# AKG.WIRELESS. UHF WIRELESS MICROPHONE SYSTEM

I'm free!

**WMS40 ULTRAHIGH FREQUENCY** 

including WMS 40 microtools

**WIRELESS** MICROPHONE SYSTEM



# Unique AKG Features

# AKG.WIRELESS.UHF



World-famous 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.



Soft-touch enamel finish.



Swiveling jack plug with extension plug matching all electric guitars and basses (GB40 guitarbug).



Detachable microphone (MP40 micropen).



Patented Varimotion transducer for extremely clean sound (HT40).



Professional XLR and 1/4" outputs.

# Selected Reviews

#### WMS40 microtools

Sound: excellent
Piece/performance: 5 4 3 2 1 peak

Sound Check 5/'02 (Germany)

#### WMS40 microtools



Editors' award for innovative products. Tastenwelt 2002 (Germany)

#### 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 batteries." Gitarre & Bass 6/'00 (Germany)

#### WMS40 UHF

"Congratulations, AKG! The uniquely affordable WMS 40 is more reliable and sounds better than anyone would have expected."

Tastenwelt 4/'00 (Germany)

#### WMS40 UHF

"Although the WMS 40 is one of the lower priced system 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 criteria."

#### 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 balance."

Akustik Gitarre 4/'00 (Germany)

# 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

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#### WMS40 UHF



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

#### 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)





# 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. It capsule is the proven EMOTION SERIES D 880 microphone element.



#### Receivers recommended by AKG

RECEIVERS SR 40 diversity



#### Transmitters recommended by AKG

TRANSMITTERS HT40 Handheld Transmitter



#### Alternative TRANSMITTERS

TRANSMITTERS. PT40 Bodypack Transmitter + C 420 L head-worn mic





TRANSMITTERS SO 40 snap on Transmitter + dynamic mic (e.g., D 880)



### 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 LED.
- · Soft-touch finish for reduced susceptibility to handling noise.
- Replaceable color code clip for channel identification.

## TECH NOTE

**Working Distance and Proximity Effect** 





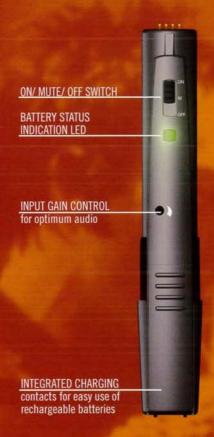
# Lead / backing vocals

# 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.



 The TM 40 connects to **EMOTION I TRIPOWER Series** microphones D3700M, D880M and C 900M

TM 40

· Input gain control for optimum matching to microphone output

- Lowest operating cost in its class
- . Integrating charging contacts for easy use of rechargeable batteries





Integrated charging contacts for easy use of rechargeable batteries



Input gain control for optimum modulation



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.





the vocal mic, I found no difference at all between wireless and hardwire modes. This means the transmitter will in no way



### 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
- 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
- Replaceable color coded battery compartment cover for easy frequency identification.

#### Select a receiver and a transmitter.

### Receivers recommended by AKG



RECEIVERS SR 40 diversity





#### Transmitters recommended by AKG

TRANSMITTER SO 40 snapon Transmitter + dynamic mic

Other recommendations

top-of-the-line dynamic







www.akg.com

### TECH NOTE

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



excellent sound for many years is clean your mic

- · methylated spirits or alcohol to clean the microphone body and the wire-mesh cap.



# **Instrument miking**

# AKG.WIRELESS.UHF

# AKG

### **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 LED.

#### Select a receiver and a transmitter.

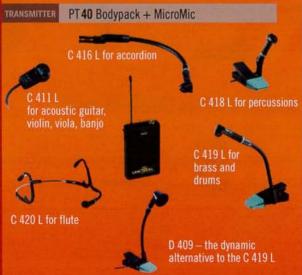
#### Description of the SVO



Selecting

>> Page 11

### Transmitters recommended by AKG



#### www.akg.com

# **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 Peak LED.

- If Peak LED flickers red occasionally, level is
  O.K.
- 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.





range, the GB 40 gets the audio across in its full dynamic splendor."

Try as I might, I could hear no difference between wireless and hardwire modes."

# Select a receiver and a transmitter.

#### Receivers recommended by AKG



RECEIVERS SR 40 diversity





Transmitters recommended by AKG

GB 40 guitarbug **Alternative Transmitter:** 

TRANSMITTERS PT 40 Bodypack Transmitter + MKG/L cable



### GB 40 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 frequend identification.

### TECH NOTE

Make the GB 40 and PR 40 work for you!



Use the PR 40 to reduce

- c) Use a separate supply and the optional PA 40
- d) Place the receiver in the optional CU 40 battery charger. The CU 40 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 LED.

#### Select a receiver and a transmitter

#### Receivers recommended by AKG



### Transmitter recommended by AKG

TRANSMITTER PT 40 Bodypack Transmitter + C 444 L head-worn microphone

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 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.
- 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.





detachable microphone. ... Being an omni mic, the C 407 provides a perfect voice



### 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
- Input gain control.
- · Replaceable color code element for easy frequency identification.
- . Complete with necklace cord.

#### Select a receiver and a transmitter.



RECEIVERS SR 40 diversity





#### Transmitters recommended by AKG

TRANSMITTERS MP 40 micropen **Alternative TRANSMITTERS:** 

TRANSMITTERS HT 40 Handheld Transmitter





TRANSMITTERS PT 40 Bodypack Transmitter + C 444 L head-worn microphone





### TECH NOTE

#### How to prevent feedback





# **Receivers**

# AKG.WIRELESS.UHF





### Market leader in its class.

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.



### 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.



### 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.



### 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
- . Diversity LEDs indicating which antenna is active at any time.
- Professional XLR and 1/4" outputs.
- · High quality all-metal case.
- · Frequency color code.
- · Easy to mount in any 19" rack using optional rack mount-kit.



### Great audio for small video cameras.

The PR 40 diversity has been designed for videographers and any other users who need to move freely from room to room or around large venues.







### PR 40 diversity



- · Glass fiber reinforced body for extremely low weight and high durability.
- · "Four-level diversity" antenna management system for reliable reception.
- . ON/OFF switch with status LED, battery status LED.
- RF reception indicator LED.
- Integrated contacts for easy battery charging using the optional CU 40 charger.
- Audio level LED.



Optional Accessories

	SR <b>40</b>	SP 40 NEW!	NEW! PR 40 diversity	CD 40 }	MD 40	\$040 H	UT 40	NEW!	DIAO	01140
	Receiver	Receiver	Portable Receiver	GB 40 guitarbug	MP40 micropen	snapon Transmitter	HT 40 Handheld Transmitte	TM 40 Transmitter Module	PT 40 Bodypack Transmitter	CU 40 chargingunit
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	6
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
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)	Suited for: GB40
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	MP40 S040
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)	PR40 diversity
Audio outputs	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 Kolims), 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	арргох. 400 g
Standard accessoires	2 side panels, 12 VDG 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, I 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	beit clip, 2 AA size batteries	12 VDC power supply



CU 40 chargingunit

CU 40 chargingunit Battery charger. Works perfectly with WMS 40 microtools and PR 40 diversity portable receiver. Gentle on the environment and your budget. No need to remove batteries for charging.

CH 40 Carrying case

CB 40 Neoprene bag for PT 40 Bodypack Transmitter (included with Aerobics System)

PA 40 Remote powering adapter for PR 40. The adapter fits into the battery compartment of the PR40 receiver and allows the receiver to be powered from an external supply (e.g., AC power supply or camcorder supply output). The PA 40 operates on a supply voltage of 5 to 18 V

RMU40 Rack mounting kit for installing one SR40 diversity in a 19" rack

RMU60 Rack mounting kit for installing one or two SR40s in a 19" rack

ST 102 A Floor stand for HT 40 Handheld Transmitter

MK 9/10 10-m (30-ft.), 2-conductor shielded cable w/male and female XLR connectors

W 880 Windscreen for HT40 Handheld Transmitter

W 90 Windscreen for MP40 micropen

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

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Specifications subject to change without notice.



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