



Directive Systems & Engineering

2702 Rodgers Terrace
Haymarket, VA 20169-1628

www.directivesystems.com

703-754-3876

2401 MHz 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 inch
Weight:	3 pounds
Connector:	Type N female
Gain:	$\cong 20$ dBi
3 dB Beamwidth (E Plane):	$\cong 16^\circ$
F/B ratio:	≥ 20 dB
Maximum Power:	400 W. average
Stacking distance:	13 inches vertical 15 inches horizontal

ASSEMBLY INSTRUCTIONS

- 1) Unpack the antenna and locate the hardware package. The bag with the short #8 screws is for the 1245LY. Some antennas are shipped in two sections. Each section has a locating line to indicate where the two boom sections go back together. Remove the two loops closest to the line on the small boom section. Slide the two boom pieces together to the alignment marks on the boom. Replace the two loops and tightened.
- 2) 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.
- 3) Attach the feed line, and tape it to the bottom of the boom. . The connector should be sealed with silicone RTV or equivalent.
- 4) Straighten any misaligned elements and re-tighten if necessary.
- 5) Due to the wide operating range, the antenna SWR may need adjustment although untouched will be less than 1.5:1. 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.
- 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.**