

Handheld Transmitter



The transmitter benefits from a fourth generation design with specially developed, high efficiency digital circuitry for extended operating time on two AA batteries. The transmitter can tune across the UHF television band from 470.100 to 607.950 MHz, with a selectable output power of 25 or 50 mW. The pure digital architecture enables AES 256-CTR encryption for applications that require high level security.

Studio quality audio performance is assured by high quality components, wide range audio gain adjustment in fine increments, and a DSP-controlled, dual envelope limiter. Low frequency audio roll-off is adjustable to tailor the sound as needed for a variety of applications.

Setup is easy using membrane switches on a concealed control panel. An IR (infrared) port on the control panel allows settings to be transferred between receiver and transmitter.

A programmable switch on the outside of the housing can be configured as a cough or mute switch, a power switch, or be bypassed.

- Fourth generation digital design
- 256-bit encryption - AES 256-CTR
- Interchangeable thread-on capsules
- Membrane switch and LCD interface
- Battery powered by two AA
- Selectable RF output power at 25 or 50 mW
- IR (Infrared) Port for fast setup
- Adjustable low frequency audio roll-off
- Rugged machined aluminum housing

The DHu Digital Hybrid Wireless handheld transmitter represents a versatile solution for a variety of wireless microphone applications including live performance, broadcast, AV rental and houses of worship. The design incorporates advanced features to provide high-quality speech and vocal reinforcement.

Interchangeable Capsules

Lectrosonics offers the HHC cardioid condenser capsule. Thread-on capsules from other manufacturers using a 1.25" opening and 28 thread pitch can also be used, including those from manufacturers such as EV, Shure®, Heil Sound™, Earthworks®, Telefunken® and others.*



* Shure, Earthworks and Telefunken are registered trademarks of their respective companies and have no association with Lectrosonics. Heil Sound is a trademark of Heil Sound Ltd.

Concealed Control Panel

The lower housing sleeve slides down for access to the control panel. Coarse threads on the sleeve hold the sleeve firmly in place during use, but allow easy access to the control panel for setup and adjustment.



Selectable RF Transmission Power

The DHu transmitter allows the user to select from among two power settings depending on the needs of the situation. The lower RF power setting uses slightly less current to extend battery life. The higher power setting provides greater range and resistance to dropouts.

Programmable Button Functions

The function of the button on the back of transmitter below the capsule can be configured as follows:

- **(none)** bypasses the switch.
- **Mute** operates as a toggle. One press and release mutes the audio, and the next restores the audio.
- **Cough** is a momentary audio mute when the button is held in. Audio is restored as soon as the button is released.
- **Power** operates in the same manner as the power button membrane switch on the control panel. Press and hold for a countdown, or a brief press to access a menu.

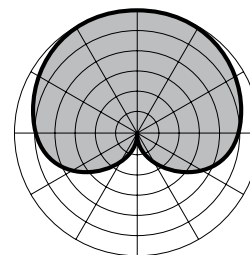


Battery Compartment

The battery contacts hold the batteries firmly to prevent audible "rattle" when the transmitter is shaken. An eject lever releases one end of the batteries to make it easier to remove them.



Lectrosonics HHC Electret Capsule Cardioid Pattern



Specifications

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|------------------------------|--|
| Frequency range: | 470.100 - 607.950 MHz |
| Frequency selection steps: | Selectable; 100 kHz or 25 kHz |
| Audio Frequency Response: | 20 Hz – 20 kHz +/- 3dB |
| RF Power output: | Selectable; 25 or 50 mW |
| Frequency stability: | ± 0.002% |
| Digital Modulation: | 8 psk |
| Spurious radiation: | Compliant ETSI EN 300 422-1 v1.4.2 |
| Operating temperature range: | -20° C to +50° C |
| Input compressor: | Dual envelope compressor, >30 dB range |
| Gain control range: | 45 dB; semi-log menu-driven control; 1 dB steps |
| Modulation indicators: | Dual bicolor LEDs indicate modulation of -20, -10, 0 and +10 dB referenced to full modulation, LCD bar-graph indicator |
| Frequency response | 40 Hz to 20 kHz (+/- 1dB) |
| Low frequency roll-off: | -3 dB @35, 50 and 70 Hz; selectable; 36 dB/octave |
| Controls: | |
| External: | Programmable mute/talkback button |
| Battery compartment: | Power, mute disable, menu/select, up/down, and back arrow buttons for menu selection and settings |
| Battery: | 2x AA with polarity protection and battery ejector |
| Battery life: | At 50 mW: 5 hours (Duracell Quantum); battery status is transmitted to Lectrosonics receivers |
| Capsule Interface: | 1.25" opening and 28 thread pitch Power available: 5V, 25 mA max Input impedance: 1000 Ohms |
| Weight: | 12.1 oz. with batteries and HHC capsule |
| Dimensions: | 9.5" long x 1.97" diameter at largest point |

Emission Designator: 200KG1E

Specifications subject to change without notice.



581 Laser Road NE • Rio Rancho, NM 87124 USA • www.lectrosonics.com
+1(505) 892-4501 • fax +1(505) 892-6243 • (800) 821-1121 US and Canada • sales@lectrosonics.com

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