AIR-EAGLE XLT

441P-HH-9-003

900 MHz RF Transmitter

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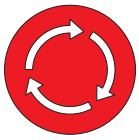
WARRANTY STATEMENT

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, ASTOP, and E-STOP SYSTEMS

Wireless E-STOP systems should never be considered a primary life-saving device. At least one hard-wired switch must be available in the event the wireless system is not operational. Failure to comply may result in serious injury or death to personnel and damage to equipment.

Wireless STOP and ASTOP transmitters are not failsafe emergency stop controls. They are NOT to be used as a life-saving device. They are designed for wireless control of equipment or vehicle remote operation. Failure to use as intended may result in serious injury or death to personnel and damage to equipment.

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INTRODUCTION

The Air-Eagle XLT TX is a handheld R.F. transmitter capable of sending up to eight unique digital commands to an Air-Eagle XLT Receiver located up to 2500 feet away. Eight user-programmable frequencies allow multiple systems to operate simultaneously in the same area without interference. This transmitter will automatically go into “sleep” mode after 20 seconds of no activity to dramatically extend battery life.

INITIAL OPERATION SET-UP

This transmitter comes ready to operate, with batteries installed, and factory programmed to Frequency #1. No setup is necessary unless you wish to change frequency or transmit mode. See FREQUENCY PROGRAMMING AND TRANSMITTING MODE SETUP.

CONTROLS & INDICATORS

TX LED	Illuminates **RED** when transmitting in standard mode or **GREEN** in repeater mode. When this LED blinks **RED** during or 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 7	Transmit channel 1 thru 7 commands to the receiver
Pushbutton P/Shift	If button is depressed for longer than 5 seconds, the transmitter will enter “programming” mode. See PROGRAMMING section.

GENERAL OPERATION

Each of the first six buttons operates a gate at a road. Buttons are labeled with the road names as follows:

Button 1 – Johnson North
Button 2 – Cleveland
Button 3 – Sherman
Button 4 – Johnson South
Button 5 – Scott
Button 6 – Monroe
Button 7 – Status

This transmitter sends 7 independent commands. Each button sends an RF Code for that channel. When the selected gate button is pressed the first time relay 1 in the corresponding receiver will turn on for one second opening the gate. When the same gate button is pressed again relay 2 in the receiver will turn on for one second, closing the gate.

The transmitter will stay awake for 20 seconds waiting for gate feedback from the corresponding receiver. When the gate opens, input 1 of the receiver will close and it will send the “Open” feedback signal back to the transmitter. The transmitter LED will flash green for 4 seconds indicating the gate is open.

When the gate closes input 2 of the receiver will close and it will send the “Closed” feedback signal back to the transmitter. The transmitter LED will flash red for 4 seconds indicating the gate is closed.

Button 7 is the “Status” button. Press this button, then the gate button to get the feedback status of the selected gate without operating it. When the status button is pressed the LED will quickly flash red and green. After the gate button is selected the LED will blink green four times if the gate is open, and red four times if the gate is closed. If the Status button is pressed a second time without selecting a gate the query will end. If no gate is selected within three seconds the Status query will also end.

Button 8 is not used.

To use as the “P” button, you must press and hold the button for approximately 5 seconds to enter programming mode. (See PROGRAMMING section for more details).

FREQUENCY PROGRAMMING

Please read through these instructions completely before beginning programming procedure!

*At any time, you can check the current frequency setting by depressing the P/Shift button, for approximately 5 seconds, until the TX LED is illuminated **RED**. Then release the P/Shift button and watch as the TX LED stays **RED** for about 10 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 8:

1. Depress the P/Shift button until the TX LED is illuminated **RED**. (Approximately 5 seconds)

2. Release the P/Shift button, 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 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.

APPROVALS

United States (FCC)	MCQ-XB900HP
Canada (IC)	1846A-XB900HP
Australia	RCM
Brazil	ANATEL 3727-12-1209

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 AA, 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	900MHz Spread Spectrum	
RF Networks	Eight Independent Network Frequencies	
RF Output Power	250 mW	
Max Transmit Range	Up to 2500 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 .23 lbs. (w/belt clip)	

DIMENSIONS