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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT PLUS 900 MHz RF Transmitter MODEL 465U-HHEBD-4

DESCRIPTION

The AIR-EAGLE XLT PLUS TX is a handheld R.F. transmitter capable of sending unique digital commands to an Air-Eagle XLT PLUS Receiver located up to 5000 feet away. This transmitter has been designed to link to receiver model 465-8-ESTOP for failsafe operation.

Note #1 – Wireless E-Stop devices can not take the place of a wired safety system and are not to be considered a primary, life-saving device. They are only to be used as a secondary safety accessory.

Note #2: 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.

INITIAL SET-UP

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

SYSTEM ON/OFF

Turn System On:

Depress and hold the Power/Select button. The display will count down 3...2...1, then show "Power On" when the unit has turned on. Release the Power/Select button and the unit will begin to transmit a beacon signal to the receiver approximately every 0.5 seconds.

Turn System Off:

Depress and hold the Power/Select button. The display will count down 3...2...1 then show "Power Off" when the unit has turned off. At this point the beacon will stop and a log out code will be transmitted to the receiver. This will turn off the corresponding "login" relay on the receiver and allow the transmitter to log back in later.

NOTE: If the Power/Select button is released at any point during the power on/off countdown the unit will stay in its current state and the countdown counter will reset.



Dimensions – 4.0" L x 4.0" W x 1.6" D
(note: Stop button and belt clip adds 1.15" to depth)

CONTROLS & INDICATORS

TX Display	<p>When transmitting a beacon signal the display will rotate a different character around the outside of the screen to show that it is transmitting. The character is as follows:</p> <ul style="list-style-type: none"> – Normal operation (Battery is discharging) + Battery is charging L Battery is discharging, and level is below 10%
E-Stop Button	Transmits E-stop command to immediately de-energize all relays in the receiver. The display will blink "STOP" in large letters when this button is pressed
Buttons 1, 2, 3 and 4	While unit is powered on, momentarily pressing any of these buttons will allow the display to show the unit # and battery level
Menu Button (2)	While unit is powered off, brings up menu mode (see "MENU SETTINGS" page 2)
Signal Strength (4)	While unit is powered off, measures average signal strength to receiver. (See "SIGNAL STRENGTH" page 2)

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SIGNAL STRENGTH OPERATION

Note: Signal strength can only be accessed when the transmitter is powered OFF.

Press button 4 and hold. The display will show "Signal Scan 3...2...1...START".

Release button 4. The transmitter will receive 10 samples and display "Avg. Signal: 40dB (strongest) to 110dB (weakest)" signal strength.

If during signal scan it receives no response from the receiver, the test will end, and "Out of Range" will appear on display. Move to a closer location and follow the steps above to repeat the test.

If the signal scan ends with the display showing "ERROR", this typically means noise or other RF signals are preventing some of the measured signals from reaching the receiver. Try moving to another location or consult with BWI Eagle for assistance.

MENU SETTINGS

Note: Menu Mode (Button 2) can only be accessed when transmitter is powered OFF.

Press the 'Menu' button to bring up the settings that can be adjusted.

- The first press will bring up the Frequency selection with the current frequency (from 1-8).
- The second press brings it to the Power Level menu with its current selection (either Low, Mid or High).
- The third press brings up the Unit # setting (either 1 or 2).

When in any of these settings, pressing the Power/Select button starts the selection changing process. A cursor will start blinking on the selection. Pressing Power/Select again will now change the setting. Keep pressing Power/Select until the desired setting is reached, **then press the Menu 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.

UNIT NUMBER

This model can be used in conjunction with another transmitter that is operating the same receiver using different sets of relays. The user must set up the Unit # under "Menu Settings". The Unit # transmits signals to the receiver in the following manner:

UNIT Number	Stop Signal	Link Loss Signal
1	1	3
2	2	4

Relay logic and operation is set up in the receiver. Please see the model 465-8-STOP product bulletin for instructions.

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)	8-9 Hours of Continuous Operation
Battery Life (Sleep Mode)	Approximately 4 Months
Charging Requirement	Micro USB Cable 5V @ 1amp
Charging Time	Approximately 2 Hours to Full Charge
Transmit Frequency	900MHz Spread Spectrum
RF Output Power	1 W
Transmit Channels	Eight Independent Network Frequencies
Transmit Range	Up to 5000 Feet LOS
Operating Temperature	-40° F to +185° F
Approximate Weight	0.6 lbs (with belt clip)

APPROVALS

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

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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.

DOCUMENT DATE: 10/12/20 / PRODUCT REV.0



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