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> AKG WMS420 Presenter Set Wireless Microphone System User Manual

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Model: WMS420

INTRODUCTION

The AKG WMS420 Presenter Set is a professional multi-channel wireless microphone system designed for clear audio transmission. It features pilot tone technology to prevent unwanted noise and offers a flexible solution for various applications, from stage performances to installations. This system includes a stationary receiver, a body-pack transmitter, and a lavalier microphone, supporting rechargeable batteries for cost-effective operation.

PACKAGE CONTENTS

Verify that all components are present in your AKG WMS420 Presenter Set package:

- SR 420 Stationary Receiver
- PT 420 Body-Pack Transmitter
- C417 L Lavalier Microphone
- Power Supply for Receiver
- AA Battery (for transmitter)
- Detachable Receiver Antennas

KEY FEATURES

- **Detachable Receiver Antennas:** Allows for the use of professional RF accessories such as antenna splitters and remote-mounted directional antennas.
- **Professional C417 L Lavalier Microphone:** Included for high-quality vocal capture.
- **Transmitters with Charging Contacts:** Designed to support rechargeable batteries, reducing operational costs and environmental impact.
- **Compatibility:** Works with all AKG Micromics for broad application use.
- **Low Battery Warning Indicator:** Provides visual notification for secure and uninterrupted operation.
- **Pilot Tone Transmission:** Prevents unwanted noise and ensures stable signal quality.

SETUP

1. SR 420 Stationary Receiver Setup

1. **Positioning:** Place the receiver on a stable, flat surface, away from large metal objects or other wireless devices that may cause interference.
2. **Connect Antennas:** Screw the two detachable antennas onto the ANTENNA A and ANTENNA B connectors on the rear of the SR 420 receiver. Ensure they are securely tightened and positioned for optimal reception.
3. **Connect Audio Output:** Connect the AUDIO OUT (XLR balanced or 1/4" unbalanced) of the receiver to the input of your mixer or PA system using an appropriate audio cable.
4. **Connect Power:** Plug the provided power supply into the DC IN 12V 500mA jack on the receiver and then into a suitable power outlet. Do not power on yet.



Image: Front view of the AKG SR 420 Stationary Receiver, showing the ON/OFF button, VOLUME knob, channel display, RF OK indicator, and CLIP indicator.



Image: Rear view of the AKG SR 420 Stationary Receiver, showing ANTENNA A and B connectors, SQUELCH control, BALANCED XLR output, UNBALANCED 1/4" output, and DC IN power jack.

2. PT 420 Body-Pack Transmitter Setup

1. **Install Battery:** Open the battery compartment of the PT 420 body-pack transmitter. Insert the supplied AA battery, observing the correct polarity (+/-). Close the compartment securely.
2. **Connect Lavalier Microphone:** Plug the C417 L lavalier microphone into the mini-XLR input on the top of the PT 420 body-pack transmitter. Ensure it clicks into place.
3. **Secure Transmitter:** Attach the body-pack transmitter to your belt or clothing using the integrated clip. Position the lavalier microphone approximately 6-12 inches from your mouth for optimal sound capture.



Image: Front view of the AKG PT 420 Body-Pack Transmitter, showing the channel display and battery status indicator.





Image: Top view of the AKG PT 420 Body-Pack Transmitter, showing the mini-XLR input for the microphone and the antenna.





Image: Close-up of the AKG C417 L Lavalier Microphone.

OPERATING INSTRUCTIONS

1. **Power On Receiver:** Press the ON/OFF button on the SR 420 receiver. The display should illuminate.
2. **Power On Transmitter:** Press and hold the ON/OFF button on the PT 420 body-pack transmitter until the indicator light illuminates.

3. **Select Channel:** On the SR 420 receiver, use the CHANNEL buttons to select a clear operating frequency. The RF OK indicator should light up green, indicating a stable connection with the transmitter. On the PT 420 transmitter, ensure its channel matches the receiver's channel. Refer to the frequency band information (Band U2: 614.100 - 629.300 MHz) for available frequencies.
4. **Adjust Volume:** Speak into the lavalier microphone at your normal speaking volume. Adjust the VOLUME knob on the SR 420 receiver to achieve the desired audio level without distortion. The CLIP indicator should only flash briefly on peaks, not stay lit.
5. **Pilot Tone:** The WMS420 system utilizes a pilot tone to ensure reliable operation and prevent interference. This feature automatically mutes the receiver's audio output if the transmitter is turned off or goes out of range, preventing unwanted noise.
6. **Power Off:** To power off, press the ON/OFF button on both the transmitter and receiver.

MAINTENANCE

Battery Care

- The PT 420 transmitter is compatible with rechargeable AA batteries. If using rechargeable batteries, ensure they are fully charged before each use.
- Replace non-rechargeable AA batteries when the low battery warning indicator on the transmitter illuminates.
- Remove batteries from the transmitter if it will not be used for an extended period to prevent leakage.

Cleaning

- Wipe the surfaces of the receiver and transmitter with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or internal components.
- Keep the microphone clean and free of debris.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from receiver	Transmitter or receiver not powered on; incorrect channel selection; low battery; audio cable disconnected.	Ensure both units are powered on. Verify transmitter and receiver are on the same channel. Check battery level. Confirm audio cables are securely connected to mixer/PA.
Interference or static	Other wireless devices on the same frequency; receiver too far from transmitter; obstacles blocking signal.	Select a different channel on the receiver and transmitter. Reduce distance between units. Ensure line of sight between transmitter and receiver antennas. Avoid placing near Wi-Fi routers or other RF sources.
Low audio level	Receiver volume too low; microphone positioned too far from source.	Increase receiver volume. Reposition lavalier microphone closer to the speaker's mouth.
CLIP indicator constantly lit	Input signal too strong, causing distortion.	Reduce the input gain on your mixer/PA system or speak further from the microphone.
Transmitter battery drains quickly	Old or low-quality batteries; frequent use.	Use fresh, high-quality alkaline batteries or fully charged rechargeable batteries. Consider having spare batteries on hand.

SPECIFICATIONS

Feature	Detail
Model Name	WMS420
Connectivity Technology	Wireless (XLR output on receiver)
Frequency Band	Band U2 (614.100 - 629.300 MHz)
Audio Sensitivity	105 Decibels
Signal-to-Noise Ratio	80 dB
Microphone Form Factor	Wireless Instrument Set (Presenter Set includes Lavalier)
Power Source	Battery Powered (1 AA battery for transmitter)
Compatible Devices	PA System
Item Weight	0.71 Kilograms (approx. 1.56 lbs)
Item Dimensions (Receiver)	16.4 x 12.9 x 3.1 inches (approx.)
Model Number (Mfr Part)	3414H00090 (WMS420P-A)
UPC	885038036500

WARRANTY INFORMATION

AKG Acoustics warrants AKG products against defects in material or workmanship for a period of **two years** from the date of original purchase. Select studio and boundary layer microphones may carry a three-year warranty. This warranty is valid for products purchased and delivered within the United States and Canada for the original purchaser only. Your bill of sale serves as proof of purchase and warranty validity.

Important Exclusions: This warranty does not cover damage resulting from accident, misuse, abuse, lack of reasonable care, the affixing of any attachment not provided with the product, loss of parts, or connecting the product to any receptacle other than specified. The warranty is void unless an authorized AKG service center performs the repair. No responsibility is assumed for any special, incidental, or consequential damages caused by the consumer.

For warranty service, shipment of defective items to AKG for repair will be at the customer's own risk and expense. AKG will assume the return shipping cost for all items repaired under warranty.

SUPPORT

For further assistance, technical support, or service inquiries regarding your AKG WMS420 Presenter Set, please refer to the official AKG Pro Audio website or contact their customer support. Ensure you have your product model number and purchase details available when seeking support.