

Directive Systems & Engineering

2702 Rodgers Terrace Haymarket, VA 20169-1628

> www.directivesystems.com 703-754-3876

9cm Loop Yagi (Rear Mount), Model DSE945LYRM

SPECIFICATIONS

3.40 to 3.48 GHz 20 dBi Frequency range: Gain:

Number of elements: 45

Boom length: 16º 60 inches (E plane): Boom diameter: 0.5 inches F/B ratio: >20 dB

Mast diameter: 1 1/2 inches max Maximum Power: 100 W average Weight: (assembled) 9 inches' vertical 1.5 pounds Stacking distance: Connector:

9.8 inches' horizontal Type-N female

3 dB Beamwidth

Note: All hardware is Stainless Steel unless otherwise noted.

BEFORE INSTALLING YOUR NEW ANTENNA, PLEASE BE SURE TO READ THE ENCLOSED WARNING PAMPHLET.

ASSEMBLY INSTRUCTIONS

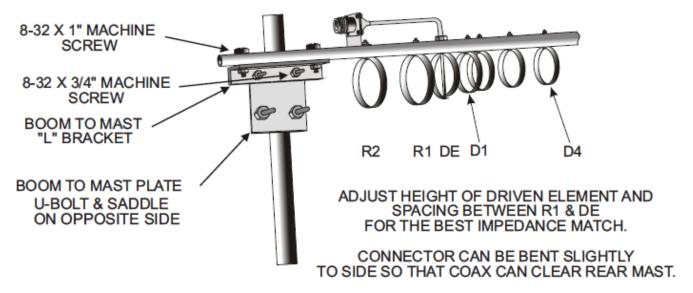
- 1) Unpack the antenna and locate the hardware package. Antennas are shipped in two sections. Assemble the boom by removing the last three directors from the rear (longer) boom piece. These loops are D22, 23 &24, and are of similar size. Insert front boom piece into rear boom piece so that the orientation lines are aligned. Now insert D22 thru 24 into their respective mounting holes and tighten.
- Straighten any misaligned elements and re-tighten if necessary. But do not touch R1, 2) DE or D1, as these have been factory set for minimum SWR.
- Attach the boom to mast plate to the boom with the hardware provided. Install the U-bolts so that the mast comes up directly under the boom.
- Attach the feed line, and tape it to the bottom of the boom. The connector should be sealed with electronic grade RTV or equivalent.
- The antenna SWR has been adjusted at the factory for less than 1.5:1 VSWR. Additional tweaking can be accomplished by changing the shape of the driven element slightly and by adjusting the distance between the driven element and R1 and D1. R1 is the reflector closest to the driven element. NOTE: Do not attempt this adjustment unless the proper equipment and qualified personnel are available.

6) If antennas are to be stacked, see "Instructions for Stacking Loop Yagis".

Observe the drawing below to assemble the antenna to your mast. Install coax and weatherproof your connection with RTV or equivalent. Tape coax to mast.

DSE945LY BOOM TO MAST MOUNT AND CONNECTOR DETAIL

FOR BEST RESULTS, ORIENT ANTENNA AS SHOWN WITH ELEMENTS LOCATED BELOW THE BOOM TO PREVENT DAMAGE FROM OVERWEIGHT BIRDS!



DO NOT, UNDER ANY CIRCUMSTANCES, APPLY ANY TYPE OF SEALANT OR COATING TO THE DRIVEN ELEMENT, T-ARMS OR CONNECTOR ASSEMBLY, OTHER THAN KRYLON® CLEAR COAT. ANY OTHER COATING WILL ADVERSELY AFFECT THE SWR AND VOID YOUR WARRANTY.

Directive Systems Warranty Policy

All Directive Systems antennas are built with the finest materials available. We take great pride in building a quality product that will give years of good service and performance. If there is a defect in materials or workmanship within 90 days of purchase, Directive Systems will repair or replace the defective part, free of charge, to the original purchaser. **DO NOT RETURN ANYTHING WITHOUT PRIOR AUTHORIZATION FROM DIRECTIVE SYSTEMS**. Please contact us either by phone or email describing the problem and we will work to resolve it.

If, after examining a new antenna you received, you are not satisfied, contact us immediately for return authorization and refund. ANY ANTENNA THAT HAS BEEN MODIFIED WILL BE SUBJECT TO A RESTOCKING CHARGE. IF AN ANTENNA IS SO MODIFIED AS TO MAKE IT UNUSABLE, DIRECTIVE SYSTEMS RESERVES THE RIGHT TO REFUSE TO ACCEPT THE ANTENNA FOR RETURN.