

# WMS420

## WIRELESS MICROPHONE SYSTEM



## FREE YOURSELF

The WMS420 wireless microphone system provides a highly flexible as well as easy to use solution. The ultra high frequency system is set up within seconds and is equally suitable on stage as well as in locations where a single- or multi channel solution is needed.

The entire WMS420 wireless system consists of the SR420 stationary receiver, HT420 handheld transmitter and the PT420 pocket transmitter. The HT420 handheld transmitter is available with the patented D5 dynamic microphone acoustics. This capsule guarantees maximum rejection against feedback, reduced handling noise and the famous AKG sound. Both transmitters are shipped with charging contacts that enable the use of rechargeable batteries. Moreover the transmitters offer exceptional eight hours of operation time from a single AA size battery, which dramatically reduces the operating costs in day-to-day use.

The detachable receiver antennas allow the use of professional accessories, such as antenna splitters and remote mounted directional antennas for multi channel systems. The WMS420 series includes three different bodypack sets. The head-worn set includes the high performance C555 L condenser microphone. The presenter set includes the professional C417 L lavalier microphone. The guitar set includes an instrument cable. With the AKG WMS420 system up to eight channels can be run simultaneously.

## APPLICATIONS

- » **Live Sound**
- » **Presentations**
- » **Installations**



**AKG ACOUSTICS GMBH** LAXENBURGER STRASSE 254, 1230 VIENNA/AUSTRIA  
**AKG ACOUSTICS, U.S.** 8500 BALBOA BOULEVARD, NORTHRIDGE, CA 91329, U.S.A.

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# SR420

## WIRELESS STATIONARY RECEIVER



## PRODUCT FEATURES

- » **Detachable receiver antennas**  
Enable the use of professional RF accessories
- » **Up to 30 MHz selection bandwidth**  
Allows the use of up to 8 channels simultaneously
- » **Professional balanced XLR and unbalanced 1/4" jack output**  
For the best audio signal
- » **Audio clip and RF control LED on receiver**  
For easy monitoring of your performance
- » **Adjustable squelch level**  
For secure audio transmission in all environments

## PRODUCT SPECIFICATION

|                                     |  |
|-------------------------------------|--|
| <b>Frequency bands:</b>             | A: 530,025 – 559,000 MHz; U1: 606,100 – 613,900 MHz; U2: 614,100 – 629,900 MHz; B1: 748,100 – 751,900 MHz; B2: 774,100 – 777,900 MHz; M: 826,300 – 831,000 MHz; D: 863,100 – 864,900 MHz; K: 925,100 – 931,850 MHz |
| <b>Diversity system:</b>            | Antenna switching  |
| <b>RF output:</b>                   | 10, 20 or 50 mW (depending on frequency band)  |
| <b>Audio bandwidth:</b>             | 40 – 20 000 Hz (+/- 3dB)   |
| <b>Tuning range:</b>                | Up to 30 MHz (depending on frequency band)   |
| <b>Max. channels:</b>               | Up to eight compatible channels within one frequency band  |
| <b>Frequency selection:</b>         | Fixed frequencies  |
| <b>Modulation:</b>                  | FM   |
| <b>Radio range (Line of sight):</b> | 30 meter (with external antennas further distances achievable)   |
| <b>Rack size</b>                    | ½ Racksizes (19")  |
| <b>Dimensions:</b>                  | 150 x 44 x 200 mm  |
| <b>Item number:</b>                 | 3410H00...   |



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# HT420

## WIRELESS HANDHELD TRANSMITTER



### PRODUCT FEATURES

- » **Patented state-of-the-art D5 dynamic capsule**  
Cuts through the mix
- » **Integrated charging contacts (Optional Accessory: CU400)**  
Saves money in day-to-day use and preserves the environment
- » **Six to eight hours with a single AA battery**  
Long operation time and a low battery indicator guarantee a secure operation
- » **Noiseless on/off/mute switch**  
For easy operation
- » **Gain control on transmitter**  
For immediate volume adjustment

### PRODUCT SPECIFICATION

|                                     |  |
|-------------------------------------|--|
| <b>Microphone capsule:</b>          | Patented dynamic D5 capsule  |
| <b>Polar pattern:</b>               | supercardioid  |
| <b>Signal to noise:</b>             | 105 dB-A   |
| <b>THD at 1kHz:</b>                 | 0.8%   |
| <b>Audio bandwidth:</b>             | 70 – 20 000 Hz (+/- 3dB)   |
| <b>Transmitter synchronization:</b> | Manual   |
| <b>Battery type:</b>                | AA battery (LR 6 AA alkaline battery or HR 6 AA (NiHM) rechargeable battery) |
| <b>Operating time:</b>              | Up to eight hours with one AA battery  |
| <b>Dimensions:</b>                  | 237 x 51mm   |
| <b>Weight:</b>                      | 214g   |
| <b>Item number:</b>                 | 3411X00...   |

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# PT420

## WIRELESS BODYPACK TRANSMITTER



### PRODUCT FEATURES

- » **Integrated charging contacts (Optional Accessory: CU400)**  
Saves money in day-to-day use and preserves the environment
- » **Compatible with all AKG MicroMics**  
Allows the transmitter to be used in a wide range of applications
- » **Up to eight hours with a single AA battery**  
Long operation time and a low battery indicator guarantee a secure operation
- » **Noiseless on/off/mute switch**  
For easy operation
- » **Gain control on transmitter**  
For immediate volume adjustment

### PRODUCT SPECIFICATION

|                                     |  |
|-------------------------------------|--|
| <b>Type:</b>                        | Three pin mini XLR connector (female)  |
| <b>Maximum audio level:</b>         | 12dB   |
| <b>Rated Impedance:</b>             | 1 Ohms   |
| <b>Audio bandwidth:</b>             | 40 – 20 000 Hz (+/- 3dB)   |
| <b>Signal to noise:</b>             | 105 dB-A   |
| <b>THD at 1kHz:</b>                 | 0.8%   |
| <b>Transmitter synchronization:</b> | Manual   |
| <b>Battery type:</b>                | AA battery (LR 6 AA alkaline battery or HR 6 AA (NiHM) rechargeable battery) |
| <b>Operating time:</b>              | Up to eight hours with one AA battery  |
| <b>Dimensions:</b>                  | 60 x 75,5 x 30 mm  |
| <b>Weight:</b>                      | 214g   |
| <b>Item number:</b>                 | 3412H00...   |



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# WMS420

## AVAILABLE SETS

### WMS420 Presenter Set

- 1 Bodypack transmitter PT420
- 1 Stationary receiver SR420
- 1 Clip-on microphone C417 L
- 1 Windscreen W407
- 2 Receiver antennas
- 1 AC adapter
- 1 AA size battery

Item number: 3414H00...



### WMS420 Headworn Set

- 1 Bodypack transmitter PT420
- 1 Stationary receiver SR420
- 1 Head-worn microphone C555 L
- 1 Windscreen W444
- 2 Receiver antennas
- 1 AC adapter
- 1 AA size battery

Item number: 3413H00...



### WMS420 Instrumental Set

- 1 Bodypack transmitter PT420
- 1 Stationary receiver SR420
- 1 Instrument cable
- 2 Receiver antennas
- 1 AC adapter
- 1 AA size battery

Item number: 3415H00...



### WMS420 Vocal Set

- 1 Handheld transmitter HT420
- 1 Stationary receiver SR420
- 2 Receiver antennas
- 1 AC adapter
- 1 Stand adapter
- 1 AA size battery

Item number: 3416H00...



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## OPTIONAL ACCESSORIES

### APS4 (Item no.: 3296H00...)

Wide-band UHF active Antenna and Power Splitter that can feed up to 4 receivers with the RF signal coming from one pair of antennas and also supplies power to all connected receivers via BNC cables.



### AB4000 (Item no.: 3009Z00020)

High performance antenna booster for long antenna cable distances. One AB4000 can compensate approx. 17 dB of cable attenuation. Up to three boosters can be used in series for extremely long cable runs.



### SRA2 B/W (Item no.: 3009Z00160)

Active directional antenna with integrated high performance booster required for use with long cable runs.



### SRA2 W (Item no.: 3009Z00150)

Passive directional antenna for use with short cable runs (<10 meters).

### RA4000 B/W (Item no.: 2632Z00320)

Active omnidirectional antenna with integrated high performance booster required for use with long cable runs.



### RA4000 W (Item no.: 2632Z00310)

Passive omnidirectional antenna for use with short cable runs (<10 meters).

### ASU4000 (Item no.: 3009Z00100)

Remote power supply for small antenna systems where no APS4 is in use to provide the necessary power for the active antennas.



### ZAPD-21 (Item no.: SERVSON760)

Two to one antenna combiner for indoor and outdoor use. Can be used either to split signals or combine them if needed.



### CU400 (Item no.: 2934H000..)

AKG's CU400 is a fast charger that rapidly charges the rechargeable battery inside the transmitter without damaging the cell element. CU400 charger determines the optimum charge current.



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