

HHa/E01

Handheld Transmitter

TECHNICAL DATA



Digital Hybrid Wireless®

Digital Hybrid Wireless® is a revolutionary design that combines digital audio with an analog FM radio link to provide both outstanding audio quality and exemplary, noise-free RF performance. Using a patented algorithm to encode 24-bit digital audio information in the transmitter into an analog format, the encoded signal is then transmitted over an analog FM wireless link. At the receiver, the signal is then decoded to restore the original digital audio. This process eliminates compander artifacts and produces an audio frequency response flat to 20 kHz.

(US Patent 7,225,135)

- 25 or 100 kHz tuning steps for up to 3072 selectable frequencies across a 76 MHz tuning range
- Digital Hybrid Wireless® Technology
- Standard thread-on capsules
- Membrane switch and LCD interface
- AA battery power
- Selectable RF power at 25 and 50 mW
- Talkback feature
- IR (Infrared) Port for fast setup

The HHa/E01 Digital Hybrid Wireless handheld transmitter represents an elegant solution for a variety of wireless microphone applications including live performance, broadcast, AV rental and house of worship. The design incorporates many advanced features to provide high quality speech and vocal performance with outstanding, compander-free audio quality.

Convenient features include an IR port for automatic setup using an IR enabled receiver and a programmable button that can provide power on/off, audio mute and talkback functions. The LCD and a membrane switch panel provide access to all setup parameters.

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™, Telefunken® and others.*



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

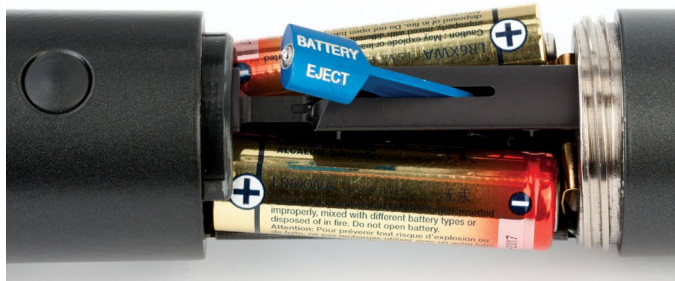


Selectable RF Transmission Power

The HHa/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, thus battery life is enhanced. The higher power setting provides greater range and resistance to dropouts. Selecting the RF power is accomplished using the control menu.

IR Sync

The HHa/E01 is equipped with an IR port for use with receivers. Settings, such as frequency stored in the receiver will be sent to the transmitter via the IR port.



Mute and Talkback Functions

The button on the back of transmitter below the head can be used to actuate an audio mute condition. This button can also be disabled using the control panel inside the battery compartment. An alternative function that can be actuated by this button is a talkback function. In this state, the transmitter sends a signal to the Venue receiver when the button is pushed - the receiver then switches the audio to a second output which can be routed differently.

This function can be used for talkback, cueing or other purposes depending on the application.

This functionality requires a Venue receiver with firmware version 5.2 or later.

Specifications

Operating Frequencies:[†]

Band A1:	470.100 - 537.575
Band B1:	537.600 - 614.375
Band 606:	606.000 - 631.500
Band C1:	614.400 - 691.175
Band D1:	691.200 - 767.975

Frequency selection steps:

Selectable; 100 kHz or 25 kHz

RF Power output:

Selectable at 25 or 50 mW

Pilot tone:

25 to 32 kHz frequency (400 Series only);
3.5 kHz deviation

Frequency stability:

± 0.002%

Deviation:

± 50 kHz (max.) Digital Hybrid Wireless mode

Spurious radiation:

90 dB below carrier

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, back and up/down arrow buttons for menu selection and settings.

Battery:

2x AA with polarity protection and battery ejector

Battery life:

At 50mW: 5.5 hours (Duracell Quantum alkaline)

Capsule Interface:

1.25" opening and 28 thread pitch
Power available: 5V, 25 mA max
Input impedance: 1000 Ohms

Weight:

11.4 oz. with batteries and HHC capsule

Dimensions:

9.5" long x 1.97" diameter at largest point

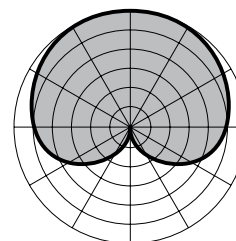
Emission Designer: 180KF3E

Specifications subject to change without notice.

[†] Not all frequency blocks available in all countries. Consult your local representative or contact Lectrosonics for more information.

CE1313!

**Lectrosonics HHC
Electret Capsule
Cardioid Pattern**



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15 February 2016