

Directive Systems & Engineering

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9cm Loop Yagi, Model DSE9112LY (w/sub-boom)

SPECIFICATIONS

~25.2dBi Frequency range: 3.40 to 3.50 GHz Gain:

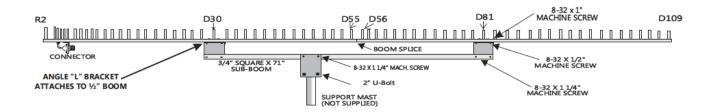
Number of elements: 3 dB Beamwidth 112

Boom length: 144 inches (E plane): ≅8.7° Boom diameter: 0.5 inch (H plane): ≅9.0° Mast diameter: 2 inches max F/B ratio: >25 dB

300 W average Weight: (assembled) 4.62 pounds Maximum Power: Connector: Type-N female Stacking distance: 21 inches' vertical Wind area: 1.0 sq. ft.

22 inches' horizontal

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

- Unpack the antenna and locate the hardware package. Antennas are shipped in two sections. In addition, a "sub-boom" is supplied (see drawing above.) The boom is broken between directors 55&56. Remove D56, D57 and D58 from the front boom section and slide the two boom pieces together. Use the alignment marks on the boom to correctly connect the boom pieces. Align the elements. Replace D56,57& D58 Note that D56-58 are all similar in size. Tighten the elements on the boom.
- 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.

- 3) Attach the 2.4" angle brackets and sub boom plates (2) with 8-32 hardware. Use 1" screws to attach the angle brackets to the 1/2" boom and 1/2"" screws for the sub-boom plates to the angle brackets. The mounting centers are D-30 & 81. Attach the 3/4" square sub-boom to the two 3 X 4" brackets using 8-32 x 1 1/4" hardware. Align the center mounting holes on the sub boom toward the rear of the antenna so that the holes are at the antenna balance point. Install the 3 1/2 x 4" bracket and U bolt at the balance point of the antenna. Use 8-32 x 1 1/4" hardware. The antenna will appear slightly front heavy with no coax attached to the feed.
- 4) Attach the feed line and tape it to the sub-boom. The connector should be sealed with silicone RTV or equivalent.
- 5) 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 andR1 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".

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.