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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® SR PLUS 2.4 GHz RF Transmitter MODEL 36U-HH-9

DESCRIPTION

The AIR-EAGLE SR PLUS TX is a handheld R.F. transmitter capable of sending up to sixteen 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.

APPROVALS

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

INITIAL 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 on page 2.

GENERAL OPERATION

This transmitter sends up to 16 independent commands. Each button sends an RF Code for that channel. Button 1 transmits channel 1 commands, button 2 transmits channel 2 commands etc. To send commands 9 thru 16, the P/Shift button must be used. As noted under CONTROLS & INDICATORS, the P/Shift button serves two purposes. As the "P" button, it allows you to program the transmitter to operate on a different frequency. As the "Shift" button, it allows you to send commands 9 thru 16 to the receiver.

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).

To use as the "Shift" button, press the P/Shift button momentarily. The TX LED will begin to flash rapidly indicating you're in the Shift mode. While in shift mode pressing buttons 1 thru 8 transmit the higher numbered code for that button. The transmitter will stay in the Shift mode as long as buttons are being depressed within 10 seconds of one another. During this time, the TX LED gives visual confirmation that you're in Shift mode by continuously flashing GREEN/RED rapidly. After 10 seconds has elapsed with no buttons depressed, the transmitter will revert back to standard mode and the TX LED will extinguish. If, while in Shift mode, you wish to transmit a button 1 thru 8 command and don't want to wait for the Shift mode to time out, you can simply press the P/Shift button momentarily to revert back to the standard mode.



CONTROLS & INDICATORS

TX LED	LED illuminates "RED" continuously while button is depressed and unit is transmitting. When this LED blinks during a transmission, the battery needs to be recharged.
Keypad Pushbuttons 1 thru 8	Transmit CH.1 thru 8 individual button RF codes to the receiver
Pushbutton P/Shift	The P/Shift button performs three functions: 1. If button is depressed momentarily and another button is then pressed within 10 seconds, the higher code for that button is transmitted. This allows for transmission of pushbutton codes 9 thru 16. 2. If button is depressed for longer than 5 seconds, the transmitter will enter "programming" mode. See PROGRAMMING section. 3. See "Battery Charge Status" for using P/shift to see battery level.
Keypad Pushbuttons 9 thru 16	Transmit CH. 9 thru 16 individual button RF codes to the receiver

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BATTERY CHARGE STATUS

Hold the P/Shift button then tap button 1 and release both buttons to see the current charge level. Note that you should give about 1 second delay before pressing button 1.

High	TX LED blinks GREEN 4 times
Med-High	TX LED blinks GREEN 3 times
Med-Low	TX LED blinks GREEN 2 times
Low	TX LED blinks RED 1 time
Needs charged	TX LED blinks RED while transmitting and after any button released

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:

- Depress the P/Shift button until the TX LED is illuminated **RED**. (Approximately 5 seconds)
- 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.
- 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. See note* in SPECIFICATIONS.

POWER LEVEL PROGRAMMING

At any time, you can check the current power level by depressing the P/Shift Button, for approximately 8 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 to 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:

- Depress the P/Shift Button until the TX LED is **BLINKING GREEN** (Approximately 8 seconds)
- Release the P/Shift Button, 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.
- 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 **GREEN** three times to confirm.

SPECIFICATIONS

Keypad	Durable Sealed Membrane Keypad – Eliminates Dust, Dirt and Moisture Failures
Enclosure	ASA/Polycarb Blend – IP54 – <i>Not Water Proof!</i>
Power Requirements	Charging cable (included) Micro USB connector to USB A type – 5 volts 1 amp
Battery Type	Internal Sealed Lithium Rechargeable. Capacity 3.7V 2000mAh
Battery Life (Active Usage)	Up to 2 months
Battery Life (Sleep Mode)	Up to 6 months
Battery Recharge Time	Approximately 3 to 4 Hours
Transmit Frequency	2.4GHz Spread Spectrum
Transmit Channels	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	-40° F to +185° F

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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 of 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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