AIR-EAGLE SR PLUS

36-HH-4

2.4 GHz RF Transmitter



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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 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.

SIGNAL RANGE

Max range statements are estimates based on a clear line of sight with few interferences. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting and receiving antennas, weather conditions, electronic interference, terrain, and physical obstacles, including but not limited to; walls, building structures, trees (foliage), metal objects, and landscape (hills, mountains).



WIRELESS STOP SYSTEMS WORK IN CONJUCTION WITH HARD-WIRED SYSTEMS.

Wireless Stop and E-Stop devices must work in conjunction with a hard-wired system. A wireless system should never be considered a primary life-saving device. At least one hard-wired switch must be available in the event the wireless signal is lost. Failure to comply may result in serious injury or death to personnel and damage to equipment.



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INTRODUCTION

The Air-Eagle SR PLUS TX is a handheld R.F. transmitter capable of sending up to four unique digital commands to an Air-Eagle SR Receiver located up to 600 feet away. Any number of transmitters and receivers can be combined to create a medium-range radio frequency system that operates hazardous or hard-to-reach equipment from safe, convenient locations. Eight user-programmable frequencies allow multiple systems to operate simultaneously in the same area without interference. This transmitter will automatically go into "sleep" mode when no buttons are being depressed on the unit to dramatically extend battery life.

INITIAL OPERATION SET-UP

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

CONTROLS & INDICATORS

TX LED	LED illuminates "**RED**" 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	Transmits individual button RF codes to the receiver

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 5 seconds, until the TX LED is illuminated **RED**. Then release the buttons and watch as the TX LED stays **RED** for about 8 seconds, goes out, then 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 5 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 8 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.

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.

At any time, you can check the current power level by depressing Buttons 3 & 4 simultaneously, for approximately 11 seconds, until the TX LED starts **blinking GREEN**. Then release the buttons and watch as the TX continues to blink for 10 seconds, goes out, then begins to blink again. The TX LED will blink **GREEN** one, two, three or four times corresponding the power level setting (see table below)

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 change the setting, follow these steps:

To select a power level:

1. Depress Buttons 3 & 4 simultaneously until the TX LED is blinking **GREEN** (Approximately 11 seconds)

2. Release Buttons 3 & 4, then while the TX LED is still blinking **GREEN**, depress Button 1 to select "Power Level 1" or Button 2 to select "Power Level 2" etc. If the transmit LED goes out before you have selected a power level, no settings will have changed, ***and*** the LED will blink corresponding to the power level 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 power level selection has been accepted, and then will go out. For instance, if you have selected Power Level 1, the TX LED will blink **GREEN** once to confirm. If you have selected Power Level 3, the TX LED blinks **GREE**N three times to confirm.

APPROVALS

United States (FCC)	MCQ-XBEE3
Canada (IC)	1846A-XBEE3
Europe (CE)	ETSI
Australia	RCM
Brazil	ANATEL 06329-18-01209

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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. ***For best performance use ONLY Energizer Brand Lithium Batteries	
***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 6 months	
Battery Life(Sleep Mode)	Up to 1 Year	
Transmit Frequency	2.4GHz Spread Spectrum	
RF Networks	Eight Independent Network Frequencies	
RF Output Power	User Selectable from 1mW - 60 mW	
Max Transmit Range	User-Selectable from 100 - 600 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	
Weight	Approx .22 lbs. (w/belt clip)	

DIMENSIONS

