

Handheld Transmitter DHu, DHu/E01, DHu/E01-B1C1



The DHu Digital Hybrid Wireless handheld 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 (470.100 to 614.375 and 537.600 - 691.175 for export), 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
- Powered by two AA batteries
- 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 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.**



* Capsule sold separately.

** 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, DHu/E01 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.

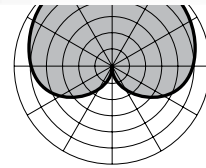


Battery Compartment

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

Frequency range:

DHu	470.100 - 607.950 MHz
DHu/E01	470.100 - 614.375 MHz
DHu/E01-B1C1	537.600 - 691.175 MHz

NOTE: It's the user's responsibility to select the approved frequencies for the region where the transmitter is operating

Frequency selection steps: Selectable; 100 kHz or 25 kHz

RF Power output: Selectable; 25 or 50 mW

Frequency stability: ± 0.002%

Digital Modulation: 8PSK

Spurious radiation:

DHu Compliant ETSI EN 300 422-1 v1.4.2

DHu/E01 and E01-B1C1 Compliant ETSI EN 300 422-1 v.2.1.2

Operating temperature range: -20° C to +50° C; -5° C to +122° F

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: 170KG7E

Specifications subject to change without notice.



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