuracy. Crisp sound even at high volume levels.</li> <li>- High efficiency and wide dynamic range, a good choice for portable use.</li> <li>- Single, <i>plug-in, easily replaceable cable</i> with mini-XLR connector.</li> <li>- Frequency range: 18 Hz to 24 kHz.</li> </ul>

For technical explanations, see page 22.



## Pressestimmen

**TEST** **VIDEO**  
8/02

"Although an open-back design, the K 240 suppressed ambient noise quite efficiently ... Sound-wise, they were the powerful kind, but still felt very agile. Perhaps a little reserved at the high end, they provided a beautifully chiseled mid range."

**TEST** **AMAZON.de**  
7/02

**RECOMMENDATION**  
JULY 2002  
SRS K240 Studio A  
SRS K270 Studio

**TEST** **KEYBOARDS**  
6/02

"The studio model, too reproduced the input signal clearly and accurately, and besides smooth mid and high frequencies, there was always a clean and powerful low-end."

**TEST** **stereoplay**  
3/02  
**GOOD**

**TEST** **AUDIO**  
10/01

AKG K 240 Studio wins thomann Award 2002 for:  
*superior sound, excellent comfort, exemplary price/performance.*

k 240 studio



## Press clippings

**TEST** **PRODUCTION PARTNER**  
9/02

"... a unique headphones success story."

k 240 monitor + k 141 monitor

Grand Prix Award AudioVideo

k 240 monitor

**AUDIO VIDEO INTERNATIONAL**  
"Headphones of the Year"

k 240 df studio monitor

## k 240 monitor

A classic by now, the *k 240 monitor* has been one of the best-selling models in AKG's history. Its wideband dynamic speakers deliver punchy bass and finely detailed highs. Its natural, uncolored sound has made it immensely popular.



## k 240 studio **NEW**

The improved version of a classic upgraded with **XXL speakers** and higher sensitivity for a wider dynamic range and higher output brings studio standard sound to the world of hi-fi. A must for every professional user.

## k 240 df studio monitor

Radio station reference headphones. Diffuse-field equalized and built to IRT (German Institute for Radio Technology) standards, the *k 240 df* provide consistent sound quality under all conditions with its ruler-flat frequency response.

## Winners of many awards.

<p><i>k 240 monitor</i></p> <p>Professional stereo headphones for studio use</p> 	<p><i>k 240 studio</i></p> <p>Professional hi-fi stereo headphones</p>	<p><i>k 240 df studio monitor</i></p> <p>Reference headphones for radio stations</p> 
<ul style="list-style-type: none"> <li>- Semi-open, circumaural earphones.</li> <li>- Proven <i>AKG self-adjusting headband</i> and gimbal suspension for excellent comfort.</li> <li>- 99.99% <i>oxygen-free cable</i>.</li> </ul>		
<ul style="list-style-type: none"> <li>- Dynamic wideband speakers for punchy bass and finely detailed highs.</li> <li>- Single cable for ease of handling.</li> <li>- 600-ohm impedance for special studio applications. Not for portable use.</li> <li>- Frequency range: 15 Hz to 20 kHz.</li> </ul>	<ul style="list-style-type: none"> <li>- <i>Variation</i> XXL speakers for ultimate accuracy. Crisp sound even at high volume levels.</li> <li>- High efficiency and wide dynamic range, a good choice for portable use.</li> <li>- Single, <i>plug-in, easily replaceable cable</i> with mini-XLR connector.</li> <li>- Frequency range: 15 Hz</li> </ul>	<ul style="list-style-type: none"> <li>- Diffuse-field equalization, meets stringent IRT (German Institute for Radio Technology) standards.</li> <li>- Single cable for ease of handling.</li> <li>- 600-ohm impedance for special studio applications.</li> <li>- Frequency range: 15 Hz to 20 kHz.</li> </ul>

For technical explanations, see page 22.

# HI-FI BASIC

## Press clippings

**TEST** 3/02  
**Sound: 1.3**  
**Comfort: 1.5**  
**Test score: 1.4**  
**Price/performance: excellent**  
**Ranking: upper class**

**TEST** **SoundFun** 7/01  
 "Good headphones for every conceivable application."  
**Score: 1-**

**TEST** 2/00  
**HI-FI 2.0**  
**Test** **Headphones** **9/9**

**TEST** **AUDIO** 9/02  
**Ranking**  
 "... I loved their crisp and untrivially lively sound. A powerful, yet detailed bass range was their strong point."  
**BEST BUY**

**TEST** **SoundFun** 7/01  
 "Good headphones with a small price tag."  
**Score: 1-**

**TEST** **SOLO** 6/00  
 + powerful output  
 + good workmanship

**TEST** **AUDIO** 10/99  
**Price/performance: excellent**

k 66

k 55



k 44

k 55

k 66

Looking for cost-efficient headphones for many different applications? Look no further. The *k 44* is a true all-round performer with solid bass and clean highs at a value price.

Some styles of music wouldn't work without a solid, low-down, gutsy bass range. That's exactly what the large 1.6-in. (40-mm) "Turbo-bass" speakers of the *k 55* deliver, along with accurate highs.

Reviewers have called the *k 66* a best buy. Their clear sound provides great listening fun at an incredibly low price.

## Fabulous sound within reach.

<p><i>k 44</i></p> <p>Hardwired stereo headphones with high-power speakers</p>	<p><i>k 55</i></p> <p>Hardwired stereo headphones with Turbo Bass speakers</p>	<p><i>k 66</i></p> <p>Hardwired stereo headphones with Natural Sound speakers</p>
<p>- Proven AKG self-adjusting headband, leatherette ear pads, and gimbal suspension for excellent comfort.</p> <p>- Exceptional price/performance.</p>		
<p>- Closed-back, supra-aural earphones.</p> <p>- Extremely light.</p> <p>- Comfortable single cable (2.5 m (8 ft.) long).</p> <p>- Powerful sound with punchy bass and clear highs.</p> <p>- Frequency range: 18 Hz to 20 kHz.</p>	<p>- Closed-back, circum-aural earphones.</p> <p>- Good isolation.</p> <p>- Low weight.</p> <p>- Comfortable single cable (3 m (10 ft.) long).</p> <p>- Powerful sound with punchy bass.</p> <p>- Frequency range: 16 Hz to 20 kHz.</p>	<p>- Semi-open, circum-aural earphones.</p> <p>- Comfortable single cable (3 m (10 ft.) long).</p> <p>- Airy sound for great listening fun.</p> <p>- Frequency range: 18 Hz to 22 kHz.</p>

For technical explanations, see page 22.

HI-FI  
BASIC

HI-FI  
ALL-ROUND



*k 71* **NEW**

**Refreshingly new:** AKG sound in a feather-weight package at a tempting price. In addition, the *k 71* draw very little current so they are ideal for use with portable equipment.



*k 101* **NEW**

**Delicate as they may look,** the *k 101* deliver a surprisingly punchy, yet highly accurate sound from their new speakers. With their moderate price, the *k 101* is an ideal upgrade from ear buds.



*k 301 xtra* **NEW**

**Looking for superior hi-fi sound?** Love a smooth, finely-detailed sound? High accuracy throughout the audio frequency range? Then the *k 301 xtra* are for you. We are sure the *k 301 xtra* will be the best-selling model in its price bracket with its wide-range sound.

**Featherweight.**

<p><i>k 71</i> Hardwire stereo headphones</p> <p><b>PORTABLE</b></p> <ul style="list-style-type: none"> <li>- Ideal for portable, mini, and micro hi-fi systems (CD/MP3/MD/DVD/multimedia), desktop or notebook computers.</li> <li>- Light, weighing only 140 g (5 oz.).</li> <li>- Semi-open, supra-aural earphones.</li> <li>- Removable, easy-to-clean ear pads.</li> <li>- <i>Self-adjusting headband</i> for perfect comfort.</li> <li>- <i>Hard gold plated jack plug</i> with plug-on adapter.</li> <li>- Frequency range: 20 Hz to 20 kHz</li> </ul>
---

**First love.**

<p><i>k 101</i> Hardwire stereo headphones</p> <p><b>PORTABLE</b></p> <ul style="list-style-type: none"> <li>- Ideal for stationary and portable, mini, and micro hi-fi systems (CD/MP3/MD/DVD/multimedia), for desktop or notebook computers.</li> <li>- Comfortable leatherette ear pads, easy to remove and clean.</li> <li>- <i>Self-adjusting headband</i> for perfect comfort.</li> <li>- <i>Hard gold-plated jack plug</i> with screw-on adapter.</li> </ul>	<p><i>k 301 xtra</i> Hardwire stereo headphones with XXL <i>Varimotion</i> speakers for utmost accuracy</p> <ul style="list-style-type: none"> <li>- Semi-open, circum-aural design.</li> <li>- Leather headband.</li> <li>- Frequency range: 18 Hz to 26 kHz.</li> </ul>
<ul style="list-style-type: none"> <li>- Semi-open, supra-aural design.</li> <li>- Padded headband.</li> <li>- Light, weighing only 160 g (5.6 oz.).</li> <li>- Frequency range: 18 Hz to 22 kHz.</li> </ul>	

*For technical explanations, see page 22.*

## Press clippings

**TEST stereoplay**  
Rankings: 5/02  
Sound: **excellent**  
Price/performance: **excellent**

**TEST AUDIO**  
Ranking: 5/02  
Reviewer opinion: **superb**  
**BEST BUY**

**TEST VIDEO**  
8/02  
Stereo sound: **excellent**  
Multichannel sound: **excellent**  
Comfort: **excellent**  
Price/performance: **excellent**  
VIDEO opinion: **excellent**  
**BEST BUY**

**TEST STEREO** 8/02  
"Optimum headphones for lovers of an analytical, crisp sound"  
Opinion: **superb\*\*\***

The Golden Ear '01  
**AUDIO**  
2<sup>nd</sup> place

**TEST Video Aktiv Digital**  
5/02  
+ very smooth reproduction  
+ accurate, very airy sound  
Timbre: exceptional  
Accuracy: exceptional  
Comfort: excellent  
Opinion: **excellent**



## k 501

If you think that the development of stereo headphones has reached its ceiling, the AKG k 501 will make you change your mind. The undisputed flagship of our reference class and many reviewers' favorite delivers a spacious, airy sound at the high frequencies, which has earned it an excellent reputation among lovers of classical music. Although the physical difference is minimal, it

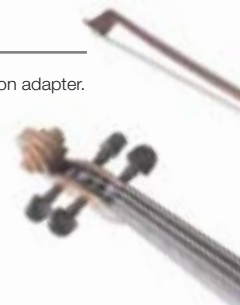
makes an enormous difference for sound purists. The diaphragm is 80 µm thick in its central area for enhanced clarity at high frequencies and thinner around its perimeter for solid, accurate bass response. To further improve the sound, the hand-selected diaphragms are reinforced with trapezoidal corrugations.

## The soloist.

### k 501

Hardwired high-end stereo headphones recommended for audio purists and lovers of classical music

- Revolutionary *Variation diaphragms* for perfect imaging and resolution along with extremely accurate response.
- Open-back, circum-aural earphones.
- Replaceable, acoustically ventilated ear pads for impressive stereo perspective.
- Proven AKG *self-adjusting headband*, leatherette ear pads, and gimbal suspension for excellent comfort.
- Convenient single-sided cable.
- *Hard gold-plated jack plug* with screw-on adapter.
- Frequency range: 16 Hz to 30 kHz.



For technical explanations, see page 22.



## *k 1000*

The only thing the *k 1000* have in common with conventional headphones is that you wear them on your head. They are the reward for the many years AKG engineers spent searching for the ultimate natural, spacious sound.

The *k 1000* is a totally open design. Small leather pads hold the speakers a small distance away from the ears, creating a defined acoustic space.

This is the visible aspect of the design that creates the same natural, binaural perception of sound as a pair of stereo loudspeakers

would. On the inside, too, the *k 1000* are totally different from any other kind of headphones. Driven by dedicated VLD magnet systems, minimum-friction multi-layer diaphragms provide plane-wave sound fields in front of the ears. The sound field is subjected only to the changes and reflections caused by the anatomy of the user's outer ears. This is the most natural way of headphone listening.

Small wonder that the *k 1000* were chosen "Headphones of the Year" more than once.

### Press clippings

#### TEST HiFi Design

Hi-Fi Design Yearbook 2003

"These headphones are actually breathing music; rarely does a pair of headphones create such an accurate bass foundation, and no other model achieves this feat without stifling your ears."

#### TEST stereoplay

"Rankings" 2/02

"Top class."

#### TEST AUDIO

5/03

Ranking

"Top class."

#### TEST AUDIO PROFESSIONAL

6/01

"The K 1000 from AKG have been in production for ten years and still provide exemplary clarity."

## REFERENCE CLASS

## Incredibly natural, spacious sound.

### *k 1000*

Top-of-the-line, fully professional headphone/monitor system

- Top-class reference headphones, ideal monitor headphones for studio use.
- Equivalent to a pair of high quality loudspeakers worn on your head, its speakers "float" in front of the ears.
- Totally open design using minimum-friction multi-layer diaphragms and VLD (Ventilated Linear Dynamic) magnet systems for binaural sound.
- Leather pads keep speakers at a defined distance from the ears, and retractable support pads allow for individual adjustment to every head shape.
- Proven *AKG self-adjusting headband* and swiveling earphones (for adjusting the angle between speakers and ears) ensure excellent comfort.
- Each *k 1000* system is individually tested and numbered, and comes in a wooden box.
- Connecting cable with 4-pin XLR connector and stripped-and-tinned leads for connection to the loudspeaker terminals of your amplifier/receiver.
- Frequency range: 30 Hz to 25 kHz.

FEATURES	HEADPHONES			SURROUND			WIRELESS BASIC			WIRELESS DESIGN			TV WIRELESS		TV HARDWIRE	HI-FI STUDIO	
	<i>hearo</i> 777 QUADRA DELUXE	<i>hearo</i> 888 DIGITAL	<i>hearo</i> 999 AUDIOS- PHERE II	<i>k 311</i> <i>ir</i>	<i>k 105</i> <i>uhf</i>	<i>k 306</i> <i>afc</i>	<i>k 406</i> <i>afc</i>	<i>k 506</i> <i>afc</i>	<i>balance</i> <i>k 122</i> <i>ir</i>	<i>balance</i> <i>k 216</i> <i>afc</i>	<i>k 71</i> <i>tv</i>	<i>k 171</i> <i>studio</i>	<i>k 271</i> <i>studio</i>				
Headphones weight (without cable)	320	350	350	230	220	180	180	320	60	58	140	200	240				
Transmitter weight (g)	1300	560	590	260	130	275	275	315	156	179							
Sensitivity (db/mW, dBV*)											100*	94, 107*	91, 104*				
Max. sound pressure level (dB)	125	104	104	110	115	103	105	107	115	115							
Audio bandwidth (Hz to kHz)	18-24	18-24	18-24	20-22	18-20	20-22	20-24	18-24	30-18	30-18	20-20	18-26	16-28				
Power handling capability (mW)											200	200	200				
Rated impedance (ohms)	55	55	55	32	32	19	19	55	32	32	19	55	55				
Carrier frequency (MHz)	864	864	864	2,3/2,8	864	864	864	864	2,3/2,8	864							
Auto-tuning function																	
Digital transmission																	
IVA processing																	
Dolby Surround Pro-Logic decoder																	
LOGIC7 decoder																	
Dolby Digital decoder																	
VMAx																	
Convertible jack plug (mini to 1/4")																	
Replaceable ear pads																	
Patented self-adjusting headband																	
Exclusive leather headband																	
Automatic on/off switch																	
Swiveling earphones																	
Acoustic ventilation for natural sound																	
Unbreakable metal arches																	
99.99% oxygen-free single cable (length in m)											6	3	3				
Hard gold plated jack plug and contacts																	
Hard gold plated 4-pin XLR connector																	
Cable with 4-pin XLR and stripped-and-tinned leads for direct connection to loudspeaker terminals																	
Plug-in cable on headphones																	
Computer optimized transducers and diaphragms																	
Patented Varimotion diaphragms																	
Minimum-friction multilayer diaphragms with VLD (Ventilated Linear Dynamic) magnet systems																	
Open-back dynamic earphones																	
Semi-open dynamic earphones																	
Closed dynamic earphones																	
NdFe magnets																	
Suited for (SA)CD, DVD(A), MD, DAT																	
Suited for use with portable equipment																	
Suited for use with desktop or notebook computers																	
Battery life (hours)	20	5	5	12	10	10	20	20	5	4							
Approx. max. range (m)	100	50	50	10	100	100	100	100	13	100							
Price (recommended retail – EUR)	199,-	798,-	998,-	91,20	99,-	119,-	139,-	169,-	185,-	185,-	44,90	139,-	179,-				

## AKG WMS 40 Wireless Microphone System

### WMS 40 AEROBICS SYSTEM

- C 444 L headset
- PT 40 bodypack transmitter
- SR 40 receiver
- CB 40 neoprene bag



### WMS 40 HANDHELD SYSTEM

- HT 40 handheld transmitter with D 880 microphone element
- SR 40 receiver



### WMS 40 BODYPACK SYSTEM

- PT 40 bodypack transmitter
- SR 40 receiver
- MK GL guitar cable



# SPECIFICATIONS

HI-FI STUDIO					HI-FI BASIC				HI-FI ALL-ROUND			HI-FI HIGH-END	
<i>k 141</i> monitor	<i>k 141</i> studio	<i>k 240</i> monitor	<i>k 240</i> studio	<i>k 240</i> df studio monitor	<i>k 44</i>	<i>k 55</i>	<i>k 66</i>	<i>k 71</i>	<i>k 101</i>	<i>k 301</i> xtra	<i>k 501</i>	<i>k 1000</i>	
225	225	240	240	240	190	210	210	140	160	245	230	270	
98	101, 114*	88	91, 104*	88	115*	114*	112*	100*	101*	102*	94	74	
20-20	18-24	15-20	15-25	15-20	18-20	16-20	18-22	20-22	18-22	18-26	16-30	30-25	
200	200	200	200	200	200	200	200	200	200	200	200	1000	
600	55	600	55	600	32	32	32	19	19	55	120	120	
3	3	3	3	3	2,5	3	3	3	3	3	3	3	
												"2,5 Y-Kabel"	
89,-	119,-	109,-	139,-	129,-	29,90	34,90	44,90	39,90	64,90	129,-	199,-	798,-	

## PROCESSOR

*hearo 999* AUDIOSPHERE  
DIGITAL SURROUND PROCESSOR



Audio inputs: Analog: 2 x RCA, Digital: 1 x optical, 1 x coaxial (selectable)

Audio outputs (processor controlled): L/R RCA jacks, 1 x 1/4" TRS headphone output jack

Digital signal processor: 24-bit, 150 MIPS

Digital/analog converter: 20-bit

Sampling rate converter: 44.1 kHz, 48 kHz

Audio bandwidth: entire audible frequency range

Power supply: 12 VDC, 800 mA secondary

Connecting cables: RCA to RCA stereo cable, RCA to mini jack stereo cable, optical digital cable (1.5 m long)

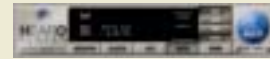
Stereo adapter: mini to 1/4" jack

Net weight: 550 g

Recommended retail price: EUR 459

## SOFTWARE

*hearo player* **NEW**  
SURROUND SOFTWARE PLUG-IN



Available for downloading from the AKG website:

[www.ake.com/hearoplayer](http://www.ake.com/hearoplayer)

Minimum 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: min. 450 MHz (Pentium/AMD) (1,600 MHz, Pentium III recommended)

RAM: 128 MB (256 MB recommended)

Sound board: 16-bit

Monitor: Super VGA (800 x 600) or higher

Headphones: all stereo headphones (AKG *k 101*, AKG *k 301xtra* recommended)

Recommended retail price: EUR 9.90

## WMS 40 MINIATURE GUITAR SYSTEM

- GB 40 guitarbug
- PR 40 receiver
- cable
- Microphone bag



# WMS 40

ULTRA HIGH FREQUENCY



**Microphones - Headphones - Wireless Microphones - Wireless Headphones - Headsets - Electroacoustical Components**

**AKG Acoustics GmbH**  
Lemböckgasse 21-25, P.O.B. 158, A-1230 Vienna/AUSTRIA, Tel: (+43 1) 86 654-0\*, Fax: (+43 1) 86 654-7516, www.akg.com, e-mail: sales@akg.com  
Hotline: (+43 676) 83200 888, hotline@akg.com

 A Harman International Company

**AKG Acoustics GmbH**  
Bodenseestraße 228, D-81243 München/GERMANY, Tel: (+49 89) 87 16-0, Fax: (+49 89) 87 16-200, www.akg-acoustics.de, e-mail: info@akg-acoustics.de  
Hotline: (+49 89) 87 16-22 50, hotlinede@akg.com

**AKG ACOUSTICS, U.S.**  
914 Airpark Center Drive, Nashville, TN 37217, U.S.A., Tel: (+1 615) 620-3800, Fax: (+1 615) 620-3875, www.akgusa.com, e-mail: akgusa@harman.com

For other products and distributors worldwide see our website: [www.akg.com](http://www.akg.com)

Specifications subject to change without notice.

Printed in Austria.

08/03/PROA 1463





## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>