



H A Harman International Company

HT 4000/PT 4000

Handheld/Bodypack Transmitters

Description

The AKG 4000 bodypack and HT 4000 handheld transmitters have identical transmission characteristics, with a maximum radiated output power of 50 milliwatts. Through special signal companding circuits (compression and expansion), dynamic range capability greater than 120 dB is delivered at the receiver's output. Audio bandwidth of the system is uniform from 35 Hz to 20 kHz. The usable distances between the receiver and transmitter can be 330 ft. (100 m) or more. Individual handheld microphone and bodypack transmitters are factory-matched to each receiver. Each system operates on a 30 MHz-wide UHF channel and includes a set of Presets containing Intermodulation Free frequencies as well as a search tuning mode with access to up to 1,200 switchable frequencies. In the U. S., a total of four bands of 30 MHz channels may be selected. The user may expect a maximum of approximately 50 usable channels in a given locale (depending on the local TV channels and wireless frequencies used). In addition to the modulated audio signal, the transmitters send out a data-encrypted PilotTone (at 32,768 Hz) to send important information such as battery status, mute status and more to the system's receiver.

The HT 4000 handheld and PT 4000 bodypack transmitters can be powered by 2 AA batteries and normal battery life of up to 15 hours can be expected from standard 1.5-volt alkaline cells. An optional BP 4000 rechargeable battery pack is available, featuring Smart Battery Management System Software, and can provide battery life of up to 12 hours plus the remaining battery life can be monitored on the transmitter's & receiver's displays.

Both transmitters come with a backlit display and a jog element for easy setup and full status control. The display features information on selected frequency, gain setting, and remaining battery life in hrs. as well as LOCK and MUTE status. Beside the display and the jog element, the controls on the HT 4000 & PT4000 include lockable ON/OFF button and a separate MUTE switch whose position is easily distinguishable as well as a status indication LED. An inscribable color code facility helps easy channel recognition in multi-channel systems.

The PT 4000 bodypack accepts both microphone and line-level input signals, and the input sensitivity can be adjusted from 0 – 25 dB for optimum gain matching. The antenna is a quarter-wavelength type that affords easy concealment and comfortable wearing. A lockable TA-3F Mini-XLR connector is available for easy connection of a broad range of AKG headset, lavalier or instrument mics (e.g. MicroMic Series microphones) as well as instrument cables. The PT 4000 also comes with a 2.5-mm jack connector suitable for the optional RemoteMuteSwitch device RMS 4000.

The HT 4000 handheld transmitter comes with a rugged mechanical solution for interchangeable microphone modules. Six of AKG's most popular handheld "vocal" microphone head units are available for the handheld transmitter model. The microphones are the dynamic models D 880 WL1, D 3700WL 1, D 3800 WL 1 as well as the condenser models C 900 WL1, C 5900 WL 1, and C 535 WL 1.



Features

- **Wideband UHF handheld transmitters with interchangeable acoustics**
- **Wideband UHF pocket transmitters with die-cast metal housings**
- **Pre-matched, optimized frequency groups for quick, easy frequency selection (Presets)**
- **Backlit LCD Displays for easy status monitoring**
- **Simple, fool-proof setup procedure using Jog element for quick navigation**
- **Integrated charging contacts for convenient recharging of optional battery pack**
- **Continuous operation of up to 15 hrs. with 2 x AA alkaline batteries or up to 12 hrs. with optional BP 4000 rechargeable battery pack**
- **Up to 18 intermodulation-free frequencies available on each 30 MHz frequency band**
- **Wide range of optional accessories available for system customization**



Battery Status



Auto Gain



Preset Frequencies

Specifications

PT 4000 Bodypack

Audio Bandwidth: 35 –20,000 Hz

Carrier Frequency Range: 650 – 790 MHz

Carrier Frequencies: up to 1,200

Modulation Method: FM

Rated Deviation: ±20 kHz nominal

S/N Ratio (A-weighted): > 120 dB(A)

Radiated RF Power: 50 mW ERP

Audio Input: Mini XLR, 3 pin

Current Consumption: < 135 mA

Power Requirement: 2 AA 1.5-V batteries or
BP 4000 rechargeable pack

Typical Battery Life: Alkaline batteries, 15 hours; BP 4000: 12 hrs.

Size: 2.8 x 3.5 x 1 in. (70 x 90 x 25 mm)

Net Weight: 3.4 oz. (97 g) without batteries

HT 4000 Handheld

Audio Bandwidth: 35 –20,000 Hz

Carrier Frequency Range: 650 – 790 MHz

Carrier Frequencies: up to 1,200

Modulation Method: FM

Rated Deviation: ±20 kHz nominal

S/N Ratio (A-weighted): > 120 dBA

Radiated RF Power: 50 mW ERP

Input Level: 140 dB-SPL @ nominal deviation

Current Consumption: <125 mA

Power Requirement: 2AA 1.5-V batteries or
rechargeable pack BP 4000

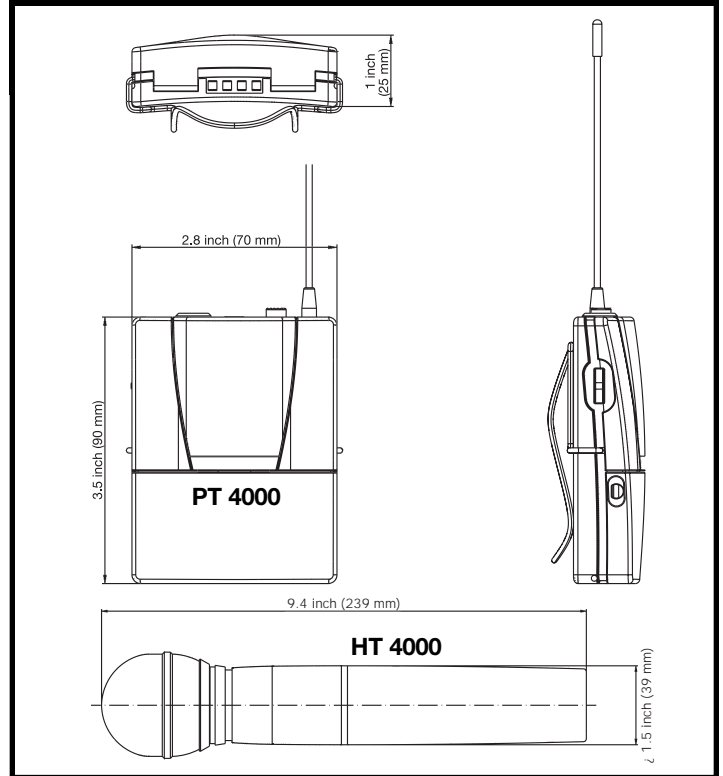
Battery Life: Dry batteries, 15 hours, BP 4000: 12 hrs.

Size: length: 9.4 in. (239 mm); diameter: 1.5 in. (39 mm)

Net Weight: 10 oz. (285 g) without batteries

Standard Accessories: SA 63 stand adapter

Graphical Data



Architects and Engineers Specifications

The wireless system shall operate over a 30 MHz UHF frequency range in one of 4 bands from 650 to 790 MHz, with a wide range of possible frequency settings. The wireless microphone system shall incorporate factory-optimized sets of both transmission and receiving frequency modules that are programmed into both transmitters and receivers. Each frequency set shall comprise a 30 MHz UHF band and offer up to 1,200 discrete operating frequencies within that band, with transmitter power not exceeding 50 milliwatts. Both handheld and bodypack type transmitters shall be provided. The bodypack transmitter shall accommodate both

microphone and line level inputs. The transmitters shall operate with a companding system that is complemented by the receiver, providing an A-weighted system dynamic range in excess of 120 dB. The transmitters shall indicate input overload via an LED indicator and on a backlit display battery lifetime shall be displayed in hours as well as the transmitting frequency. Handheld transmitters shall have a maximum diameter of 1.5 in. (39 mm) and a length, including antenna, no greater than 9.4 in. (239 mm). The wireless microphone system shall be the AKG Acoustics Model WMS 4000.

Limited Warranty

Valid only in the United States. AKG Acoustics warrants AKG products against defects in material or workmanship for a period of two years from the date of original purchase for use, and agrees to repair or, at our option, replace any defective unit without charge for either parts or labor. Important: This warranty does not cover damage resulting from accident, misuse or abuse, lack of reasonable care, the affixing of any attachment not provided with the product, loss of parts or connecting the product to any but the specified receptacles. This warranty is void unless service or repairs are performed by an authorized service center. No responsibility is assumed for any special, incidental

or consequential damages. However, the limitation of any right or remedy shall not be effective where such is prohibited or restricted by law. Simply take or ship your AKG product prepaid to our service department. Be sure to include your sales slip as proof of purchase date. (We will not repair transit damage under the no-charge terms of this warranty.) Note: No other warranty, written or oral is authorized by AKG Acoustics, Inc. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above exclusions and limitation may not apply to you.

Microphones · Headphones · Wireless Microphones · Wireless Headphones · Headsets · Electroacoustical Components



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