RD1462 SPECIFICATIONS (94-09-08)

MADE IN USA

2 YEAR WARRANTY

## ELECTRICAL

143.5-148.5 Frequency range, MHz 6 min. Gain, dBd 10 min. Front to back ratio, dB YSWR (50 Ohms) 1.2:1 typ. 1.5:1 bandwidth, MHz 5 min., 6.5 typ. 3dB beamwidth, E/H plane, deg. 34/169 58-1/2" Stacking distance, E plane 300 \* Max. power, Watts UHF female Termination connector Vertical Polarization

\* Limited by feedline. Higher power rating available on request.

### MECHANICAL

2 Number of dipoles 9 (2.7) min. Mast required, ft. (M) .750" by .750" square tube 6061-T6 aluminum Boom material .188" diameter 2011-T3 aluminum rod Element material 1.250-1.625 (3.2-4.1) Mast diameter, in. (cm) ามากรับผู้สุดสุด เมื่อวิทาร ค่า Rear 157 Mounting .264 (.0024) Wind surface area, ft2 (m2) 100 (161) Wind survival, mph (kph) 2.5 (1.14) Weight, pounds (kG)

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MODEL RD1462 ASSEMBLY INSTRUCTIONS

WARNING: AN ANTENNA IS AN ELECTRICAL CONDUCTOR. DO NOT ALLOW AN ANTENNA OR ITS FEEDLINES TO COME IN CONTACT WITH ANY HIGH VOLTAGE LINES OR POWER CABLES. FURTHERMORE, DO NOT PLACE AN ANTENNA WHERE IT COULD ACCIDENTALLY FALL ACROSS HIGH VOLTAGE WIRES DURING OF AFTER INSTALLATION.

Model RD1462 from RADIOWARE is a State-of-the-Art wide-bandwidth 2-Meter dipole array with a clean radiation pattern and low angle of radiation. The "NoTune" feed system with a built in current balun insures that radiation from the feedline is very low.

INSTALLATION: For proper operation, it is very important that this antenna be placed as far as possible from other antennas, power lines, and guy wires. MAKE SURE THAT NO PERSON OR PET CAN COME IN CONTACT WITH THE ANTENNA WHEN IT IS BEING USED FOR TRANSMITTING PURPOSES SINCE HIGH RF (RADIO FREQUENCY) VOLTAGES ARE PRESENT. FURTHERMORE, DO NOT STAND NEAR THE ANTENNA WHEN TRANSMITTING SINCE THE AFFECTS OF EXPOSURE TO RF RADIATION ARE NOT FULLY UNDERSTOOD. DON'T FORGET TO PLACE THE DANGER LABEL ON THE BOOMS.

ASSEMBLY: Attach the feed blocks to the booms with the 8-32 1-1/8" screws, lock washers and nuts. Make sure that the feedlines face the rear of the booms. Secure the feedlines to the booms with a cable tie on the connector side of the boom (just behind the balun). Place a vinyl cap on each end of the boom. PLACE THE DANGER LABEL ON THE BOOMS AS SHOWN ON FIGURE 1.

Attach dipole #1 assembly (the upper one) to a mast or leg of a tower with a V holt, V block, 1/4" flat washers, lock washers and nuts as shown on figure 1. Repeat this procedure for dipole 2 noting that the center-to-center spacing of the dipoles is 58-1/2 +/-2 inches. Note that all the feed blocks MUST be facing you for correct phasing.

Join the connectors from dipole #1 and #2 into opposing ends of a UHF Tee connector. Seal the connectors to prevent moisture from entering. Pull the vinyl connector boots over all the connectors. Dress all the cables and secure them to the tower or mast with the remaining cable ties.

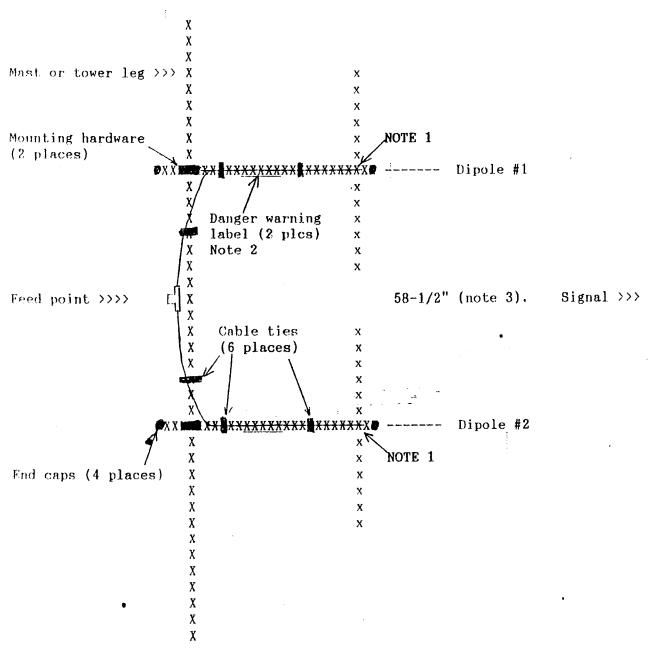
FEEDLINE ATTACHMENT: Connect your main feedline to the feed point. Seal the connectors to prevent moisture from entering. For maximum antenna efficiency, use the shortest possible length of low loss feed line.

TUNING: Your ANTENNACO MODEL D-146-2 2-Meter dipole array with "AntennaFeed" is designed for a 50 Ohm match and does not require tuning. If you want to check the antenna, place a good VHF type VSWR meter in the feedline below the antenna installation and note the VSWR. Remember that a VSWR of 1.5:1 or less is a commercial standard and decreasing the VSWR further will have very little measurable increase in antenna efficiency. Now sit back and enjoy the performance of your new antenna!

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Figure 1: Overall assembly of the Model RD1462 2-Meter dipole array.



### Notes:

1. Both dipoles must be on the same side of the boom to prevent phasing errors.

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- 2. Danger warning label must be attached to each dipole.
- 3. Spacing is  $\pm/-2$ ".