

Directive Systems & Engineering

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12cm Loop Yagi, Model DSE1245LY

SPECIFICATIONS

Frequency Range:	2.35 to 2.45 GHz
Number of elements:	45
Boom Length:	81 inches
Boom diameter:	0.5 inch
Mast diameter:	1 ½ inch max.
Weight:	3 pounds
Connector:	Type N female
Gain:	≅20 dBi
3 dB Beamwidth (E Plane):	≅16°
F/B ratio:	≥20 dB
Maximum Power:	400 W. average
Stacking distance:	13 inches' vertical 15 inches' horizontal

Note: All hardware is Stainless Steel unless otherwise noted.

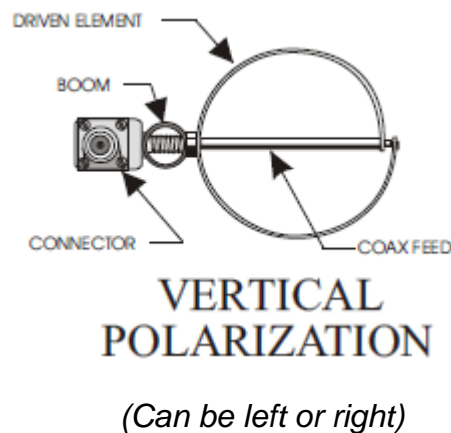
Anti-Seize Compound - Apply a small amount of the supplied Anti-Seize Compound to the aluminum joints and to the threads of the U-Bolts to prevent galling.

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.
- 2) Antenna may be shipped in two sections; if so, the splice will be between directors 25 & 26. Remove D24 and D25 from the rear boom section and slide the two boom pieces together. Align the reference marks on the boom, replace D24 & D25 and retighten.
- 3) Straighten any misaligned elements and tighten hardware if necessary. **But do not touch R1, DE or D1, as these have been factory set for minimum SWR.**

- 4) Install the U-bolt into the boom to mast bracket so that the mast comes up directly under the boom. Note that the bracket can be installed for either vertical or horizontal polarization. (See drawings below)



- 5) Attach the feed line, and tape it to the mast. The connector should be sealed with electronic grade RTV or equivalent.
- 6) The antenna SWR has been adjusted at the factory for less than 1.5:1. Additional tweaking can be accomplished by adjusting the distance between the driven element and R1 and D1, or by adjusting the shape of the driven element. **NOTE: Do not attempt this adjustment unless the proper equipment and qualified personnel are available.**
- 7) 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.**