



LECTROSONICS DHu Series Digital Handheld Transmitter User Guide

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LECTROSONICS DHu Series Digital Handheld Transmitter



This guide is intended to assist with initial setup and operation of your Lectrosonics product. For a detailed user manual, down-load the most current version at: www.lectrosonics.com

Mechanical Assembly



Microphone Capsules:

Lectrosonics offers two types of capsules. The HHC is the standard capsule and the HHVMC is the Variable Mic Capsule which includes adjustments for Bass, Midrange and Treble.



- Along with these two models from Lectrosonics, a variety of different capsules with a common thread and electrical interface are available from the major microphone manufacturers.

Do not touch the contacts between the mic capsule and transmitter body. When necessary, the contacts can be cleaned with a cotton swab and alcohol.



Capsule Installation

Capsules are attached with a right-hand thread. To remove the windscreen from the mic capsule, line up the blue wrench (included with the capsule head) with the flat notches on the lower threaded area of the mic capsule.



Battery Installation



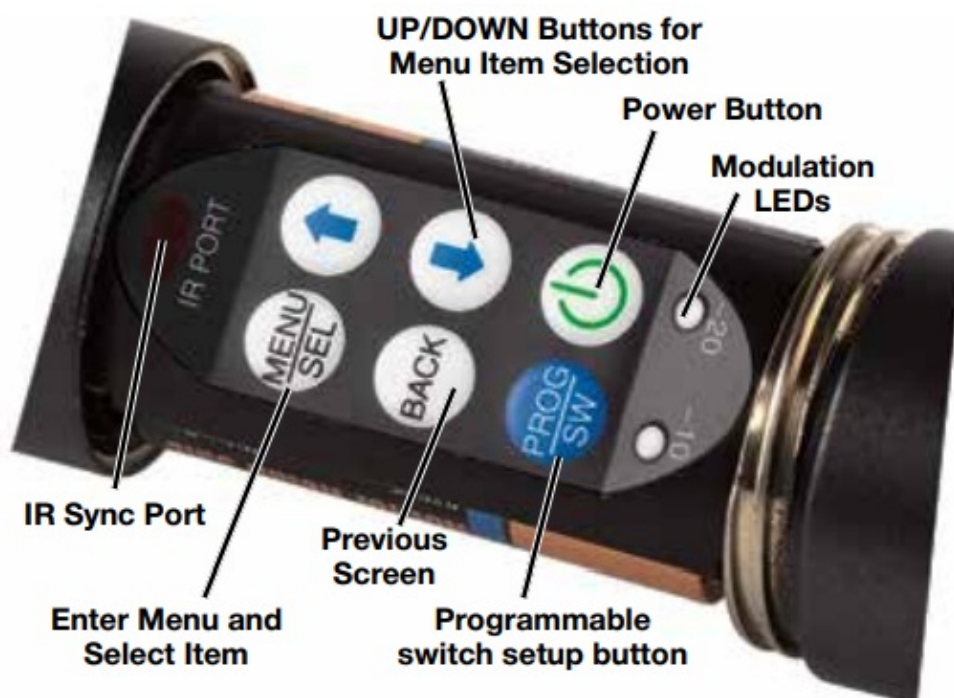
To insert batteries, close the eject lever and insert the upper contacts first (closest to the mic capsule). Polarity is marked on the label in the bottom of the battery compartment. The contacts are very tight to prevent the batteries from “rattling” as the transmitter is being handled. Pull the eject lever out-ward to remove the batteries. The battery tips will move outward, making them easier to grasp.

Pull eject lever outward to release batteries from contacts



Control Panel

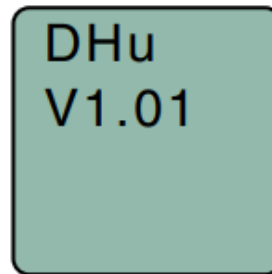
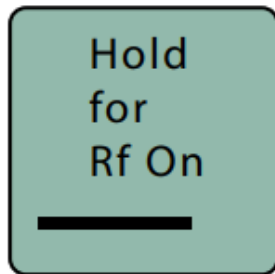
Six membrane switches on the control panel are used to set up the transmitter by navigating the menus on the LCD and selecting the desired values.



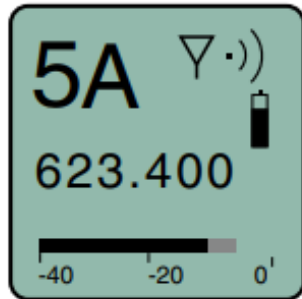
Setup and Adjustments

Powering On

Press and hold the Power Button until a status bar on the LCD is completed. The status bar will appear on the LCD, followed by a display of the model, firmware version, frequency band and compatibility mode.

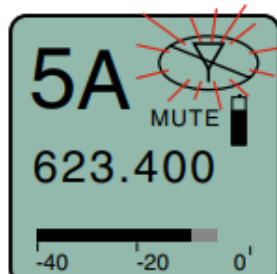


When you release the button, the unit will be operational with the RF output turned ON and the Main Window displayed.



**The Main Window
RF output ON**

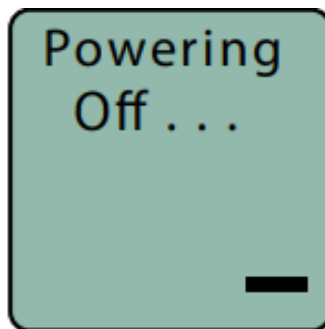
If you release the button before the status bar is complete, the unit will turn on in the Standby mode with the RF output turned OFF and the antenna icon will blink.



**The Main Window
RF output OFF**

Powering Off

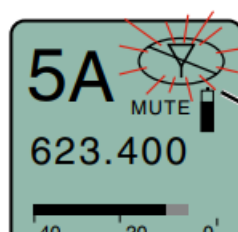
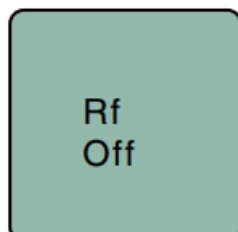
Press and hold the Power Button (or the side button if it is configured for turning the power on and off) while the status bar on the LCD is completed. The power will then be turned off. This can be done from any menu or screen.



NOTE: If the Power Button is released before the status bar has completed, the unit will remain turned on and the LCD will return to the same screen or menu that was displayed previously.

Standby Mode

A brief push of the keypad Power Button turns the unit on and places it into a “standby” mode (not transmitting). Press the button and release before the status bar completes. This allows the transmitter to be set up without the risk of creating interference for other wireless systems that are operating in the vicinity. A notice will appear briefly confirming that the RF output of the trans-mitter is turned off, followed by the Main Window. The antenna symbol will blink as a reminder that the RF output is turned off.

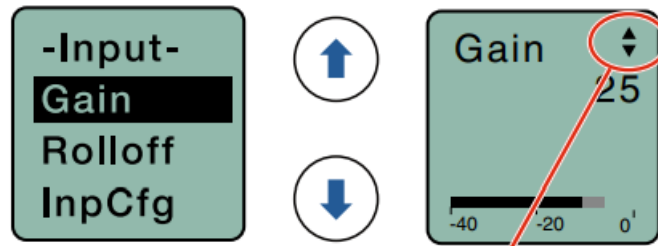


**Symbol blinks
when RF output
is turned OFF**

Main Menu and Setup Screen Details

Entering the Main Menu

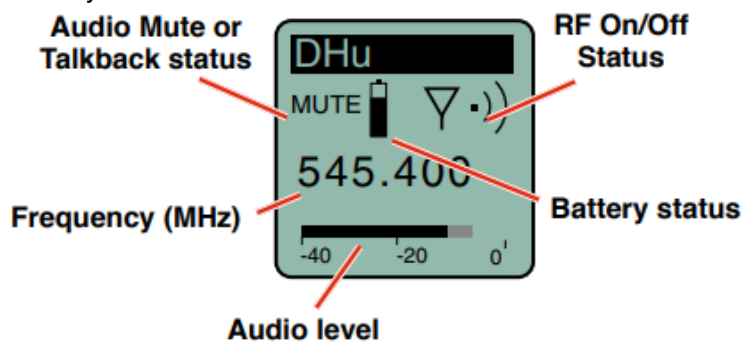
The LCD and keypad interface makes it easy to browse the menus and make the selections for the setup you need. When the unit is powered up in either the operating or the standby mode, press MENU/SEL on the keypad to enter a menu structure on the LCD. Use the UP and DOWN arrow buttons to select the menu item. Then press the MENU/SEL button to enter the setup screen.



The prompt in the upper right corner may display one or both arrows, depending upon what adjustment can be made. If the changes are locked, a small padlock symbol will appear.

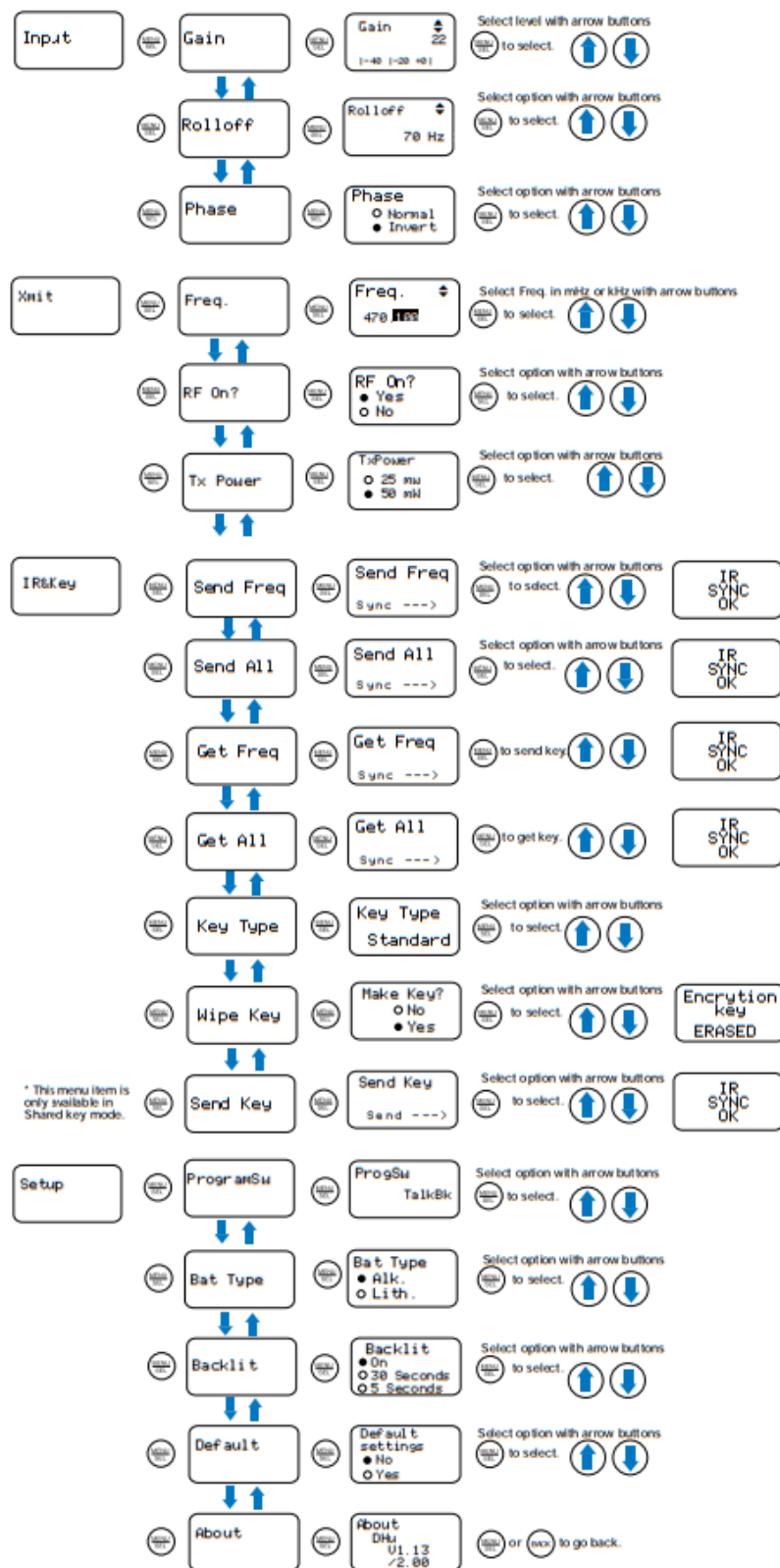
Main Window Indicators

The Main Window displays on/off status, talkback or audio mute status, standby or operating mode, operating frequency, audio level and battery status.



If the programmable switch function is set for Mute or Talkback, the Main Window will indicate that the function is enabled.

Menu Map



Menu Item Descriptions Input

Gain

Gain can be set, from -7 to +44, by using the up and down arrow buttons.

Adjusting the Input Gain

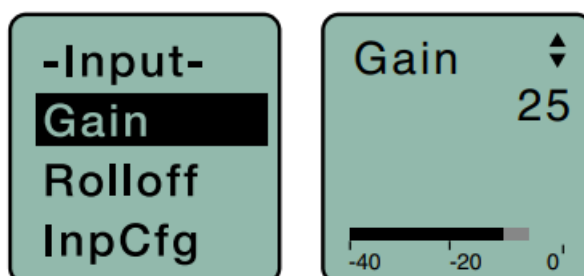
The two bicolor Modulation LEDs on the top panel provide a visual indication of the audio signal level entering the transmitter. The LEDs will glow either red or green to indicate modulation levels as shown in the following table.

Signal Level	-20 LED	-10 LED
Less than -20 dB	● Off	● Off
-20 dB to -10 dB	● Green	● Off
-10 dB to +0 dB	● Green	● Green
+0 dB to +10 dB	● Red	● Green
Greater than +10 dB	● Red	● Red

NOTE: Full modulation is achieved at 0 dB, when the “-20” LED first turns red. The limiter can cleanly handle peaks up to 30 dB above this point.

It is best to go through the following procedure with the transmitter in the standby mode so that no audio will enter the sound system or recorder during adjustment.

1. With fresh batteries in the transmitter, power the unit on in the standby mode (see previous section Powering On in Standby Mode).
2. Navigate to the Gain setup screen.

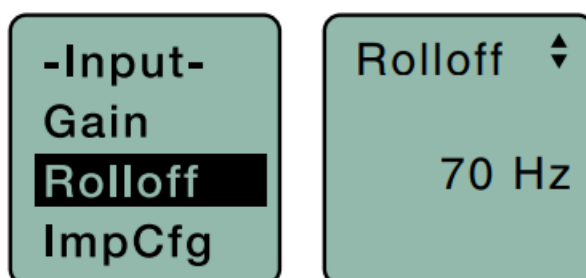


3. Prepare the signal source. Position a microphone the way it will be used in actual operation and have the user speak or sing at the loudest level that occur during use, or set the output level of the instrument or audio device to the maximum level that will be used.
4. Use the UP and DOWN arrow buttons to adjust the gain until the 10 dB glows green and the –20 dB LED starts to flicker red during the loudest peaks in the audio.
5. Once the audio gain has been set, the signal can be sent through the sound system for overall level adjustments, monitor settings, etc.
6. If the audio output level of the receiver is too high or low, use only the controls on the receiver to make adjustments. Always leave the transmitter gain adjustment set according to these instructions, and do not change it to adjust the audio output level of the receiver.

Rolloff (Low Frequency Roll-off)

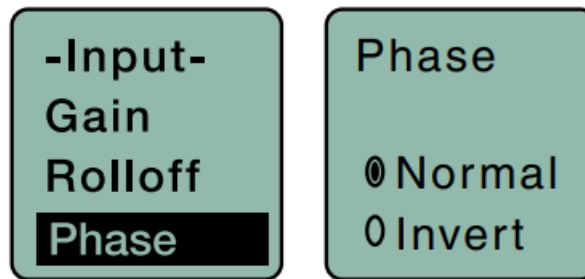
The low frequency audio roll-off is adjustable to optimize performance for ambient noise conditions or personal preference.

Low frequency audio content may be desirable or distracting, so the point at which the roll-off takes place can be set to 20, 35, 50, 70, 100, 120 or 150 Hz.



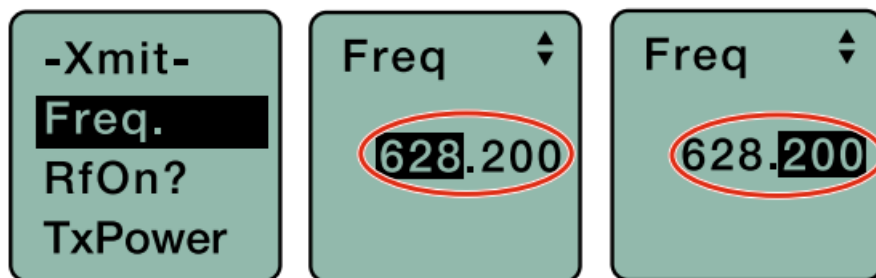
Phase (Selecting Audio Polarity)

This setting allows for configuration for use with certain microphones, or for setting custom parameters.



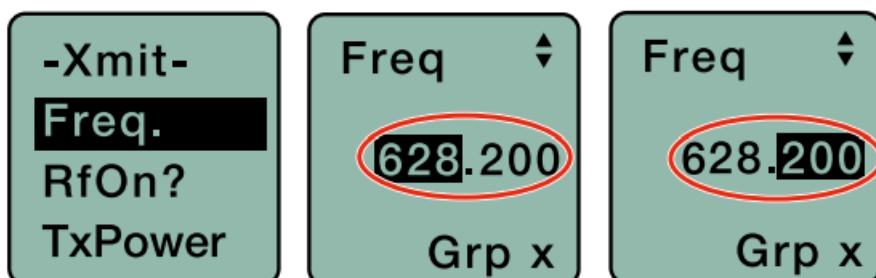
Xmit Setting Frequency

Frequency (mHz and kHz) in can be set by using the MENU/SEL button to choose mHz or kHz and the UP and DOWN arrows to adjust frequency



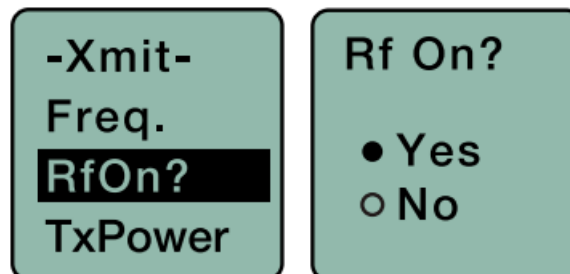
Tuning Groups

Tuning groups can be received via IR (Infared) port sync from a receiver. The group frequencies are set by the receiver. The group names will be displayed the bottom of the screen as Grp x, Grp w, Grp v, or Grp u. Use the MENU/SEL button to toggle between options and the UP and DOWN arrow buttons to adjust.



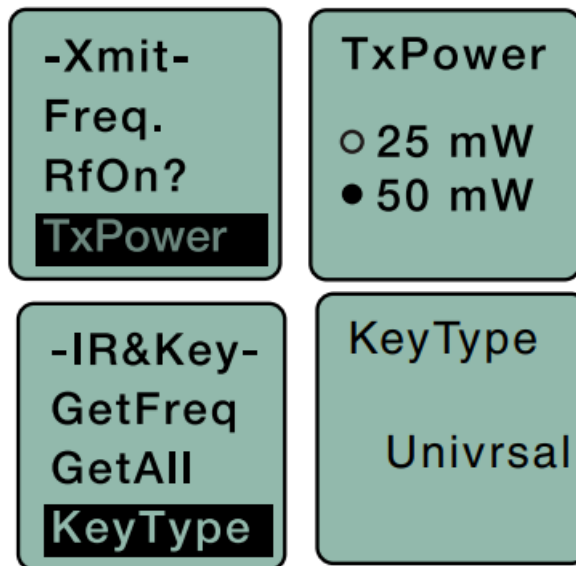
RF On?

Turn Rf off to preserve battery power while setting other transmitter functions. Turn it back on to begin transmitting.. Use the UP and DOWN arrow buttons to toggle and MENU/SEL to save.



TxPower

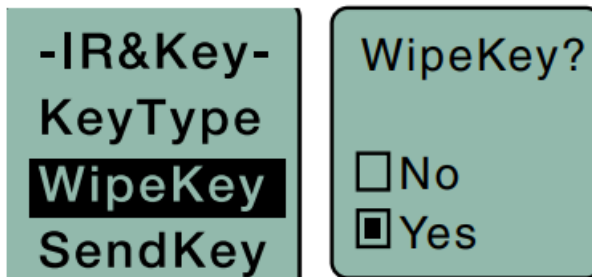
Allows the transmitter output power to be set as 25 or 50 mW. Use the UP and DOWN arrow buttons to scroll and MENU/SEL to save.



Note: If there is a key mismatch, the key verification LED will blink.

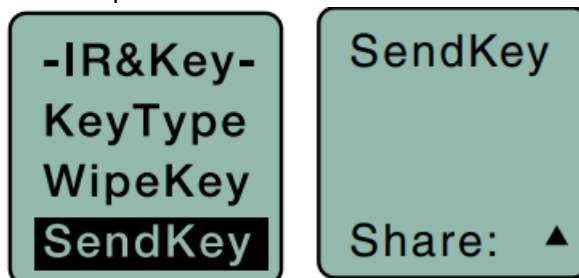
WipeKey

This menu item is only available if Key Type is set to Standard, Shared or Volatile. Select Yes to wipe the current key and enable the DBu to receive a new key



SendKey

This menu item is only available if Key Type is set to Shared. Press MENU/SEL to sync the Encryption key to another transmitter or receiver via the IR port.

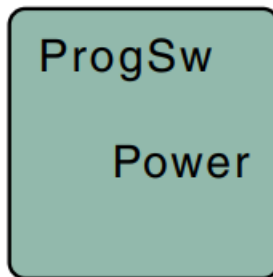


Setup

ProgSw (Programmable Switch Functions)

The programmable switch on the top panel can be configured using the menu to provide several functions:

- (none) – disables the switch
- Mute – mutes the audio when switched on; LCD will display a blinking “MUTE” and the -10 LED will glow solid red.
- Power – turns the power on and off
- TalkBk – switches the audio output on the receiver to a different channel for communication with the production crew. Requires a receiver with this function enabled.

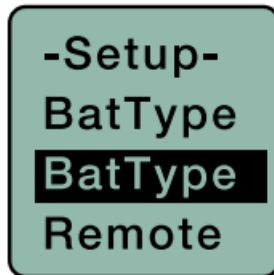


Use the UP and DOWN arrow buttons to select the desired function or disable the switch

NOTE: The programmable switch will continue to operate whether or not settings are locked.

Selecting Battery Type

The voltage drop over the life of batteries varies by type and brand. Be sure to set the correct battery type for accurate indications and warnings. The menu offers alkaline or lithium types.



If you are using rechargeable batteries, it is better to use the timer function on the receiver to monitor the battery life rather than the indicators on the transmitter. Rechargeable batteries maintain a fairly constant voltage across the operating time on each charge and stop working abruptly, so you will have little or no warning as they reach the end of operation.

Backlit

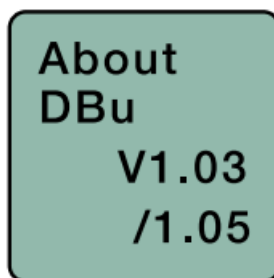
Sets the screen backlight to be always on, on for 30 seconds or on for 5 seconds.

Restoring Default Settings (Default)

This is used to restore the factory settings.

About

This shows version and firmware information.



Programmable Switch Functions

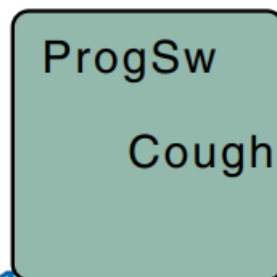
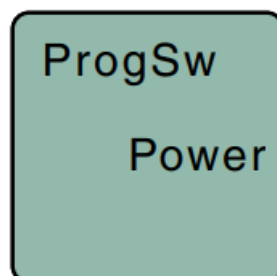
A special button on the outside of the housing can be configured to provide several different functions, or to be inoperative by selecting(none).



The ProgSw button on the keypad opens a setup screen to select the programmable switch function. Enter this setup screen and then use the UP/DOWN arrows to select the desired function and press the MENU/SEL button to return to the Setup Window.



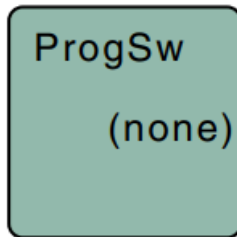
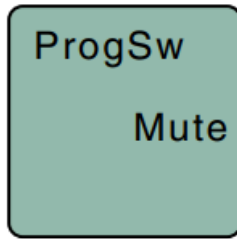
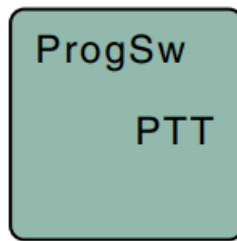
The ProgSw menu provides a scrollable list of the available functions. Use the UP/DOWN arrows to highlight the desired function and press BACK or MENU/SEL to select it and return to the main menu.



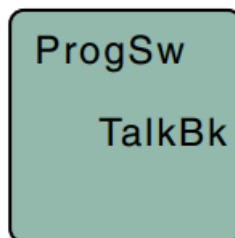
- Power turns the power on and off. Hold the button on the housing in until the countdown sequence from 3 to 1 is completed. The power will then be turned off.

NOTE: When the button on the housing is set to Power, it will turn on the transmitter in the operating mode with the RF output on.

- Cough is a momentary mute switch. Audio is muted while the button on the housing is held in.



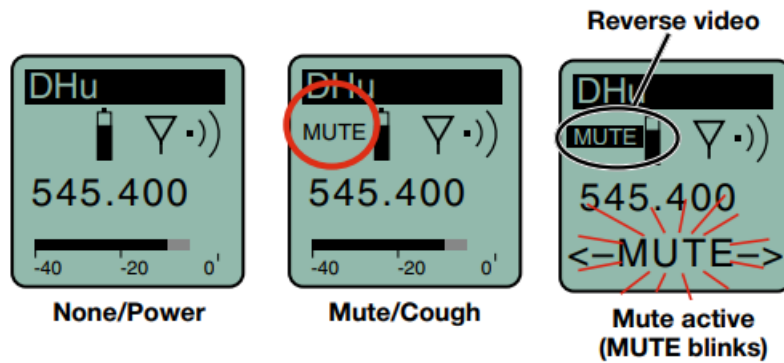
- Push To Talk is a momentary talk switch. Audio is transmitted while the button on the housing is held (opposite of cough)
- Mute is a “push on/push” off function that toggles on and off each time the button on the housing is pressed. The mute function defeats the audio in the transmitter, so it works in all compatibility modes and with all receivers.
- (none) disables the button on the housing.



- TalkBk is a “push to talk” function that is active only while the button is pressed. The talkback function provides a communication channel when used with a receiver equipped with this function, such as a Venue Wideband receiver with firmware Ver. 5.2 or higher. When pressed and held in, the side button re-directs the audio output to a different audio channel on the receiver. As soon as the switch is released, audio is returned to the program channel.

Main Window Displays for Function

The function of the Programmable Switch is displayed in the LCD Main Window. In the None and Power functions, no indication is displayed. In the Mute and Cough functions, the word MUTE is displayed.



LIMITED ONE YEAR WARRANTY

The equipment is warranted for one year from date of purchase against defects in materials or workmanship provided it was purchased from an authorized dealer. This warranty does not cover equipment which has been abused or damaged by careless handling or shipping. This warranty does not apply to used or demonstrator equipment. Should any defect develop, Lectrosonics, Inc. will, at our option, repair or replace any defective parts without charge for either parts or labor. If Lectrosonics, Inc. cannot correct the defect in your equipment, it will be replaced at no charge with a similar new item. Lectrosonics, Inc. will pay for the cost of returning your equipment to you. This warranty applies only to items returned to Lectrosonics, Inc. or an authorized dealer, shipping costs prepaid, within one year from the date of purchase. This Limited Warranty is governed by the laws of the State of New Mexico. It states the entire liability of Lectrosonics Inc. and the entire remedy of the purchaser for any breach of warranty as outlined above. NEITHER LECTROSONICS, INC. NOR ANYONE INVOLVED IN THE PRODUCTION OR DELIVERY OF THE EQUIPMENT SHALL BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL, OR INCIDENTAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THIS EQUIPMENT EVEN IF LECTROSONICS, INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL THE LIABILITY OF LECTROSONICS, INC. EXCEED THE PURCHASE PRICE OF ANY DEFECTIVE EQUIPMENT.

This warranty gives you specific legal rights. You may have additional legal rights which vary from state to state.

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Documents / Resources

<p>Quick Start Guide</p> <p>Digital Handheld Transmitter DHu, DHu E01, DHu E01-B1C1</p> <p>The DHu Series is a digital, encrypted, digital wireless microphone system. It is designed for use in a variety of applications, including live performance, broadcast, and recording. The system consists of a digital handheld transmitter and a digital receiver. The transmitter is powered by a 9V battery and has a range of up to 1000 feet. The receiver is powered by a 9V battery and has a range of up to 1000 feet. The system is easy to use and provides excellent sound quality.</p>	<p>LECTROSONICS DHu Series Digital Handheld Transmitter [pdf] User Guide</p> <p>DHu, DHu E01, DHu E01-B1C1, DHu Series Digital Handheld Transmitter, DHu Series, Digital Handheld Transmitter, Digital Transmitter, Handheld Transmitter, Transmitter</p>
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References

- [Lectrosonics: Quality wireless microphone, encrypted digital wireless and DSP audio processing systems](#)