BWI EAGLE

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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT PLUS
900 MHz RF Transmitter
MODEL 461-HH-4-VBR

DESCRIPTION

The AIR-EAGLE XLT PLUS TX IS a handheld R.F. transmitter capable of sending four unique digital commands to an Air-Eagle XLT Plus receiver located up to 5000 feet away. This model is equipped with a vibrating feedback that confirms to the user that the transmitted signal has reached the receiver. The TXs and RXs can be combined in any quantity to create a long range radio frequency system that operates hazardous or hard-to-reach electrical apparatus from safe, convenient locations. Eight user-selectable frequencies allow multiple systems to operate simultaneously in the same area without interference.

INITIAL OPERATION & SET-UP

This transmitter comes ready to operate, with batteries installed, and at the factory default settings. No setup is necessary unless you wish to change the frequency. If so, follow the steps outlined on the next page.

SPECIFICATIONS

Transmit Frequency	900 MHz Spread Spectrum
RF Networks	Eight Independent Network Frequencies
RF Output Power	1 W
Transmit Range	Up to 5000 Feet
Note: 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	-40º F to +185º F
Keypad	Durable Sealed Membrane Keypad – Eliminates Dust, Dirt and Moisture Failures
Enclosure	ABS UL94 HB
Protective Ring	SEBS (TPE)
	Enclosure with ring is rated IP54 *Not Waterproof
Power Requirements	3.0 VDC
Battery Type	(2) 1.5V lithium each, size AAA, to equal 3.0VDC nominal. *Note – For best performance/range be sure to use ONLY lithium batteries!
*Note: Current frequency settings are maintained in flash memory during battery replacement. No reprogramming of user settings is necessary!	
Battery Life (Active Usage)	Up to 3 months
Battery Life (Sleep Mode)	Up to 6 months

Dimensions – 4.14" L x 2.29" W x .74" D
(note: belt clip adds .48" to depth)

CONTROLS & INDICATORS

TX LED	Illuminates continuously while button is depressed, and unit is transmitting. When this LED blinks briefly following a transmission, the battery needs to be replaced. See Note #1
Note #1 – The low battery notification signals have been improved to provide more noticeable indications and to safely disable communications BEFORE a low battery condition can corrupt internal memory causing device failure. When a low battery is first detected, the TX LED will blink several times after all buttons are released. If it is possible to replace the batteries now, please do so. If not, the operator has approximately 15 more button activations. During this time, when a button is depressed and held, the TX LED will blink SLOWLY. The slow blinking will continue several more times after all buttons are released. Transmissions are still being sent to the receiver during this time. When a button is depressed and the TX LED is RAPIDLY blinking, the RF output is disabled and NO signal will reach the receiver. The batteries MUST NOW BE REPLACED to resume normal functions.	
Pushbuttons 1 thru 4	Transmit corresponding channel commands to the remote receiver
Vibrate Alert	Vibration confirming the transmitted signal has reached the receiver successfully

APPROVALS

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

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FREQUENCY PROGRAMMING

Please read through these instructions completely before beginning programming procedure!

*At any time, you can check the current frequency setting by depressing Buttons 3 & 4 simultaneously, for approximately 4 seconds, until the TX LED is illuminated "**RED**". Then release all buttons and watch until the TX LED begins to blink. The TX LED will blink "**RED**" one, two, three or four times for Frequencies 1 thru 4, or will blink "**GREEN**" one, two, three or four times for Frequencies 5 thru 8 accordingly. See table below for clarification.*

LED Flashes:	Indicates Unit is Operating On:
RED – one time	**Frequency 1**
RED – two times	**Frequency 2**
RED – three times	**Frequency 3**
RED – four times	**Frequency 4**
GREEN – one time	**Frequency 5**
GREEN – two times	**Frequency 6**
GREEN – three times	**Frequency 7**
GREEN – four times	**Frequency 8**

To change the setting, follow these steps:

To select from Frequencies 1 thru 4:

1. Depress Buttons 3 & 4 simultaneously until the TX LED is illuminated "**RED**". (Approximately 4 seconds)

2. Release Buttons 3 & 4, then while the TX LED is still illuminated "**RED**", depress button #1 to select "Frequency 1" or button #2 to select "Frequency 2" etc. If the transmit LED goes out before you have selected a network, no settings will have changed, **and** the LED will blink corresponding to the frequency that the TX is currently set to. You must then begin again at step 1 if you wish to change the current setting.

3. The TX LED will blink to confirm that your frequency selection has been accepted, and then will go out. For instance, if you have selected Frequency #1, the TX LED will blink "**RED**" *once* to confirm. If you have selected Frequency #4, the TX LED blinks "**RED**" *four times* to confirm.

To select from Frequencies 5 thru 8:

1. Depress Buttons 3 & 4 simultaneously until the TX LED is illuminated "**GREEN**". (Approximately 7 seconds)

2. Release Buttons 3 & 4, then while the TX LED is still illuminated "**GREEN**", depress button #1 to select "Frequency 5" or button #2 to select "Frequency 6" etc. If the transmit LED goes out before you have selected a network, no settings will have changed, **and** the LED will blink corresponding to the frequency that the TX is currently set to. You must then begin again at step 1 if you wish to change the current setting.

3. The TX LED will blink to confirm that your frequency selection has been accepted, and then will go out. For instance, if you have selected Frequency #5, the TX LED will blink "**GREEN**" *once* to confirm. If you have selected Frequency #6, the TX LED blinks "**GREEN**" *two times* to confirm.

Programming is now complete, and the transmitter is active for normal operation.

You may repeat the above procedure if you wish to change the frequency at any time. See note* in SPECIFICATIONS.

LIMITED WARRANTY STATEMENT