AKG WMS 470 is your best choice for any application calling for a solution that is more flexible than a simple plug-and-play system, yet easy to set up and operate. WMS 470 is a high-performance solution for any situations where several radio mics will be used simultaneously, including gigs at clubs and stages, for regional events, seminars or house of worship applications.

With 30 MHz tuning range you can select 1200 frequencies and operate with up to 20 channels simultaneously within the same frequency band or up to 48 channels in multiple bands.

WMS 470 is the most cost-efficient wireless systems. Transmitters are powered by a single AA size Alkaline (LR6), Lithium (FR6) or Ni-MH rechargeable (HR6) battery and provide up to 14 hours of continuous operation.

Being compatible and based on the technology of the professional WMS 4500 wireless system you can set up even complex wireless systems using antenna splitters, power supply units and the whole range of professional directional or omni-directional antennas.
SR 470 Receiver Specifications

Carrier frequency range
- Band 1: 650 to 680 MHz
- Band 3: 720 to 750 MHz
- Band 3-K: 740.1 to 751.9 MHz
- Band 5-A: 790.1 to 819.9 MHz
- Band 5-B: 806.125 to 809.750 MHz
- Band 5-D: 794.1 to 805.9 MHz
- Band 7: 500.1 to 530.5 MHz
- Band 8: 570.1 to 600.5 MHz
- Band 9: 600.1 to 605.9 & 614.1 to 630.5 MHz
- Band 9-U: 600.1 to 630.5 MHz
- Band M: 826.3 to 831.9 MHz
- Band D: 863.1 to 864.9 MHz
- Band 6-A-ISM: 835.1 to 861.9 & 863.1 to 864.9 MHz

Switching bandwidth: ≤ 30.5 MHz (country dependent)

Sensitivity: 6.3 dBµV / -100 dBm

Diversity System: Microprocessor-controlled diversity

Modulation: Wideband FM

Audio bandwidth: 35 – 20 000 Hz (± 3 dB)

T.H.D.: ≤ 0.3 %

SNR (A-weighted): typ. 120 dB(A)

Audio outputs:
- 1 x XLR sockets balanced
- 1 x TS ¼” / 6.3 mm jack sockets unbalanced

Dimensions: ½ 19 inch 1U rack, 202 mm (7.8 in.) × 44 mm (1.7 in.) × 190 mm (7.4 in.)

Net / Shipping Weight: 972 g (2.2 lbs.)

Standard Accessories: 2 UHF antennas, power supply, rack mount kit

Item number: SR 470 3300H00..
**Conference**
**Seminar**
**House of worship / Church**
**School**
**Live Sound / Club Music**

* Extremely light and compact bodypack transmitter
* Premium audio quality
* **Pilot Tone**
  * Quick setup via infrared link of all frequency and setup data from receiver
* Long battery life - most cost-efficient wireless system
* Up to 50 mW RF-output power
* 14 hours battery life (Lithium battery)
* Battery status information in hours
* Low battery data transmission to receiver

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**PT 470 Bodypack Transmitter Specifications**

<table>
<thead>
<tr>
<th>Carrier frequency range</th>
<th>Band 1: 650 to 680 MHz</th>
<th>Band 6-A: 835.1 to 861.9 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Band 2: 720 to 750 MHz</td>
<td>Band 7: 500.1 to 530.5 MHz</td>
<td></td>
</tr>
<tr>
<td>Band 3: 740.1 to 751.9 MHz</td>
<td>Band 8: 570.1 to 600.5 MHz</td>
<td></td>
</tr>
<tr>
<td>Band 4: 790.1 to 819.9 MHz</td>
<td>Band 9: 600.1 to 614.1 to 630.5 MHz</td>
<td></td>
</tr>
<tr>
<td>Band 5: 860.125 to 809.750 MHz</td>
<td>Band 9-U: 600.1 to 630.5 MHz</td>
<td></td>
</tr>
<tr>
<td>Band 6: 794.1 to 805.9 MHz</td>
<td>Band M: 826.3 to 831.9 MHz</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Switching bandwidth</th>
<th>≤ 30.5 MHz (country dependent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF output power</td>
<td>10 or 50 mW (ERP, country dependent)</td>
</tr>
<tr>
<td>Modulation</td>
<td>Wideband FM</td>
</tr>
<tr>
<td>Audio input</td>
<td>TB3M / 3-pin mini-XLR socket (max. 2.5 Vrms)</td>
</tr>
<tr>
<td>Audio bandwidth</td>
<td>35 – 20 000 Hz (± 3 dB)</td>
</tr>
<tr>
<td>T.H.D.</td>
<td>≤ 0.7 %</td>
</tr>
<tr>
<td>SNR (A-weighted)</td>
<td>&gt; 120 dB(A)</td>
</tr>
<tr>
<td>Battery life</td>
<td>≥ 7 hours with one 1.5 V LR6 AA alkaline battery</td>
</tr>
<tr>
<td></td>
<td>≥ 8 hours with one 1.2 V HR6 AA rechargeable battery (min. 2100 mAh)</td>
</tr>
<tr>
<td></td>
<td>≥ 14 hours with one 1.5 V FR6 AA lithium battery</td>
</tr>
<tr>
<td>Dimensions</td>
<td>60 mm (2.4 in.) × 73.5 mm (2.9 in.) × 30 mm (1.2 in.)</td>
</tr>
<tr>
<td>Net / Shipping Weight</td>
<td>90 g (3.2 oz.) without batteries</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>1 AA size LR6 batteries, belt clip</td>
</tr>
</tbody>
</table>

**Item number:** PT 470 3302H00..

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**Available AKG Microphones:**

C417  Ck99  CK77
C411  C516  C518  C519
HC577  C520  C544  C555

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**Architects’ and Engineers’ Specifications**
The bodypack transmitter shall be housed in a miniature body and provide pilot tone and 1200 carrier frequencies that can be programmed via infrared within a 30 MHz wide subband. An LC display shall indicate the transmitter battery capacity in hours, as well as the frequency, frequency group, and preset name. An outside infrared sensor shall allow the frequency and input gain setting to be programmed, and a silent mode shall permit the transmitter to be used legally in R&TTE countries. The transmitter shall transmit low battery capacity and muting information to the receiver and use an integrated dipole transmitting antenna. The transmitter shall be available with an RF output of 10 mW or 50 mW (ERP). The transmitter shall provide a lockable on/mute/off switch with IR programming and silent mode functions. Charging contacts on the bottom panel shall allow the easy charging of a rechargeable battery inside the transmitter and a 2.5 mm jack shall allow an external mute switch to be connected. The audio bandwidth of the transmitter shall be 35 Hz to 20 kHz; S/N 120 dB(A); THD at 1 kHz <0.7%. The input gain shall be adjustable by means of a special tool integrated in the battery compartment cover. The transmitter shall operate off one AA size LR6 dry battery for >7 hours, up to 8 hours off one AA size NiMH rechargeable battery and up to 14 hours off one AA size FR6 lithium battery. The bodypack transmitter shall measure 60 x 73.5 x 30 mm and weigh 90 g. The bodypack transmitter shall be the AKG PT 470 or equivalent.
**Wireless Microphone System**

Conference  
Seminar  
House of Worship / Church  
School  
Live Sound / Club Music

- Available with D 5 or C 5 high quality microphone element
- Premium audio quality
- Pilot Tone
- Quick setup via infrared data link of all frequency and setup data from receiver
- Long battery life - most cost-efficient wireless systems
- Up to 50 mW RF-output power
- 14 hours battery life (Lithium battery)
- Battery status information in hours
- Low battery data transmission to receiver

**HT 470 Handheld Transmitter Specifications**

<table>
<thead>
<tr>
<th>Carrier frequency range</th>
<th>HT 470 D 5</th>
<th>HT 470 C 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Band 1: 650 to 680 MHz</td>
<td>3301X00..</td>
<td>3301X00..</td>
</tr>
<tr>
<td>Band 3: 720 to 750 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Band 3-K: 740.1 to 751.9 MHz</td>
<td></td>
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</tr>
<tr>
<td>Band 5-A: 790.1 to 819.9 MHz</td>
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<td>Band 5-B: 806.125 to 809.750 MHz</td>
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<td>Band 6-A-ISM: 835.1 to 861.9 &amp; 863.1 to 864.9 MHz</td>
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</tr>
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<td></td>
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<tr>
<td>Band 8: 570.1 to 600.5 MHz</td>
<td></td>
<td></td>
</tr>
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<td>Band 9: 600.1 to 605.9 &amp; 614.1 to 630.5 MHz</td>
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<td></td>
</tr>
<tr>
<td>Band 9-U: 600.1 to 630.5 MHz</td>
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<td>Band M: 826.3 to 831.9 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Band D: 863.1 to 864.9 MHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Switching bandwidth: ≤ 30.5 MHz (country dependent)
- RF output power: 10 or 50 mW (ERP, country dependent)
- Modulation / Bandwidth: Wideband FM
- Microphone capsules: D 5 – dynamic (super cardioid)  
  C 5 – condenser (cardioid)
- Max. SPL: ≤ 144 dB SPL
- Audio bandwidth: 35 – 20 000 Hz (± 3 dB)
- T.H.D.: ≤ 0.7 %
- SNR (A-weighted): > 120 dB(A)
- Battery life: ≥ 7 hours with one 1.5 V LR6 AA alkaline battery  
  ≥ 8 hours with one 1.2 V HR6 AA rechargeable battery (min. 2100 mAh)  
  ≥ 14 hours with one 1.5 V FR6 AA lithium battery
- Dimensions: 237 mm (9.3 in.) length, 51 mm (2 in.) dia.
- Net / Shipping Weight: 240 g (8.5 oz.) without batteries
- Standard Accessories: 1 x AA size LR6 battery, stand adapter, windsreen
- Item number: HT 470 D 5 3301X00..  
  HT 470 C 5 3301X00..

**Architects’ and Engineers’ Specifications**

The handheld transmitter shall be housed in a miniature body and provide pilot tone, 1200 carrier frequencies that can be programmed via infrared within a 30 MHz wide subband. An LC display shall indicate the transmitter battery capacity in hours, as well as the frequency, frequency group, and preset name. An outside infrared sensor shall allow the frequency and input gain setting to be programmed, and a silent mode shall permit the transmitter to be used legally in R&TTE countries. The transmitter shall transmit low battery capacity and muting information to the receiver and use an integrated dipole transmitting antenna. The transmitter shall be available with an RF output of 10 mW or 50 mW (ERP). The transmitter shall provide a central on/mute/off switch with IR programming and silent mode functions. Charging contacts on the bottom panel shall allow the easy charging of a rechargeable battery inside the transmitter. The audio bandwidth of the transmitter shall be 35 Hz to 20 kHz; S/N 120 dB(A); THD at 1 kHz < 0.7%. The transmitter shall operate on one AA size dry battery for ≥ 7 hours, up to 8 hours on one AA size NiMH rechargeable battery and up to 14 hours off one AA size FR6 lithium battery. The handheld transmitter shall measure 236.9 mm long x 51.1 mm max. dia. and weigh 240 g. An stand adapter shall be included as a standard accessory. The handheld transmitter shall be the AKG HT 470 or equivalent.
AKG's CU 400 is a fast charger that rapidly charges the rechargeable battery inside the transmitter without damaging the cell element. CU 400 charger determines the optimum charge current. Charging is terminated when both batteries are fully charged.

The CU 400 charger uses the pulse technology in which a pulse is fed to the battery. This DC pulse has a strictly controlled rise time, pulse width, pulse repetition rate (frequency) and amplitude.

- 2-hour quick charging.
- Two slots that fit both HT 470 and PT 470.
- LED status information

CU 400 Charging Unit Specifications

Matching devices
HT 470, PT 470, HT 450, PT 450
Rechargeable batteries
AA size, >2100 mAh NiMH rechargeable battery
Slot number
2
Dimensions
7.4(W) x 4.5(H) x 3.1(D) inch / 188(W) x 115(H) x 78(D) mm
Net / Shipping Weight
14.8 oz / 420 g
Standard Accessories
1 x 5 V / 1.5 A DC Power supply

Item number: CU 400 EU/US/UK 2934Z0001
CU 400 no power supply 2934Z0004

Wireless Microphone System

WMS 470 Sets

WMS 470 D5
- SR 470 Receiver
- HT 470 Handheld with D5 Capsule
- Stand Adaptor
- 19” Rack Mount Kit
- LR6 Battery
- EUUS/UK Power Supply
- ¼-Wave Antennas
Item number: 3305X00...

WMS 470 C5
- SR 470 Receiver
- HT 470 Handheld with C5 Capsule
- Stand Adaptor
- 19” Rack Mount Kit
- LR6 Battery
- EUUS/UK Power Supply
- ¼-Wave Antennas
Item number: 3306X00...

WMS 470 Instrumental
- SR 470 Receiver
- PT 470 Bodypack
- MKGL Instrument Cable
- 19” Rack Mount Kit
- LR6 Battery
- EUUS/UK Power Supply
- ¼-Wave Antennas
Item number: 3307H00...

WMS 470 Presenter
- SR 470 Receiver
- PT 470 Bodypack
- CK 99 L Lavalier Mic.
- C 555 L Headworn Mic.
- 19” Rack Mount Kit
- LR6 Battery
- EUUS/UK Power Supply
- ¼-Wave Antennas
Item number: 3308X00...

WMS 470 Sports
- SR 470 Receiver
- PT 470 Bodypack
- C 544 L Headworn Mic.
- 19” Rack Mount Kit
- LR6 Battery
- EUUS/UK Power Supply
- ¼-Wave Antennas
Item number: 3309X00...

Architects' and Engineers' Specifications

The charger shall be housed in a rugged plastic case with two multifunctional charging slots for charging WMS 470 Series wireless transmitters. Each charging slot shall accommodate a handheld or bodypack transmitter and the charger shall be capable of charging any combination of transmitters (e.g., one HT 470 and one PT 470 simultaneously). The batteries shall remain inside the transmitter(s) during charging. The charger shall detect any dry (non-rechargeable) battery inside a transmitter and automatically stop the charging cycle if a dry battery is inserted. A status LED shall be placed in front of each charging slot. These tricolor (red/amber/green) LEDs shall indicate the charger's current operating status: amber - battery is being tested; red - battery is being charged; green - battery is fully charged and charging cycle finished; flashing red - error. The voltage and temperature shall be monitored during the charging cycle and a signal given at the end of a charging cycle to indicate that full capacity has been reached. All required safety parameters shall be monitored and the charging cycle stopped if one or more safety parameters fall below or exceed the acceptable range. Operating voltage shall be 5 VDC, 1.5 A max. The charger shall accept NiMH or NiCd rechargeable batteries with a minimum capacity of 1500 mAh. Typical charging current shall be 1.4 A when one charging slot is used and 0.7 A when both slots are used simultaneously. Typical charging time 1.5 hours when one charging slot is used and 3 hours when both slots are used simultaneously (depending on battery type and capacity). The charger shall measure 188 x 115 x 78 mm (LxHxD), weigh approx. 420 g, and be enamelled black. The charger shall be the CU 400 or equivalent.
Antenna System

8 Channel **WMS 470** System

PS 4000 W Power splitter – Antenna distributor to feed up to 5 receiver with the RF-signal of a pair of antennas. To feed more than 5 receivers the PS 4000 W provide a link output to cascade up to 3 PS 4000 W.

SRA 2 B/W Directional antenna – Active antenna with integrated high performance booster required for use with long cable runs.

SRA 2 W Directional antenna – Passive antenna for use with short cable runs (<10 m)

RA 4000 B/W Omni-directional antenna – Active antenna with integrated high performance booster required for use with long cable runs.

RA 4000 W Omni-directional antenna – Passive antenna for use with short cable runs (<10 m)

AB 4000 Antenna Booster – High performance antenna booster for inserting into long antenna cables. One AB 4000 can compensate for approx. 17 dB of cable attenuation. Up to three boosters can be used in series for extremely long cable runs.

ASU 4000 Antenna Supply Unit – Remote power supply for small systems where no PS 4000 W is in use to provide the necessary power for the active antennas.

ZAPD-21 Passive splitter – 2-into-1 antenna combiner for indoor and outdoor use. Can be used either to split signals or combine them as needed.

Part list:
- 8 x SR 470 – Receiver
- 8 x HT 470 or PT 470 – Transmitter
- 2 x PS 4000 W - Power Splitter
- 2 x SRA 2 B/W - Remote Antenna
- 2 x MKS 20 RG58 - Cable 20m
- 18 x MKS RG58 - Cable 0.65m
- 1 x PSU 4000 - Power Supply Unit

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