



Smart Technology. Delivered.

# DIRECTIONAL YAGI ANTENNAS

## Y(B)8966

### GOLD SERIES DIRECTIONAL YAGI ANTENNAS PROVIDE INDUSTRY-LEADING DESIGN FEATURES WITH LONG TERM OPTIMAL PERFORMANCE

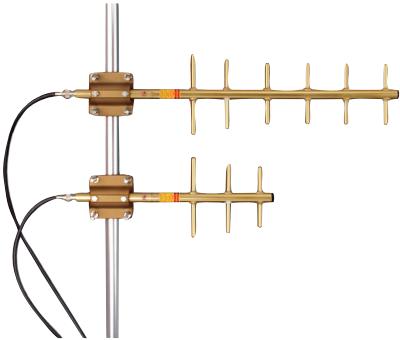
Laird premium series directional Yagi antennas are fully gold anodized for corrosion resistance. All UHF and above frequency antennas feature internal matching to assure broad bandwidth and resistance to severe weather conditions. There is no gamma match to ice up, corrode or detune. Our engineering staff has optimized the product family for forward gain by computer analysis and then field-tested each for conformance.

#### FEATURES AND BENEFITS:

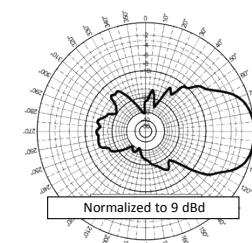
- All UHF and higher frequency antennas feature 360° welds around each element and an end-of-boom N connector feed with an internal transmission line feeding the driven element.
- Every Yagi is tuned on a network analyzer for best power match and lowest VSWR.
- All Yagi antennas ship complete with a high quality cast aluminum mounting kit that includes stainless steel hardware and allows vertical or horizontal orientation during installation (VHF models require light assembly).

#### APPLICATIONS:

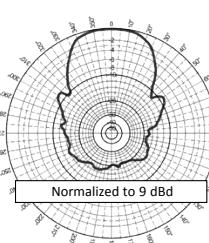
- Point-to-point and multi-point / omnidirectional outdoor antennas applications used by private organizations and government agencies around the globe.
- Typical applications include transportation such as railroad switching, remote locations reporting examples that include oil fields, weather conditions and, meter data transmissions for utilities.



Electrical		Mechanical	
Frequency Range	896 – 970 MHz	Material	Aluminum
Frequency Bandwidth	74 MHz	Length	27.688"
VSWR	< 2:1	Height	6.75"
Return Loss	-10 dB max	Boom Diameter	.875"
Nominal Gain	9 dBD	Weight	3.9 lbs
Front to Back Ratio	20 dBD	Rated Wind Velocity	150 mph (241 kph)
Maximum Power	300 W	Rated Wind Velocity (with 0.5" radial ice)	80 mph (130 kph)
Nominal Impedance	50 Ω	Equivalent Flat Area	0.2492 sq. ft.
Polarization	Vertical or Horizontal	Cable	None
Pattern	Directional	Termination	N-Female connector
Horizontal Beamwidth (For Horizontal Polarization)	56°	Color	Gold or Black Anodized
Vertical Beamwidth (For Vertical Polarization)	52°	Lightning Protection	Lightning Arrestor LABH350NN (Sold Separately)
Tuning	Fixed	Mounting Included	Heavy duty cast aluminum bracket accommodates up to 2-1/2" mast
Transmitting/Receiving	Both		



Vertical-to-Vertical  
Polarization  
Azimuthal Pattern  
(Y, Z, or E-plane)



Horizontal-to-Horizontal  
Polarization  
Azimuthal Pattern  
(Y, Z, or H-plane)

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