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# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® SR PLUS 2.4 GHz RF Repeater MODEL 36-4500

### DESCRIPTION

The AIR-EAGLE SR PLUS RF REPEATER IS designed to retransmit an RF signal from any Air-Eagle SR or SR PLUS Transmitter. When placed in an area where the signal is weak, this unit will then re-transmit at full strength facilitating greater distances and allowing the RF signal to reach around corners, through tunnels, over hills and through valleys.

### APPROVALS

|                     |               |
|---------------------|---------------|
| United States (FCC) | OUR-XBEEPRO   |
| Canada (IC)         | 4214A-XBEEPRO |
| Europe (CE)         | ETSI          |

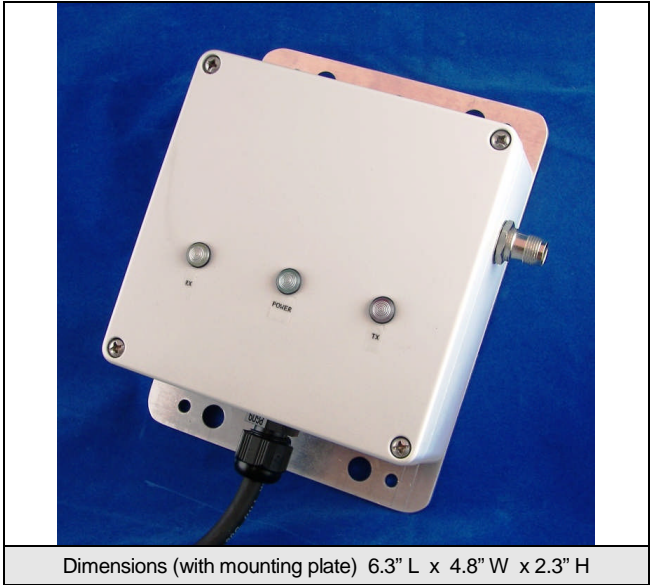
### INSTALLATION

DISCONNECT AC Power from all equipment before installation.

1. Mount the AIR-EAGLE SR PLUS REPEATER in a convenient location.
2. Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
3. Connect AC power and control to the proper terminals in your control circuit.

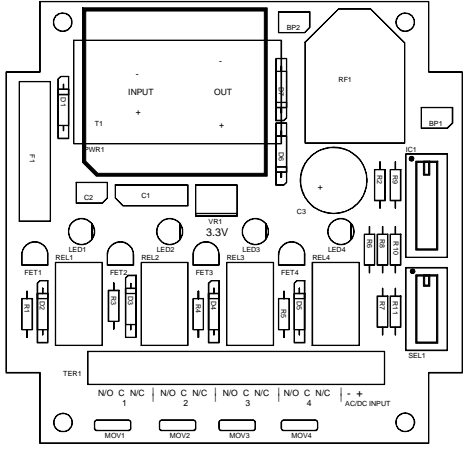
### TERMINAL STRIP WIRING

|   |          |    |          |    |                     |
|---|----------|----|----------|----|---------------------|
| 1 | Not Used | 7  | Not Used | 13 | 120 VAC - (Neutral) |
| 2 | Not Used | 8  | Not Used | 14 | 120 VAC - (Hot)     |
| 3 | Not Used | 9  | Not Used |    |                     |
| 4 | Not Used | 10 | Not Used |    |                     |
| 5 | Not Used | 11 | Not Used |    |                     |
| 6 | Not Used | 12 | Not Used |    |                     |



Dimensions (with mounting plate) 6.3" L x 4.8" W x 2.3" H

### CONTROLS AND INDICATORS



|           |  |
|-----------|--|
| RX LED    | Yellow LED illuminates as remote signals are being received by the repeater    |
| POWER LED | Green LED is illuminated while power is applied to the repeater                |
| TX LED    | Red LED illuminates as remote signals are being re-transmitted by the repeater |
| RF1       | RF module that receives data from the remote transmitter                       |
| SEL1 – 4  | Not used on this model   |
| SEL5 – 6  | Used to set frequency  |

# AIR-EAGLE® SR PLUS

## 2.4 GHz RF Repeater

### MODEL 36-4500

### FREQUENCY SET-UP

The unit is shipped from the factory with SEL1 switches in the open positions (defaulting to Frequency #1). If you wish to change the default frequency, follow the instructions on the table below.

| <b>REMOVE POWER FROM REPEATER BEFORE CHANGING ANY OF THE FOLLOWING DIP SWITCH SETTINGS!</b> |                          |                          |
|---|--------------------------|--------------------------|
| FREQUENCY SET-UP  |                          |                          |
| Frequency Selection   | SEL1 – SWITCH NUMBER “5” | SEL1 – SWITCH NUMBER “6” |
| 1   | OPEN                     | OPEN                     |
| 2   | CLOSED                   | OPEN                     |
| 3   | OPEN                     | CLOSED                   |
| 4   | CLOSED                   | CLOSED                   |
| OTHER   |                          |                          |
| SEL1 SWITCH NUMBER “7”  | Reserved for future use  |                          |

### SPECIFICATIONS

|                       |                                   |
|-----------------------|-----------------------------------|
| AC Input              | 120 VAC, 16 W, 50/60 Hz           |
| Fuse Protected        | 1 amp                             |
| Repeater Frequency    | 2.4 GHz Spread Spectrum           |
| RF Output Power       | 60 mW                             |
| Repeater Range        | Approximately 1200 feet           |
| Repeater Channels     | Four independent networks         |
| Operating Temperature | -40° F to +185° F                 |
| Enclosure             | ABS Plastic / NEMA 4, 4X, 12 + 13 |

### REPLACEMENT PARTS & ACCESSORIES

|   |                                |
|---|--------------------------------|
| PC Board (Main)   | 36-4502                        |
| Standard Antenna (Included):  |                                |
| 2.4GHz TNC Portable Antenna (For distances up to 1200 feet*)  | 49-1201                        |
| Optional Antennas and Accessories –<br>Used to increase range in both non line of sight and line of sight applications. - Contact BWI Eagle for recommendations |                                |
| 2.4GHz Thru-Hole Mount Mobile Antenna   | 49-2201                        |
| 2.4GHz Magnetic Mount Mobile Antenna  | 49-2202                        |
| 2.4GHz Omni Directional Antenna   | 49-3201                        |
| 2.4GHz 13dB Yagi Antenna  | 49-3202                        |
| Flex Coax Cable w/Connectors – Connects external antenna(s) to base unit(s).  | 49-4000-XX<br>(XX = # of Feet) |
| Inline Lightening Arrestor  | 49-5002                        |
| * = Line of Sight   |                                |

### 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 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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