

AKG WMS 40 PRO FOR VOCALS

MICROPHONE SYSTEMS FOR LEAD AND BACKING VOCALS

The HT 40 PRO handheld transmitter is an excellent choice for both handheld and stand-mounted use. Handheld microphones are also suited for applications where more than one person will talk into the microphone, such as talk shows or interviews with people in the audience.

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We've put together several complete systems from the various WMS 40 PRO lines to provide a perfect solution for every application that installs and sets up in no time. The challenge was to provide a system for every vocal application. The WMS 40 PRO vocal systems are the perfect answer.

The FLEXX vocal system comprising an HT 40 FLEXX and SR 40 FLEXX is probably the most powerful wireless system in its price bracket. Three selectable frequencies, diversity reception, and multichannel capability up to nine* channels are features typical of more costly professional systems.

The DUAL vocal system including the revolutionary SR 40 DUAL receiver and two HT 40 PRO handheld transmitters is the ideal choice for vocal duos who want to get going quickly with a minimum of equipment.

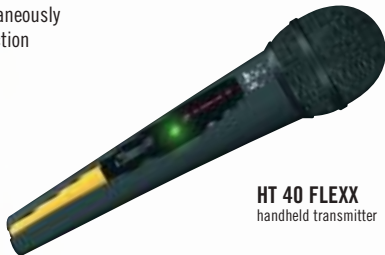
The SINGLE vocal system is a basic fixed-frequency, single-channel setup. Unpack the transmitter and receiver, connect, and play. With its compact, rack-mountable receiver, the AKG WMS 40 PRO is an easy-to-use, convenient wireless system, and once you tried it you won't want to do without it anymore.

VOCAL SET **FLEXX**

Maximum flexibility

Three selectable frequencies for interference-free reception, input gain control on transmitter.

- Single channel with three selectable frequencies
- Diversity receiver
- Adjustable squelch
- Multichannel capability for using up to nine* channels simultaneously
- Rugged construction



HT 40 FLEXX
handheld transmitter



SR 40 FLEXX
receiver

VOCAL SET **DUAL**

Dual-channel receiver, low operating cost

The cost efficient way to use two transmitters simultaneously.

- Two fixed-frequency receivers in a single unit
- Metal case
- Miniature transmitters
- Single-battery powering
- Multichannel capability for using up to seven* channels simultaneously



2 x HT 40 PRO
handheld transmitter

SR 40 DUAL
receiver



Rack mounting

All SR 40 PRO receivers can be used either free-standing or rack mounted. An optional rack mounting kit allows you to install one or two receivers quickly and easily on a single level of any 19" rack. The half-rack, 1 U case lets you mount the receivers for a complete six-piece band in just 3 U of rack space.





Angle of incidence

To get a well-balanced, natural sound, sing to one side of the microphone or above and across the microphone's top (left). If you sing directly into the microphone, it will not only pick up excessive breath noise but also overemphasize sibilants (right).



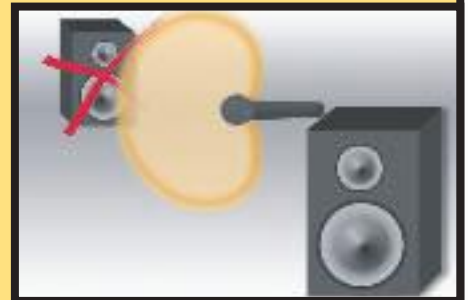
Holding the transmitter

Be sure never to cover the lower half of the wire-mesh cap with your hand. If you do, the microphone element's polar pattern will change from cardioid to omnidirectional. In a concert hall, this change in the pickup pattern will significantly lower the usable gain before feedback. Also, do not grasp the transmitter body at the lower end, where your hand would cover the integrated antenna and weaken the radio signal.



Working distance and proximity effect

Basically, your voice will sound the bigger and mellow, the closer you hold the microphone to your lips. Moving away from the microphone will produce a more reverberant, more distant sound as the microphone will pick more of the room's reverberation. Proximity effect is a more or less dramatic boost of low frequencies that occurs when you sing into the microphone from less than 2 inches. It gives more "body" to your voice and a sexy, bass-heavy sound.



Feedback

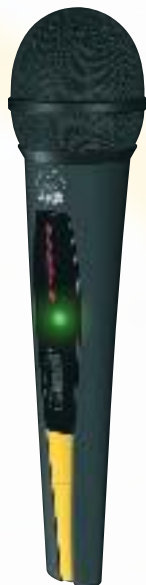
To increase usable gain before feedback, the microphone on the HT 40 has a supercardioid polar pattern. This means the microphone is most sensitive to sounds arriving from in front of it (your voice) while hardly responding to sounds arriving from the sides or rear (from monitor speakers for instance). To maximize gain before feedback, never point any microphone directly at a speaker. The safest place for a microphone is usually behind the FOH speakers.

VOCAL SET **SINGLE**

Plug and play

The perfect choice for a single wireless microphone channel. Unpack and get going.

- Single fixed frequency
- Metal case
- Miniature transmitter
- Single-battery powering
- Multichannel capability for using up to seven* channels simultaneously



HT 40 PRO
handheld transmitter



SR 40 SINGLE
receiver



Microphone cleaning and maintenance

Microphones, like any other instrument, need regular cleaning to maintain clarity and intelligibility. As a microphone is being used, its foam pop screen and front grill collect dirt particles that may ultimately clog the acoustically transparent foam cells. Just unscrew the front grill and remove the internal windscreen. Soak the windscreen in sudsy water for a night, then allow it to dry completely. Clean the front grill with isopropyl alcohol.



AKG WMS 40 PRO FOR INSTRUMENTS

RADIO LINKS FOR PORTABLE INSTRUMENTS

More and more musicians prefer wireless microphones, so AKG was asked to create a wireless system specifically for "minimally invasive" miking of acoustic instruments with no on-board pickup. The proven AKG MicroMic Series microphones in conjunction with the AKG PT 40 PRO bodypack transmitter and SR 40 PRO portable receiver provide a solution offering exceptional quality, price/performance, and flexibility. Since the high quality MicroMic Series microphone capsules require high-performance production

lines they are made at the AKG factory in Vienna, Austria. Expensive UHF technology has been optimized for the specific requirements of wireless systems for smaller venues such as clubs, rehearsal rooms, or local community centers.

The WMS 40 PRO provides fully professional audio and UHF transmission quality adjusted to the needs of musicians on a budget. The MicroMic Series includes a wide choice of small, light microphones designed for easy mounting on various

instruments and liberates musicians from the constraints imposed by stand-mounted microphones.

Of course, all MicroMics will leave no trace on the instrument when you remove them. Using an AKG WMS 40 PRO wireless system with AKG MicroMic Series microphones is an optimum solution for acoustic guitar, violin, banjo, zither, accordion, various wind instruments, and many other applications. Each instrument system includes an MKG L cable.

INSTRUMENTAL SET **FLEXX**

Maximum flexibility

Three selectable frequencies for interference-free reception, input gain control on transmitter.

- Single channel with three selectable frequencies
- Diversity receiver
- Adjustable squelch
- Multichannel capability for using up to nine* channels simultaneously
- Rugged construction

PT 40 FLEXX
bodypack transmitter



SR 40 FLEXX
receiver



MKG L cable



Rear panel and battery compartment

Viewing window for checking the battery type.

Frequency and color code label for easy frequency identification in a multichannel system.

Frequency selector for easy tuning to one of the three preset frequencies.

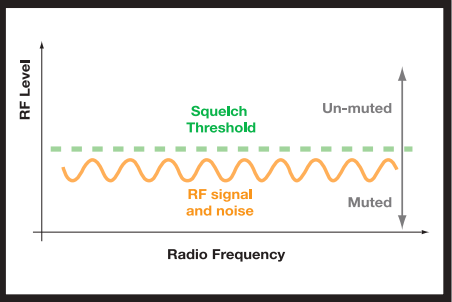
GAIN matches the sensitivity of the transmitter's audio section to the output level of the connected instrument.





Setting the squelch threshold

The job of a squelch circuit is to reduce audible noise. It eliminates noise during pauses in the audio signal by muting the receiver every time the audio level drops below a defined threshold. The SQUELCH control on the receiver sets this threshold. Use the SQUELCH control with care! If the squelch threshold is too high, the squelch will not only cut out noise but mute quiet audio signals as well because the squelch responds to the detected voltage and cannot distinguish between wanted signal and noise. Besides that, a too high squelch threshold also decreases the usable range.



INSTRUMENTAL SET **DUAL**

Dual-channel receiver, low operating cost

The cost efficient way to use two transmitters simultaneously.

- Two fixed-frequency receivers in a single unit
- Metal case
- Miniature transmitters
- Single-battery powering
- Multichannel capability for using up to seven* channels simultaneously



SR 40 DUAL
receiver



2 x PT 40 PRO
bodypack transmitter



2 x MKG L cable

INSTRUMENTAL SET **SINGLE**

Plug and play

The perfect choice for a single wireless microphone channel. Unpack and get going.

- Single fixed frequency
- Metal case
- Miniature transmitter
- Single-battery powering
- Multichannel capability for using up to seven* channels simultaneously



SR 40 SINGLE
receiver



PT 40 PRO
bodypack transmitter



MKG L cable



MicroMic C 411 L pickup

For guitar, violin, viola, banjo, zither, or hammered dulcimer. Fix the pickup near the bridge (left).



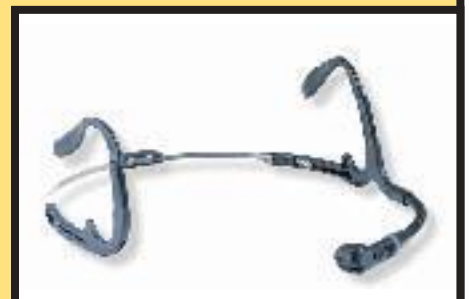
C 419 L instrument MicroMics

For saxophone, clarinet, tubas, trombone, trumpet (right).



C 416 L instrument MicroMic

To mic up an accordion, use two AKG C 416 L with a B 29 L battery supply/mini mixer (left).



C 420 L head-worn MicroMic

For flute and harmonica (right).

For detailed hints on using MicroMics refer to pages 70/71.

AKG WMS 40 PRO FOR PRESENTERS

WIRELESS SYSTEMS FOR INSPIRING LECTURES

The WMS 40 PRO presenter systems have been put together specifically for presentations, lectures, or video recording.

The FLEXX presenter system is a high quality wireless system for cost-conscious lecturers who insist on fail-safe reliability and expandability. Diversity reception, three selectable frequencies, adjustable squelch, and the proverbial AKG audio quality provide interference-free, perfect intelligibility. And if the need arises, the setup can be expanded to a maximum of nine* channels. The heart of the system is the CK 55 L high quality lavalier microphone.

The CK 55 L cardioid lavalier microphone has been optimized for the speech frequency range and has an excellent track record. It is so small it becomes nearly invisible on the user.

The SINGLE system includes this microphone, too. The transmitter and receiver make up a typical fixed-frequency, "plug and play" system that is extremely easy to use. Upgrading at a later date is easy, too: the SINGLE has been designed so you can add up to six* channels to your first channel at any time.

The DUAL setup is a completely new product

bundle optimized for presenters who like to interact with their audiences. Two independent receivers in a single unit will simultaneously process the signals from the C 444 L microphone worn by the presenter and the handheld microphone used by a person from the audience. This is about as convenient, simple, and cost efficient as it gets.

The MP 40 micropen is an ultra-compact microphone that can be used handheld or in lavalier mode remotely from the transmitter. Together with the PR 40 portable receiver, the MP 40 pen-size microphone is probably the smallest ENG system in the world.

PRESENTER SET **FLEXX**

Maximum flexibility

Three selectable frequencies for interference-free reception, input gain control on transmitter.

- Single channel with three selectable frequencies
- Diversity receiver
- Adjustable squelch
- Multichannel capability for using up to nine* channels simultaneously
- Rugged construction

PT 40 FLEXX
bodypack
transmitter



CK 55 L
lavalier microphone



SR 40 FLEXX
receiver



PRESENTER SET **SINGLE**

Plug and play

The perfect choice for a single wireless microphone channel. Unpack and get going.

- Single fixed frequency
- Metal case
- Miniature transmitter
- Single-battery powering
- Multichannel capability for using up to seven* channels simultaneously

PT 40 PRO
bodypack
transmitter



CK 55 L
lavalier microphone



SR 40 SINGLE
receiver



C 444 L

A flexible plastic behind-the-neck arch and large support pads resting gently against the head keep the C 444 L securely in place without pinching.

The flexible microphone arm absorbs mechanical impact and places the microphone near the corner of the user's mouth to prevent pop and breathing noise from being picked up as it would if the mic were positioned right in front of the mouth.



Detachable microphone

Where gain before feedback is no problem, leave the microphone safely nested in its compartment. In more acoustically difficult environments, remove the microphone from the transmitter and attach it to the clothes nearer the user's mouth using the crocodile clip on the microphone.



Put it in your pocket ...

... like a ballpoint pen. You can replace the colored clip with an inconspicuous black clip if necessary.



MP 40 micropen with detached microphone

To improve intelligibility, you can use the integrated cable and crocodile clip on the microphone to attach the microphone to the clothes, near the user's mouth. Reception conditions permitting, you can even hide the transmitter in an inside pocket.



MP 40 micropen in handheld mode

For interviews, etc., you can use the MicroPen in the same way as a conventional handheld microphone. Remember, though, that the sensitivity of the MP 40 is higher than that of most conventional models.

PRESENTER SET **DUAL**

Dual-channel receiver, low operating cost

The cost efficient way to use two transmitters simultaneously.

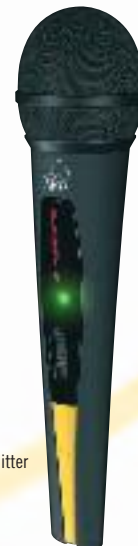
- Two fixed-frequency receivers in a single unit
- Metal case
- Miniature transmitters
- Single-battery powering
- Multichannel capability for using up to seven* channels simultaneously



SR 40 DUAL
receiver



C 444 L
head-worn
microphone



HT 40 PRO
handheld transmitter



PT 40 PRO
bodypack transmitter



CK 55 L

The CK 55 L is a lavalier microphone with an excellent price/performance ratio. With its extended frequency response, this cardioid condenser microphone is a perfect tool for talkers or presenters who need to keep their hands free.

AKG WMS 40 PRO FOR GUITARS

GB 40 GUITARBUG FOR GUITAR AND BASS + PT 40 PRO AND C 444 L FOR VOCALS

Too long. Too short. Forgot it. Tied up in knots. Tangled up. Gone. Pins reversed. Disconnected. Broken. Must be hard to find a guitarist or bassist who never got furious about their cables and the related mess.

The convenient alternative from AKG is called the GB 40 guitarbug, a WMS 40 Microtools Series miniature transmitter specifically designed for guitars and basses. It matches any instrument with a 1/4" TS jack, including keyboards. The spring-loaded "FlexJack" swiveling jack plug connects to the instrument and pulls the transmitter against the instrument. The soft-touch coa-

ting on the transmitter bottom panel stabilizes the transmitter on the instrument and prevents the instrument surface from being scratched.

The DUAL guitar system includes a convenient GB 40 guitarbug, a C 444 L head-worn microphone for singing guitarists/bass players, a PT 40 PRO bodypack transmitter plus the revolutionary SR 40 DUAL receiver, actually two complete, totally independent fixed-frequency receivers in a single case. This simple, compact, and reliable two-channel system sets up and is ready to operate in just a few minutes, and you can add

up to six* more channels of WMS 40 PRO to your first channel if required.

This system combines unlimited mobility on stage, ultra-compact dimensions, ease of use, and exceptional dependability, proverbial AKG audio quality, and more than 30 hours of transmitter operation off a single AA size battery for unique cost efficiency.

All these features make the WMS 40 PRO DUAL guitar system one of the cleverest setups for singing guitarists as well as bass and keyboard players.

GUITAR SPECIAL DUAL

Dual-channel receiver, low operating cost

The cost efficient way to use two transmitters simultaneously.

- Two fixed-frequency receivers in a single unit
- Metal case
- Miniature transmitters
- Single-battery powering
- Multichannel capability for using up to seven* channels simultaneously



SR 40 DUAL receiver



GB 40 guitarbug

C 444 L head-worn microphone



PT 40 PRO bodypack transmitter



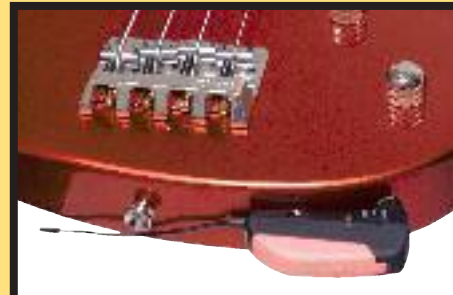
FlexJack for all electric guitar models

The FlexJack connects to guitar jacks on the side (left) or top (right).



FlexJack for all electric/acoustic guitar models

The FlexJack connects to guitar jacks in the strap button.



FlexJack for all electric bass models

The FlexJack connects to bass jacks on the side or top.



FlexJack for all portable keyboards

The FlexJack connects to keyboard jacks. Use two WMS 40 systems for a stereo keyboard.

AKG WMS 40 PRO FOR SPORTS

WIRELESS SYSTEMS FOR MAXIMUM MOBILITY

Wireless microphone systems are becoming increasingly popular in sports arenas, fitness or dance studios for efficient communication between athletes and trainers. The WMS 40 Sports System is a complete solution designed for the specific needs of athletes and trainers.

The FLEXX sports system stands out for its fail-safe dependability, three selectable frequencies and adjustable squelch. For large teams with several trainers and assistants, the system can be expanded to as many as nine* channels.

The SINGLE package is a simple, reliable, and highly cost efficient solution for any application where a single, fixed-frequency channel fits the bill. However, you can add another six* channels at any time if the need arises.

The PT 40 bodypack transmitter features a belt clip for easy and secure fastening to the user's belt or clothes. Alternatively, you can use the supplied light, padded neoprene bag that protects the transmitter from perspiration and impact.

Wireless microphones can be used for many applications from training at the gym to championships in any sports, for communication between trainers and athletes or direct connection to the sound system at a stadium.

The WMS 40 Aerobics System provides tailor-made speech reinforcement solutions for gyms, sports clubs, and teams that are easy to connect to an existing sound system at a gym, hall, or open-air arena, and guarantee users the required mobility.

SPORTS SET **FLEXX**

Maximum flexibility

Three selectable frequencies for interference-free reception, input gain control on transmitter.

- Single channel with three selectable frequencies
- Diversity receiver
- Adjustable squelch
- Multichannel capability for using up to nine* channels simultaneously
- Rugged construction



C 444 L
head-worn microphone



PT 40 FLEXX
bodypack transmitter



SR 40 FLEXX
receiver

SPORTS SET **SINGLE**

Plug and play

The perfect choice for a single wireless microphone channel. Unpack and get going.

- Single fixed frequency
- Metal case
- Miniature transmitter
- Single-battery powering
- Multichannel capability for using up to seven* channels simultaneously



C 444 L
head-worn microphone



PT 40 PRO
bodypack transmitter



SR 40 SINGLE
receiver



CB 400 for optimum bodypack protection

Particularly when used by gymnastics trainers, the PT 40 is not only subjected to mechanical stress but above all the corrosive effects of perspiration. Therefore, you should always use the PT 40 with the supplied neoprene bag.

Should this be impossible for some reason, wear the PT 40 with the antenna pointing down if you use it with a head-worn microphone. This will prevent perspiration from creeping along the cable and finding its way into the transmitter.

AKG WMS 40 SPECIAL PRODUCTS

PUT TOGETHER YOUR OWN CUSTOM SYSTEM

Although the many WMS 40 PRO FLEXX, SINGLE, and DUAL Series systems cover a wide range of applications, situations may come up now and then that require more specialized devices.

Frequent inquiries from users about handsfree microphones, upgradability of existing components, or maximum flexibility prompted AKG to design the WMS 40 microtools. Packing an incredible number of features into incredibly little space, each microtool is a miracle of miniature wireless technology.

The GB 40 guitarbug is probably the most popular microtools Series transmitter. Small wonder, for it is the ideal solution for any guitarist or bass player who has had enough of cables getting in the way. All you need to do is plug it into the output jack on your instrument and power up. With a capacity of up to eleven hours, the battery will outlast even the longest gig, and the input gain control allows you to match the audio input gain perfectly to your pickup model and playing technique to prevent overmodulation or dropouts. And all this weighs less than even the shortest of cables.

Talking about cables, many users of hardwire microphones may wish to go on stage

without having to worry about a cable. But what if your favorite microphone is not or no longer available in a wireless version? Don't worry: the SO 40 snapon transmitter simply connects to the XLR output on your microphone, turning it into a handheld transmitter on the spot. What's more, if your microphone has no mute switch, you can use the one on the transmitter!

Inspired by the snapon transmitter idea, AKG engineers began to think again about the hot selling Emotion and Tri-Power Series microphones. The result is as simple as it is surprising. Several different plug-in modules with or without an on/off or gain and bass cut switches allow these microphones to be used either in hardwire mode (e.g., for miking up an amplifier) or in wireless mode, simply by plugging in the elegant TM 40 transmitter module.









The MP 40 micropen is a highly versatile, compact tool for all ENG applications as well as for lecturers. The engineers and designers at AKG achieved the incredible feat of packing the combined features of a lavalier microphone connected to a remote wireless transmitter, a pen-size clip-on microphone, and a handheld microphone into a space as small as two throwaway lighters. And, even more

incredibly, all this weighs no more than 36 grams (1.3 oz.).

All microtools can be used with all WMS 40 PRO Series receivers or the compact PR 40 portable receiver. This receiver continues the miniaturization begun by the microtools transmitters. Although it is as small as a conventional bodypack transmitter, the battery operated PR 40 offers features that are considered advanced even on stationary receivers: diversity, two swiveling antennas, an adjustable squelch, status LEDs, an output level control, and a headphone output.

Any combination of a microtool and PR 40 receiver could actually be called a "pocket radio link" as you could put any microtools Series transmitter and a portable receiver in your coat pocket together. And the entire system needs no power outlet, either. Both the transmitters and the portable receiver are battery powered, and with a battery life of up to six hours for the receiver and up to eleven hours for the transmitter, there will be enough power for jobs taking many hours on end.

The AKG WMS 40 microtools Series stands for ultra-compact, ultra-portable wireless technology.

receivers	WMS 40 microtools		accessories
<p>SR 40 SINGLE</p>  <p>stationary receiver</p>	<p>GB 40 guitarbug</p>  <p>FlexJack swiveling, extendible plug matches all guitar and bass jacks.</p>	<p>MP 40 micropen</p>  <p>Clever, easy-to-use clip-on microphone for lecturers, moderators, and trainers.</p>	<p>CU 40</p>  <p>charger</p>
+		+	
<p>PR 40</p>  <p>portable receiver</p>	<p>SO 40 snapon transmitter</p>  <p>Turns every hardwire microphone into a wireless transmitter.</p>	<p>TM 40 transmitter module</p>  <p>Special plug-in transmitter module for D 3700^m, D 3800^m, C 5900^m, D 880^m, and C 900^m Tri-Power and Emotion Series microphones.</p>	<p>CU 400</p>  <p>charger</p>



D 3700^M



D 3800^M



C 5900^M



D 880^M



C 900^M

Wireless and highly flexible
 The TM 40 can be used with all Emotion and Tri-Power Series microphones including the D 3700^M cardioid and D 3800^M supercardioid dynamic microphones, the C 5900^M supercardioid condenser microphone, the D 880^M cardioid dynamic, and the C 900^M cardioid condenser microphones. The right microphone for every budget and every application on stage, easily convertible from hard-wire to wireless.



Choice of XLR modules

Several XLR connector modules are available for hardwire operation. Gold plated contact pins ensure maximum audio quality. XLR modules with or without an on/off switch are available for the D 880^M, D 3700^M, and D 3800^M dynamic microphones. The XLR module for the C 900^M condenser has no switch, and the XLR module for the C 5900^M condenser provides output level and bass cut switches. These modules can convert a wireless microphone into a hardwire version within seconds.



PR 40 portable receiver

Antennas

The swiveling antennas can be set to any angle.

Volume

Sets the volume level of the headphone output and matches the output level to the mixer input level.

ON/OFF switch
with status LED.

RF LED

Illuminates to indicate that RF signal is being received. If the RF signal fails or the squelch comes on, the RF LED will go out.

Case

Featuring an exceptionally light and compact case, the PR 40 can be easily attached to a belt, camera, pedalboard, etc. using the belt clip or supplied Velcro strip.

Bottom panel charging contacts

The charging contacts allow you to charge the batteries inside the PR 40 using the optional CU 40 quick charger.

