



Directive Systems & Engineering

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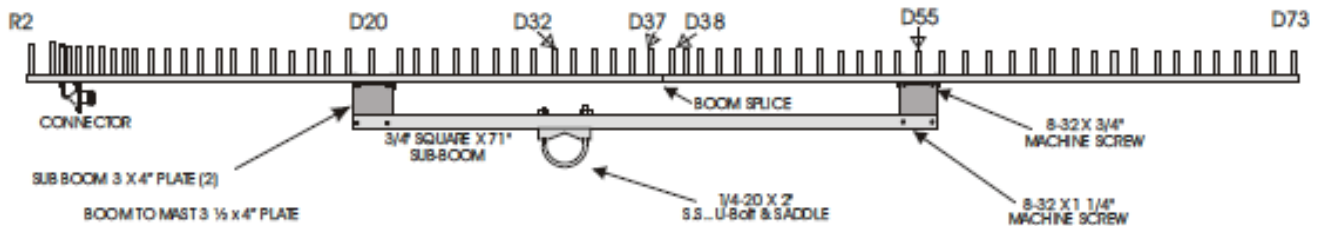
www.directivesystems.com

703-754-3876

2401 MHz AO-40 Loop Yagi, Model DSE1276LY

SPECIFICATIONS

Frequency range:	2.37 to 2.47 GHz	Gain:	≈23.4 dBi
Number of elements:	76	3 dB Beamwidth	
Boom length:	144 inches	(E plane):	≈10.7°
Boom diameter:	0.5" & 0.75" sub-boom	F/B ratio:	≥25 dB
Mast diameter:	2 in. max	Maximum Power:	400 W average
Weight: (assembled)	5.2 pounds assembled	Stacking distance:	24.5 inches vertical
Connector:	Type-N female		25.25 inches horiz
Wind area:	0.95 sq. ft.		



ASSEMBLY INSTRUCTIONS

- 1) Unpack the antenna and locate the hardware package. Antennas are shipped in two sections. In addition, a 71" long "sub-boom" is supplied. (See drawing above.) The boom is broken between directors 37 & 38. Remove D38 and D39 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 D38 & D39 and retighten.
- 2) Attach the two 3 x 4" sub boom plates to the 1/2" boom and the attached angle brackets with the 8-32 x 3/4" hardware provided. Install the sub boom to the two plates with the U-bolt holes offset towards the rear (for mechanical balance). Use the 8-32 x 1 1/4" machine screws to attach the sub boom to the two plates. Install the 2" U-bolt in the holes provided in the sub-boom.
- 3) Attach the feedline and tape it to the bottom of the boom & sub-boom. The connector should be sealed with silicone RTV or equivalent. A small downconverter may be attached to the rear of the sub boom to minimize feedline losses. 32" of low loss coax will be adequate. Route the IF and power cables along the sub boom and the cross boom of your installation.
- 4) Straighten any misaligned elements and re-tighten if necessary.

- 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 and R1 and D1. R1 is the reflector closest to the driven element. If you do not have a microwave return Loss Bridge or coupler, leave it alone! The antenna will typically be better than -20 dB return loss right out of the box!
- 6) If antennas are to be stacked, see "Instructions for Stacking Loop Yagis".

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, free of charge, the defective part. **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.**