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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT

900 MHz RF Transmitter

MODEL 441UP-HHED-4-001

DESCRIPTION

The AIR-EAGLE XLT MODEL 441UP-HHED-4-001 is a handheld R.F. transmitter designed to work with receiver model 441AN/DP-5-0003 to provide wireless on/off and speed control of equipment at distances up to 2500 feet. Buttons 1 & 3 send On/Off commands to a dry contact relay output and buttons 2 & 4 increase and decrease an analog output. The stop button de-energizes the relay in the receiver and disables all other functions while depressed. The LCD display gives feedback of the relay status and analog output the receiver is producing. Eight user-programmable frequencies allow multiple systems to operate simultaneously in the same area without interference.

INITIAL SET-UP

This transmitter comes ready to operate and factory programmed to Frequency #1, and High Power. See "Menu Settings" section for information on changing any of these parameters.

OPERATION

Button 1 – Turns on relay in receiver

Button 2 – Increases Analog output of receiver

Button 3 – Turns off relay in receiver

Button 4 – Decreases Analog output of receiver

When any of these buttons is pressed it will show the corresponding status of the receiver on the right side of the screen. This level will be updated in real time when adjusting the level with either buttons 2 or 4.



Dimensions – 4.0" L x 4.0" W x .16" D
(note: Stop button and belt clip adds 1.15" to depth)

CONTROLS & INDICATORS

TX Display	Button 1 – Shows Relay: ON and analog level
	Button 2 – Shows Level: UP and analog level
	Button 3 – Shows Relay: OFF and analog level
	Button 4 – Shows Level: DOWN and analog level
E-Stop Button	Transmits E-stop command to immediately de-energize the relay in the receiver. The display will blink "STOP" in large letters when this button is pressed. No other buttons will operate while this is pressed.
Power/Select	When first pressed this will show the frequency, battery level and analog level for 5 seconds. Pressing again will cycle through menu options (See MENU SETTINGS)
Menu Button (2)	While in menu mode this button allows changes to the current menu item. (See MENU SETTINGS)

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MENU SETTINGS

Press the 'Power/Select' button to bring up the settings that can be adjusted.

- The first press will bring up the Status display with frequency, analog level and battery level. This is a read only display
- The second press brings it to the Frequency setting menu with its current selection (from 1 through 8).
- The third press brings it to the Power level menu with its current selection (either Low, Mid or High)

When in either frequency or power level, pressing the Menu button starts the selection changing process. A cursor will start blinking on the selection. Pressing Menu again will now change the setting. Keep pressing Menu until the desired setting is reached, **then press the Power/Select button for the setting to take effect.** The display will show "Saving".... then "Done" when the setting has been changed.

NOTE 1: Menu mode will stay on for 15 seconds after the last button press. If no button is pressed during this time, the unit will go back to sleep and any unsaved setting changes will be lost.

NOTE 2: At any time while in menu mode, pressing buttons 1, 3 or 4 will cause the unit to immediately exit menu mode and go back to sleep. Not saving any settings that haven't been saved to memory.

CHARGING

Charging is accomplished by plugging in any 5V USB charger into the micro USB connector on the side of the box.

Charging while powered ON - When first plugged in the unit will display "Charging" with the battery percentage underneath. The characters will then change to a rotating "+".

Charging while powered OFF – When first plugged in the unit will display "Charging" will the battery percentage underneath, then go blank. Pressing buttons 1,2 3 or 4 will show unit # and current charge level then turn off

When the micro USB plug is unplugged the display will show 'Battery' with the percentage below then turn off. The battery is fully charged when the percentage gets to 100%.

SPECIFICATIONS

Keypad	Durable Sealed Microswitch Keypad – Eliminates Dust, Dirt and Moisture Failures
Enclosure	ABS Plastic with Aluminum Ring
Enclosure Rating	IP40 *Not Waterproof
Battery Power	Internal Non-User Replaceable 3.7V, 2000 mAh Rechargeable Lithium Ion
Battery Life (Active Usage)	Several days of Continuous Operation
Battery Life (Sleep Mode)	Approximately 45 Days
Charging Requirement	Micro USB Cable 5V @ 1amp
Charging Time	Approximately 3-4 Hours
Transmit Frequency	900MHz Spread Spectrum
RF Output Power	250 mW
Transmit Channels	Eight Independent Network Frequencies
Transmit Range	Up to 2500 Feet
Note: Max range figures are estimates, based on free-air terrain with limited sources of interference. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting antenna, height of receiving antenna, weather conditions, interference sources in the area, and terrain between receiver and transmitter, including, but not limited to, indoor and outdoor structures such as walls, metal objects, trees, buildings, hills, and mountains.	
Operating Temperature	-40° F to +185° F
Approximate Weight	0.6 lbs (with belt clip)

APPROVALS

United States (FCC)	MCQ-XB900HP
Canada (IC)	1846A-XB900HP

LIMITED WARRANTY STATEMENT

BWI Eagle Inc. warrants the Air-Eagle Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage due to external causes, including accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. This warranty also does not cover water damage to any handheld transmitter. This limited warranty, and any implied warranties that may exist under state law, apply only to the original purchaser of the equipment, and last only for as long as such purchaser continues to own the equipment. This warranty replaces all other warranties, express or implied including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose. BWI Eagle makes no express warranties beyond those stated here. BWI disclaims without limitation, implied warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you. To obtain warranty service, contact BWI Eagle for a return material authorization. When returning equipment to BWI Eagle, the customer assumes the risk of damage or loss during shipping and is responsible for the shipping costs incurred.

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