# TICS

# AKG ACOUSTICS AKG ACOUSTICS

including WMS 40 microtools

**WIRELESS MICROPHONE** SYSTEM

tions		OD 40	OD 40	NEW!		5	4B		NEWI		
ifica		SR 40	SR 40 diversity	Portable Receiver	GB 40 guitarbug	MP 40 micropen	\$0 40 snapon transmitter	HT 40 Handheld Transmitte	TM 40	PT40 Bodypack Transmitter	CU 40 chargingunit
pecifi	Carrier frequency range	710 to 865 MHz	710 to 865 MHz	710 to 865 MHz	710 to 865 MHz	710 to 865 MHz	710 to 865 MHz	710 to 865 MHz	710 to 865 MHz	710 to 865 MHz	Charginguint
S	Audio bandwidth	40 to 20,000 Hz	40 to 20,000 Hz	40 to 20,000 Hz	40 to 20,000 Hz	40 to 20,000 Hz	40 to 20,000 Hz	40 to 20,000 Hz	40 to 20,000 Hz	40 to 20,000 Hz	Charging current:
	THD at 1 kHz	typically 0.8%	typically 0.8%	typically 0.8%	typically 0.8%	typically 0.8%	typically 0.8%	typically 0.8%	typically 0.8%	typically 0.8%	550 mA typ. Charging time:
	Signal/ noise ratio	typically 103 dB(A)	typically 103 dB(A)	typically 103 dB(A)	typically 103 dB(A)	typically 103 dB(A)	typically 103 dB(A)	typically 103 dB(A)	typically 103 dB(A)	typically 103 dB(A)	1 hour max. Suited for:
	RF output				typically 5 mW (ERP)	typically 5 mW (ERP)	typically 5 mW (ERP)	typically 10 mW (ERP)	typically 5 mW (ERP)	typically 10 mW (ERP)	GB 40 MP40
	Power requirement		120/230 VAC,50/60 Hz; 95 ±15 mA	2 x 1.5 V AAA size batteries	1 x 1.5 V AAA size battery	1 x 1.5 V AAA size battery	1 x 1.5 V AAA size battery	2 x 1.5 V AA size batteries	1 x 1.5 V AA size batteries	2 x 1.5 V AA size batteries	SO40 PR40 diversity
	Battery life			>8 h (dry batteries), >6 h (rechargeable batt.)	<11 h (dry battery), <6 h (rechargeable batt.)	<10 h (dry battery), <5 h (rechargeable batt.)	<10 h (dry battery), <5 h (rechargeable batt.)	<35 h (dry batteries)	<10 h (dry battery), <6 h (rechargeable batt.)	<35 h (dry batteries)	TM40 diversity
		balanced XLR and unbalanced 1/4" jack, adjustable from mic to line level, 2 V rms max.	balanced XLR and unbalanced 1/4" jack, adjustable from mic to line level, 2 V rms max.	unbalanced line level (tip): -6 dBm (10 Kohms), head- phones output (ring): 18 mW typically (15 ohms); 13 mW typically (10 ohms)							
	Size (WxDxH)	235 x 142 x 43	200 x 135 x 42	77 x 55 x 15	76 x 20 x 28	20 x 25 x 145	22 x 30 x 98	258 x 40 dia. mm	125 x 126 dia.mm	64 x 22 x 96	100 x 58 x 135
	Net weight (without batteries)	470 g	470 g	60 g	28 g	36 g	36 g	245 g	30 g	76 g	approx. 400 g
		2 side panels, 12 VDC power supply, screw- driver	12 VDC power supply	belt clip, audio connect- ing cable, Velcro strips for camera mounting, 2 AAA size batteries	long adapter plug, black battery compartment cover, 2 Velcro strips, 1 AAA size battery	necklace cord, black replacement clip, 1 AAA size battery	black battery compartment cover, 1 AAA size battery	stand adapter, black color code clip, 2 AA size batteries	charging adapter, colored battery com- partment cover, 1 AAA size battery	belt clip, 2 AA size batteries	12 VDC power supply





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

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For detailed information on wireless and other products from AKG contact your dealer or visit:







WMS40 microtools

**WIRELESS MICROPHONE SYSTEM** 







# WMS 40 UHF Wireless Microphone System

## AKG.WIRELESS.UHF



## Unlimited Freedom.

Good news for vocalists and moderators, guitarists and brass players, lecturers and dancers! Even bass players have no excuse for remaining motionless at the back of the stage any more.

Forget all prejudice against wireless systems! The WMS 40 is absolutely reliable, really easy to use, and incredibly cost efficient.

Most importantly, you will get the same famous AKG sound as you would through a hard-wired microphone.

This brochure describes many different applications to make it easy for you to put together the optimum system for your needs. Select a transmitter, a receiver, hook up your system, and play!

Have fun and thrill your audience with the sound of your WMS 40 UHF Wireless **Microphone System!** Your AKG Team.

For more information visit www.akg.com

#### WMS40 UHF



Winner of the readers' poll in the Wireless Microphones category. Tastenwelt 2001

#### WMS40 UHF

"Bravo! AKG engineers actually came up with a little masterpiece. This extremely cost-efficient UHF system is far better than I had expected. "Price/performance: excellent. Sound Check 5/'02 (Germany)

#### WMS40 UHF



Tec Award Nominee 2003 in the Category of Wireless Technology

#### WMS40 UHF



Winner of the reader's poll in the Wireless Microphones category Sound Check 2003 (Germany)

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# Lead / backing vocals

## AKG.WIRELESS.UHF



#### For vocalists.

Your voice will cut through the mix LOUD AND CLEAR when you use the HT 40 transmitter. Its capsule is the proven EMOTION **SERIES D 880 microphone** element.

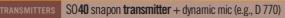


#### **Receivers recommended by AKG**

SR40 diversity









# For performers who need absolute

#### TRANSMITTERS HT40 Handheld Transmitter

• High quality D 880 element for crystal clear vocal sound.

("... for vocalists, the D 880 is a viable alternative to the classic SM 58.. Sound Check 2/'01)



Operates for up to 35 hours off the same pair of AA size batteries.

- · Lowest operating cost in its class.
- DC/DC converter maintains constant transmission quality throughout battery life.
- Integrated antenna for optimized RF output and perfect transmission quality.
- Ease of use; controls include on/mute/off switch and battery status
- · Soft-touch finish for reduced susceptibility to handling noise.
- Replaceable color code clip for channel identification.

#### **TECH NOTE**

**Working Distance and Proximity Effect** 



Your voice will sound bigger and fuller, the closer

more distant sound as the microphone picks up

#### **Alternative TRANSMITTERS**

Transmitters recommended by AKG TRANSMITTERS HT40 Handheld Transmitter

TRANSMITTERS PT 40 Bodypack Transmitter + C 420 L head-worn mic





This transmitter turns any wired





# **Lead / backing vocals**

## AKG.WIRELESS.UHF



High Quality Wireless Transmitter Module

PURE REVOLUTION –
The TM 40 connects
to a variety of AKG's
famous stage mics
– for you to be unconnected.



ANSMITTER MODULE TM 40



- The TM 40 connects to EMOTION I TRIPOWER Series microphones D 3700™, D 880™ and C 900™
- Lowest operating cost in its class
- Input gain control for optimum matching to microphone output level
- ON/MUTE/OFF switch and battery status indicator for easy setup.





Integrated charging contacts for easy use of rechargeable batteries



Input gain control for optimum modu-



ON/MUTE/OFF switch and battery status LED



Replaceable color



## **Wireless transmitter**

## AKG.WIRELESS.UHF



#### A transmitter for your favorite mic.

#### **SMALL BUT INGENIOUS.**

Probably the smallest wireless transmitter around today, the SO 40 turns your favorite microphone into a wireless mic that sounds exactly the same as it does with a cable.





CU 40 chargingunit: available from AKG only. easy battery charging

microphone is an ingenious idea.  $\dots$  With the vocal mic, I found no difference at all (Sound Check 5/'02)



## SO40 snapon transmitter

- The SO 40 transmitter turns every hardwired dynamic microphone into a wireless microphone.
- Maintains the sound of your microphone - your mic sounds the same as if you were using a wired microphone.
- Optional CU 40 battery chargingunit reduces operating cost to a minimum.
- Efficient DC/DC converter maintains constant transmission quality throughout battery life.
- Glass fiber reinforced body for extremely low weight (1.3 oz.) and high durability.
- Integrated antenna for easy handling and compact size.
- Ease of use; controls include on/mute/off switch and battery status
- Input gain control for optimum modulation.
- Replaceable color coded battery compartment cover for easy frequency identification.

#### Select a receiver and a transmitter.

#### **Receivers recommended by AKG**

# RECEIVERS RECEIVERS SR 40 diversity RECEIVERS PR 40 diversity

Selecting

receivers >> Page 11

#### Transmitters recommended by AKG

TRANSMITTER SO 40 snapon transmitter + dynamic mic



#### Other recommendations

powered condenser microphone for many different applications





## **TECH NOTE**

#### How to maintain the sound quality of your microphone



Dust, perspiration, lipstick, dramatically deteriorate any all you need to do to maintain

excellent sound for many years is clean your mic

- methylated spirits or alcohol to clean the microphone body and the wire-mesh cap.
- 70% isopropyl alcohol or soap suds to wash the windscreen and allow it to dry overnight. (An instruction sheet is included in every AKG microphone package.)



# **Instrument** miking

## AKG.WIRELESS.UHF



#### **Acoustic instruments**

**DIFFERENT INSTRUMENTS** need different microphones. **AKG MicroMics cover a** wide range of instruments. and all MicroMics connect to the PT 40 Bodypack Transmitter.

"An absolute sensation, though, is the fact that the current consumption of both the bodypack and handheld transmitters is so low that a pair of standard AA size batteries should last for approximately 35 hours. (Gitarre & Bass 6/'00)

# PT40 Bodypack

- Versatile UHF bodypack transmitter for many different applications.
- Professional mini XLR connector accepts all AKG MicroMic Series microphones.
- Operates for up to 35 hours off the same pair of AA size batteries.
- Lowest operating cost in its class.
- Rugged plastic body.
- · Lightweight.
- Controls include on/mute/off switch, mic/line selector, and battery status

#### Select a receiver and a transmitter.

# **Receivers recommended by AKG** RECEIVERS SR40 diversity PR40 diversity Selecting receivers >> Page 11

#### Transmitters recommended by AKG



## **TECH NOTE**

#### How to set signal levels

TRANSMITTER: Set to line level if connected to instrument or mic level if connected to microphone. Set GAIN fully clockwise. Play or sing as loud as you can and watch the

- If Peak LED flickers red occasionally, level is
- If Peak LED is lit red constantly, turn GAIN down to "flickering point".

#### RECEIVER:

Use console metering to set receiver VOLUME control and listen for distortion.

To minimize noise floor, set transmitter gain as high as possible and receiver volume just high enough to drive console to optimum level.



## **Guitar and bass**

## AKG.WIRELESS.UHF



#### For guitar and bass players.

The GB 40 transmitter mates with every guitar. Just plug the FlexJack into the instrument's output jack.





- "There seems to be no easier way than to
- (Gitarre & Bass 5/'02)
- by guitarists for restricting the dynamic range, the GB 40 gets the audio across in (Tastenwelt 3/'02)
- sound, the GB 40 does a great job, too. Try as I might, I could hear no difference (Tools 2/'02)

#### Select a receiver and a transmitter.

#### **Receivers recommended by AKG**







#### Transmitters recommended by AKG





Miniature Guitar System



The smallest wireless guitar system in the world.

- 1 PR **40** miniature receiver
- 1 GB 40 miniature

## GB40 guitarbug

• The "FlexJack" extendable swivel jack plug connects the GB 40 to any guitar







- Frequency response optimized for guitar and bass.
- Optional CU 40 battery charger for extremely low operating cost.
- DC/DC converter for constant transmission quality throughout battery life.

Integrated charging contacts and optional charger for easy use of rechargeable batteries.

- Extremely easy to use.
- ON/MUTE/OFF switch and battery status indicator for easy setup.
- Input gain control for optimum modulation.
- Replaceable color coded battery compartment cover for easy frequency identification.

#### **TECH NOTE**

#### Make the GB 40 and PR 40 work for you!



Use the PR 40 to reduce stationary receiver to the

portable receiver on or near the pedalboard and

- PA 40 power adapter.
- battery charger. The CU40 charger that also



# **Aerobics/sports**

## AKG.WIRELESS.UHF



#### For trainers.

FITS PERFECTLY during any exercise. Even perspiration will not affect this wireless head-worn mic system.

... definite winner of the price/performance category. ... no doubt an excellent head-worn microphone.' (TOOLS 3/'02)

## C 444 L head-worn microphone

- 100% AKG sound.
- Extremely easy to use.
- Secure and comfortable fit.
- Moisture shield protects the microphone from perspiration.
- High ambient noise rejection.

#### PT40 Bodypack



Operates for up to 35 hours off the same pair of AA size batteries

- Lowest operating cost in its class.
- DC/DC converter maintains constant transmission quality throughout battery life.
- Rugged plastic body.
- Lightweight.
- Controls include on/mute/off switch, mic/line selector, and battery status

#### Select a receiver and a transmitter.

#### **Receivers recommended by AKG**



## receivers >> Page 11

#### Transmitter recommended by AKG



#### **Aerobics System includes**

CB 40 light, padded neoprene bag protecting the transmitter from perspiration and impact.



## **TECH NOTE**

#### Perspiration may cause microphones or transmitters to fail



- Do not remove the small plastic shield from the C 444 L microphone. The shield prevents moisture from penetrating into the transducer.
- Always use the transmitter with the CB 40 neoprene bag included with the Aerobics System.
- Make sure the connector and antenna point to the ground to keep out moisture.
- If you expect to perspire heavily, slip the supplied pop screen onto the microphone, wipe the microphone dry during breaks, and disconnect the microphone from the transmitter after use.
- After use, allow the bag, transmitter, and microphone to dry before placing them in the packaging. This extends the useful life of the system.



## **Presentation**

## AKG.WIRELESS.UHF



For lecturers, moderators, and trainers.

NO BIGGER THAN A BALL-POINT PEN, the MP 40 is a transmitter and an integrated microphone. Just put it in a convenient pocket and get your message across.





CU **40** charging**unit**: available from AKG only. easy battery charging

less top or formal evening gown. The beauty of the design, however, is the (Sound Check 5/'02)



#### MP 40 micropen

- Clever, simple wireless microphone for lecturers, moderators, trainers.
- Integrated, detachable C 407 omnidirectional lavalier microphone for excellent intelligibility.
- Detachable mic can be removed from the transmitter and mounted closer to the user's mouth for better noise rejection in noisy environments.
- Integrated antenna
- Optional CU 40 battery charger reduces operating cost to a minimum.
- DC/DC converter maintains constant transmission quality throughout battery life.
- Ease of use; controls include on/mute/off switch and battery status LED.
- Input gain control.
- Replaceable color code element for easy frequency identification.
- Complete with necklace cord.

#### Select a receiver and a transmitter.

#### **Receivers recommended by AKG**



Selecting receivers >> Page 11

#### Transmitters recommended by AKG

MP40 micropen **Alternative TRANSMITTERS:** 

TRANSMITTERS HT 40 Handheld Transmitter





For those who prefer using





## **TECH NOTE**

#### How to prevent feedback

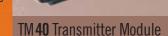




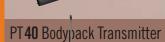
Wireless Microphone System

#### **TRANSMITTERS** HT 40 Handheld Transmitter



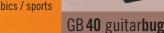


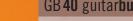




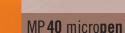


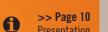




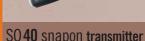












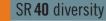


















**ORIGINAL** AKG sound.



Up to 35 hours of continuous operation off a single set of batteries means lowest operating cost in this class (HT40/PT40).

Modular wireless



system provides optimum transmitter/receiver combination for every application.



CU 40 chargingunit for easy, costefficient battery charging (for microtools and PR 40 only).



Ease of use and clear metering.



ft-touch enamel



Swiveling jack plug with extension plug matching all electric guitars and basses B40 guitarbug).



Detachable microphone (MP40 micropen)



Varimotion transducer for extremely clean sound (HT40).

Patented



rofessional XLR and 1/4" outputs.

# Selected Reviews

#### WMS40 microtools

excellent Piece/performance: Sound Check 5/'02 (Germany)

#### WMS40 microtools



novative products.

#### WMS40 microtools

"Better than anything else! From 40 to 20,000 Hz, the WMS 40 system provides the same perfect audio as a cable. ... Normally, each microphone maker creates its own 'wireless standard'. AKG however, justifiably proud of its own microphone elements. has a broader vision and provides a perfect, versatile solution called the **WMS Series:** 

.. ease of use, good performance, very acceptable price." Tools 2/'02 (Germany)

#### WMS40 UHF

"An absolute scoop, though, is the low current consumption of the bodypack and handheld transmitters that will work perfectly for approximately 35 hours off a pair of standard AA size Gitarre & Bass 6/'00 (Germany)

"Congratulations, AKG! The uniquely

affordable WMS 40 is more reliable and

sounds better than anyone would have

"Although the WMS 40 is one of the

Tastenwelt 4/'00 (Germany)

MusicMaker 09/'01 (UK)

#### WMS40 UHF



Editors' award for

#### WMS40 UHF

lower priced systems in the AKG wireless line, it maintains the high level of quality, sound, ruggedness, and reliability that AKG is world-famous for. The HT 40 handheld microphone transmitter with its futuristic styling feels pleasant to hold even after a long period of time. On the whole, the WMS 40 Series from AKG is the first choice for applications where both quality and usability are important

#### WMS40 microtools

"The microtools recommend themselves as a flexible and easy-to-use system: Hook it up, insert batteries, and play. The front panel is laid out clearly to avoid confusion. Three LEDs provide all essential information. The transmitter, receiver, and charger add up to a very useful system at an affordable price." Tastenwelt 3/'02 (Germany)

#### WMS40 UHF

"The AKG system worked right away, disproving all rumors that wireless systems are a hassle. The audio is of high quality, too and there is no audible distortion or coloration. ... I never managed to throw the SR 40 off its halance Akustik Gitarre 4/'00 (Germany)

Market leader in its class.

Receivers

Relying on a proven design, the SR 40 is a reliable, easyto-use, cost-efficient single-antenna receiver. It is AKG's hottest selling wireless component and highly praised within the industry.



## Absolute reliability and clever features.

The "deluxe" model SR 40 diversity is as reliable and easy to use as the proven SR 40, it provides more features. Additional metering, a high quality all-metal case with a new styling, and diversity technology for absolute reliability in the most difficult transmission situations will satisfy the most demanding perfectionist.



## Miniature receiver for unlimited freedom. 3

Small, light, and handy, the PR 40 bodypack receiver ensures unlimited mobility. It is both a convenient tool for guitarists (see Miniature Guitar System on page 8) and an ideal solution for video shootings where the action forbids using a hardwire microphone.



CU **40** charging**unit**: Integrated contacts for available from AKG only. easy battery charging



## PR 40 diversity

- · Glass fiber reinforced body for extremely low weight and high durability.
- "Four-level diversity" antenna management system for reliable reception.
- status LED.
- RF reception indicator LED.
- charging using the optional CU 40 charger.

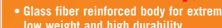
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## SR **40**

- Front-panel mounted, swiveling antenna facilitating rack-mounted operation.
- On/off switch with status LED.
- RF reception indicator LED.
- Adjustable squelch for noise-free
- Professional XLR and 1/4" outputs.
- Frequency color code.
- Easy to mount in any 19" rack using optional rack mount-kit.

## SR 40 diversity

- Two front-panel mounted, swiveling antennas facilitating rack-mounted
- Full metering for easy status monitoring.
- LED metering of audio/peak levels and RF
- signal strength. • Diversity LEDs indicating which antenna is
- active at any time. Professional XLR and 1/4" outputs.
- Automatic squelch.
- High quality all-metal case.
- Frequency color code.
- Easy to mount in any 19" rack using optional rack mount-kit.



- ON/OFF switch with status LED, battery
- Integrated contacts for easy battery
- Audio level LED.

