Laird TECHNOLOGIES®

Innovative **Technology** for a **Connected** World

Yagi NLOS Antenna

YA9

860 TO 960 MHz NLOS YAGI ANTENNA

The NLOS series antenna system offered by Laird Technologies is constructed of stainless steel for outstanding service life. Individual elements are welded to the main beam for permanent attachment. Welded elements give more consistent signal performance because they ensure high conductivity across the antenna surface. These antennas have high gain and good front to back performance to minimize external interference. They can be mounted in vertical or horizontal polarization. They come standard with an 18 inch pigtail cable terminated with an N female connector. Other connector types are available upon request.

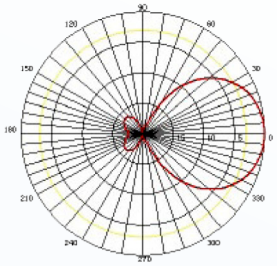
FEATURES ✓RoHS

- High-gain directional antenna
- Available in 9, 11, and 13 dBi gain models
- Stainless steel construction, low wind loading
- Simple installation - vertical or horizontal polarization
- 18 in pigtail with type N female connector standard
- DC ground for lightning protection

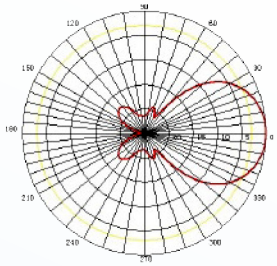
MARKETS

- 900 MHz ISM band applications
- Non line-of-sight applications
- WISP CPE equipment
- Cellular applications
- WiMAX

ANTENNA PATTERNS



YA9-9 E-Plane



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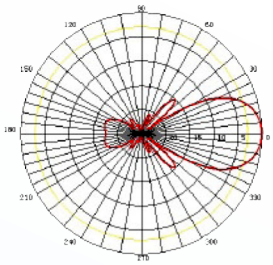
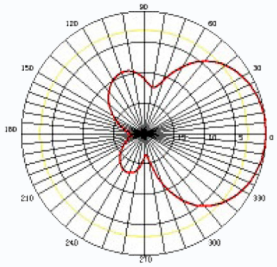
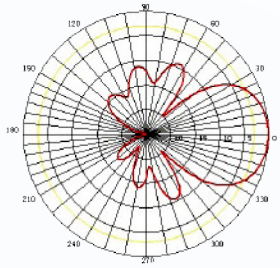


YA9-13 E-Plane



YA9-9 H-Plane



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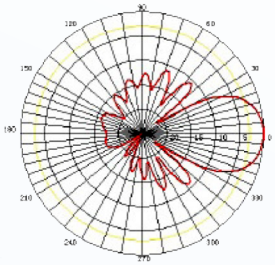

YA9-13 H-Plane

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Yagi NLOS Antenna
YA9

SPECIFICATIONS

PARAMETER	YA9-9	YA9-11	YA9-13
Frequency range	860 - 960 MHz	860 - 960 MHz	860 - 960 MHz
VSWR	1.5:1	1.5:1	1.5:1
Impedance	50 ohm	50 ohm	50 ohm
Input power	100 watts	100 watts	100 watts
Pole size	1 to 2 in (25 to 51 mm)	1 to 2 in (25 to 51 mm)	1 to 2 in (25 to 51 mm)
Operating temperature	-45° to +70°C	-45° to +70°C	-45° to +70°C
Rated wind velocity	125 mph (56 m/sec)	125 mph (56 m/sec)	125 mph (56 m/sec)
Gain	9 dB	11 dB	13 dB
Number of elements	5	8	15
Beamwidth	53°	50°	30°
Front to back	> 14 dB	> 15 dB	> 18 dB
Weight	1.9 lbs (0.7 kg)	2.4 lbs (0.9 kg)	3.3 lbs (1.25 kg)
Length dimension element width ~ 6" (152 mm)	19.7 in (0.5 m)	35.4 in (0.9 m)	57 in (1.45 m)

WIND LOADING (LBS.)

MODEL	SQ. IN	100 MPH	125 MPH	100 MPH WITH ½ INCH RADIAL ICE
YA9-9	19	4.75 lbs	7.42 lbs	8 lbs
YA9-11	29	7.25 lbs	11.3 lbs	12 lbs
YA9-13	45	11.3 lbs	17.6 lbs	21 lbs

SYSTEM ORDERING

YA9-9 9 dB NLOS series 900 MHz Yagi antenna with N female connector

YA9-11 11 dB NLOS series 900 MHz Yagi antenna with N female connector

YA9-13 13 dB NLOS series 900 MHz Yagi antenna with N female connector

NOTES

- All shipments F.O.B. Schaumburg, IL 60173

ANT-DS-YA9 0611

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