



105 Bonnie Drive
Butler, PA 16002
724-283-4681
724-283-5939 (fax)
www.bwieagle.com

PRODUCT INFORMATION BULLETIN

AIR-EAGLE® SR PLUS 2.4 GHz RF Transmitter MODEL 36-HH-1-VBR

DESCRIPTION

The Air-Eagle SR PLUS TX is a handheld R.F. transmitter capable of sending a unique digital command to an Air-Eagle SR Receiver located up to 600 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 medium-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. This transmitter will automatically go into "sleep" mode when not in use to dramatically extend battery life

INITIAL OPERATION & SET-UP

This transmitter comes factory set to frequency 1, to operate relay 1 and transmitting at power level 4 (max range of 600 feet). If you wish to change the default settings, follow the instructions for FREQUENCY PROGRAMMING, RELAY PROGRAMMING, AND POWER LEVEL PROGRAMMING on page 2.

SPECIFICATIONS

Keypad	Durable Sealed Membrane Keypad – Eliminates Dust, Dirt and Moisture Failures	
Enclosure	ABS UL94 HB	Enclosure with ring is rated IP54 *Not Waterproof
Protective Ring	SEBS (TPE)	
Power Requirements	3.0 VDC	
Battery Type	(2) 1.5V lithium each, size AAA, to equal 3.0VDC nominal.	
*Note: Current frequency settings are maintained in flash memory during battery replacement. No reprogramming of frequency settings is necessary!		
Battery Life (Active Usage)	Up to 3 months	
Battery Life (Sleep Mode)	Up to 1 Year	
Transmit Frequency	2.4GHz Spread Spectrum	
RF Networks	Eight Independent Frequencies	
RF Output Power	User Selectable from 1mW - 60 mW	
Max Transmit Range	User-Selectable from 100 - 600 Feet	
<small>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</small>		
Operating Temperature	-40° F to +185° F	



Dimensions – 4.25" L x 2.68" W x .91" D
(note: belt clip adds .43" 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*
Pushbutton	Transmits an individual RF code to the receiver
Vibrate Alert	Vibration confirming that signal has been transmitted successfully

APPROVALS

United States (FCC)	MCQ-XBEE3
Canada (IC)	1846A-XBEE3
Europe (CE)	ETSI

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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FREQUENCY PROGRAMMING

Please read through these instructions completely before beginning programming procedure!

All transmitters are set to Frequency #1 by default. The frequency can be changed at any time by following the procedure below. Once changed, we recommend labeling the transmitter with the selected frequency number. Frequency settings will not be changed during normal battery replacement.

The TX LED guides you through the programming procedure. To change the setting, follow these steps:

To select from Frequencies 1 thru 8:

1. Remove the battery cover from the back of the transmitter
2. Remove ONE of the batteries from the holder (be sure to note polarity so it is re-inserted properly in the following steps)
3. Using one hand, depress and hold down Button 1 on the transmitter. While holding button down, re-insert the battery into the holder.
4. With button #1 still depressed and battery in holder, keep the button pressed for 5 seconds until the LED turns **RED**.
5. Release button #1 and the TX LED will begin to blink. As shown in chart above, the TX LED will blink **RED** for frequencies 1 thru 4 and will blink **GREEN** for frequencies 5 thru 7.
6. To set the frequency, you must momentarily press button #1 **immediately** after the LED has blinked the number of times for the desired frequency. **For example, to set to frequency 6, you release button #1 and watch as the LED blinks RED four times, then GREEN twice, THEN quickly press the button to set the TX to frequency 6.**

Press Button Immediately After:	To Set Unit To:
The First RED Flash	Frequency 1
The Second RED Flash	Frequency 2
The Third RED Flash	Frequency 3
The Fourth RED Flash	Frequency 4
The First GREEN Flash	Frequency 5
The Second GREEN Flash	Frequency 6
The Third GREEN Flash	Frequency 7
The Fourth GREEN Flash	Frequency 8

7. Once you have momentarily pressed the button to set the frequency, the TX LED will confirm your selection by blinking the numbers of times for the frequency that was set. (Note, if the confirmation shows the incorrect frequency, simply restart the programming from Step 1.
8. Once the proper selection has been confirmed, programming is complete. Replace battery cover tightly.

NOTE – if you fail to select a frequency during the programming procedure the transmitter will blink the frequency currently set in the transmitter as shown in the chart above. This can be used to view the transmitter's frequency without changing it.

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

RELAY PROGRAMMING

Please read through these instructions completely before beginning programming procedure!

All transmitters are set to operate Relay #1 in the remote receiver by default. The relay to be operated can be changed at any time by following the procedure below. Once changed, we recommend labeling the transmitter with the selected relay number. If unsure of which relay the transmitter is set to operate, follow steps 1 thru 6 below. Relay settings will not be changed during normal battery replacement.

To view which Relay unit is set to operate:

1. Remove the battery cover from the back of the transmitter
2. Remove ONE of the batteries from the holder (be sure to note polarity so it is re-inserted properly in the following steps)
3. Using one hand, depress and hold down Button 1 on the transmitter. While holding button down, re-insert the battery into the holder.
4. With button #1 still depressed and battery in holder, keep the button pressed for 5 seconds until the LED turns **RED**.
5. Keep holding button #1 in until the LED turns **GREEN**. (about 2 more seconds).
6. Release button and wait while the LED stays GREEN for about 8 seconds, goes out, then begins to blink. The LED will then blink **GREEN** the number of times equal to the relay number it is set to operate.

To select the Relay you wish to operate:

1. Remove the battery cover from the back of the transmitter
2. Remove ONE of the batteries from the holder (be sure to note polarity so it is re-inserted properly in the following steps)
3. Using one hand, depress and hold down Button 1 on the transmitter. While holding button down, re-insert the battery into the holder.
4. With button #1 still depressed and battery in holder, keep the button pressed for 5 seconds until the LED turns **RED**.
5. Keep holding button #1 in until the LED turns **GREEN**. (about 2 more seconds).
6. Release button and quickly press the number of times equal to the relay number you wish to operate.
7. Once you stop pressing for three seconds, the LED will blink back **GREEN** the number of times of the relay it's now controlling to confirm your selection.
8. If you didn't make the proper relay selection, you must repeat the procedure beginning at Step 3.

You may repeat the above procedure anytime you wish to change which relay the transmitter is to operate See note* in SPECIFICATIONS.

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POWER LEVEL PROGRAMMING

Please read through these instructions completely before beginning programming procedure!

All transmitters are set to Power Level #4 (max range 600 ft) default. The power level can be changed at any time by following the procedure below. Power level settings will not be changed during normal battery replacement.

The TX LED guides you through the programming procedure. To change the setting, follow these steps:

To **view** the power level:

1. Remove the battery cover from the back of the transmitter
2. Remove ONE of the batteries from the holder (be sure to note polarity so it is re-inserted properly in the following steps)
3. Using one hand, depress and hold down Button 1 on the transmitter. While holding button down, re-insert the battery into the holder.
4. With button #1 still depressed and battery in holder, keep the button pressed for 5 seconds until the LED turns **RED**.
5. Keep holding button #1 in until the LED turns **GREEN** (about 2 more seconds).
6. Keep holding button #1 until the LED starts **BLINKING GREEN** (about 2 more seconds)
7. Release button and wait while LED continues **BLINKING GREEN** for about 8 seconds, then stops, then blinks again. It will blink the number of times equal to the power level setting.

LED Flashes:	Indicates Unit is Set To:
GREEN – one time	Power Level 1 – Approx 100 Ft Range
GREEN – two times	Power Level 2 – Approx 250 Ft Range
GREEN – three times	Power Level 3 – Approx 400 Ft Range
GREEN – four times	Power Level 4 – Approx 600 Ft Range

To **select** the power level:

1. Remove the battery cover from the back of the transmitter
2. Remove ONE of the batteries from the holder (be sure to note polarity so it is re-inserted properly in the following steps)
3. Using one hand, depress and hold down Button 1 on the transmitter. While holding button down, re-insert the battery into the holder.
4. With button #1 still depressed and battery in holder, keep the button pressed for 5 seconds until the LED turns **RED**.
5. Keep holding button #1 in until the LED turns **GREEN** (about 2 more seconds).
6. Keep holding button #1 until the LED starts **BLINKING GREEN** (about 2 more seconds).
7. Release button and quickly press the number of times equal to the power level desired.
8. Once you stop pressing for three seconds, the LED will blink back **GREEN** the number of times of the power level to confirm your selection.
9. If you didn't make the proper power level selection, you must repeat the procedure beginning at Step 3.

You may repeat the above procedure anytime you wish to change the power level of the transmitter. See note* in SPECIFICATIONS.

DOCUMENT DATE: 10/7/2019 / PRODUCT REV. 12



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