HH

TECHNICAL DATA

Digital Hybrid Wireless® Handheld Transmitter

HH, HH/E01, HH/E02

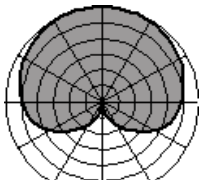
- Digital Hybrid Wireless® Technology
- Standard thread-on capsules
- Membrane switch and LCD interface
- AA battery power
- Selectable RF power at 10, 50 and 100 mW (varies per model - see specifications)
- Talkback feature
- IR Sync (Infrared)

The HH Digital Hybrid Wireless® handheld transmitter represents an elegant solution for a variety of wireless microphone applications including live performance, broadcast, AV rental and houses of worship. The HH incorporates many advanced features to provide high-quality speech and vocal reinforcement. Along with providing peerless audio quality with wide frequency response and dynamic range in native 400 Series mode, the technology used in the HH includes compatibility modes for Lectrosonics 200 Series, 100 Series and IFB receivers, and some systems from other top manufacturers. (Contact Lectrosonics for details.)

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.*

Lectrosonics HHC Electret Capsule - Cardiod Pattern



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 compandor artifacts and produces an audio frequency response flat to 20 kHz.

(US Patent 7,225,135)

* 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.

LECTROSONICS®
Rio Rancho, NM, USA
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Selectable RF Transmission Power

The HH 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 drop-outs. Selecting the RF power is accomplished using the control menu.

IR Sync

The HH is equipped with an IR (Firmware v2.10 infrared) 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: †

Block 470	470.100 - 495.600	Block 22	563.200 - 588.700
Block 19	486.400 - 511.900	Block 23	588.800 - 614.300
Block 20	512.000 - 537.500	Block 24	614.400 - 639.900
Block 21	537.600 - 563.100	Block 25	640.000 - 665.500
		Block 26	665.600 - 691.100

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

Frequency selection:	
(Normal Tuning mode);	256 frequencies in 100 kHz steps
(Fine Tuning mode)	1024 frequencies* in 25 kHz steps
	*except block 23 - contact Lectrosonics for details
Channel Step Size:	
Normal Tuning mode:	100 kHz
Fine Tuning mode:	25 kHz
RF Power output:	US: Selectable at 50 or 100 mW E01: 50mW (nominal) E02: 10mW
Compatibility Mode:	US: Hybrid, IFB, Mode 3, Mode 6. 100 Mode, 200 Mode E01: Digital Hybrid Wireless® (400 Series), IFB E02: Digital Hybrid Wireless®, IFB, Mode 3, Mode 6
Pilot tone:	25 to 32 kHz frequency - 5 kHz deviation (Hybrid, IFB, 200 Series, Mode 6)
Frequency stability:	± 0.002%
Deviation:	US: ± 75 kHz max. (Digital Hybrid mode) E01: ± 50 kHz max. (Digital Hybrid mode) E02: ± 45 kHz
Spurious radiation:	US: Compliant with ETSI EN 300 422-1 v1.4.2 E01/E02: 90 dB below carrier
Operating temperature range:	-30° C to +60° C
Input compressor:	Dual envelope compressor, >30 dB range
Audio Gain range:	0 to 45 dB; menu selectable
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 selectable @35, 50, 70, 100, 125 Hz, 36 dB/octave (varies slightly w/ selection)
Controls:	
External:	Programmable mute/talkback button
Internal control panel:	Power, Side Button Setup, MENU/SEL, BACK and Up/Down arrow buttons for menu item selection and settings.
Battery:	(2) AA with polarity protection and battery ejection lever
Battery Life:	5.5 hours (alkaline); 8-10 hours (lithium)
Battery Status Indication:	Transmitted to Lectrosonics Digital Hybrid and 200 Series receivers
Capsule Interface:	1.25 in. diameter x 28 thread pitch
Capsule Power available:	5V, 25 mA max
Input impedance:	1000 Ohms
Weight:	11.4 oz. with lithium batteries and HHC capsule
Dimensions:	9.5" long x 1.97" diameter at largest point with HHC capsule attached

CE 1313 ⓘ

Emission Designator: 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.

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