



2.4 m | 8 ft Standard Parabolic, Low VSWR Unshielded Antenna, dual-polarized, 10.700–11.700 GHz, CPR90G, gray antenna, with flash, standard pack—one-piece reflector

OBSOLETE

This product was discontinued on: February 1, 2019

Replaced By

HX8-11W-6GF

2.4m | 8ft ValuLine® High Performance, High XPD Antenna, dual-polarized, 10.000 – 11.700 GHz, grey, CPR090G flange

Product Classification

Product Type	Microwave antenna
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General Specifications

Antenna Type	PXL - Standard Parabolic, Low VSWR Unshielded Antenna, dual-polarized
Diameter, nominal	2.4 m 8 ft
Packing	Standard pack
Reflector Construction	One-piece reflector
Antenna Input	CPR90G
Antenna Color	Gray
Antenna Type	PXL - Standard Parabolic, Low VSWR Unshielded Antenna, dual-polarized
Diameter, nominal	2.4 m 8 ft
Flash Included	Yes
Polarization	Dual

Electrical Specifications

Operating Frequency Band	10.700 – 11.700 GHz
Beamwidth, Horizontal	0.8 °
Beamwidth, Vertical	0.8 °
Cross Polarization Discrimination (XPD)	30 dB
Electrical Compliance	US FCC Part 101B
Front-to-Back Ratio	50 dB
Gain, Low Band	46.0 dBi

Gain, Mid Band	46.4 dBi
Gain, Top Band	46.8 dBi
Operating Frequency Band	10.700 – 11.700 GHz
Radiation Pattern Envelope Reference (RPE)	3185C
Return Loss	30.7 dB
VSWR	1.06

Mechanical Specifications

Fine Azimuth Adjustment	±5°
Fine Elevation Adjustment	±5°
Mounting Pipe Diameter	115 mm 4.5 in
Net Weight	114 kg 251 lb
Side Struts, Included	0
Side Struts, Optional	1 inboard 1 outboard
Wind Velocity Operational	110 km/h 68 mph
Wind Velocity Survival Rating	200 km/h 125 mph

Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max	-125 °
Axial Force (FA)	15372 N 3456 lbf
Side Force (FS)	4196 N 943 lbf
Twisting Moment (MT)	-5349 N·m -3945 ft lb
Weight with 1/2 in (12 mm) Radial Ice	243 kg 536 lb
Zcg with 1/2 in (12 mm) Radial Ice	427 mm 17 in
Zcg without Ice	343 mm 14 in

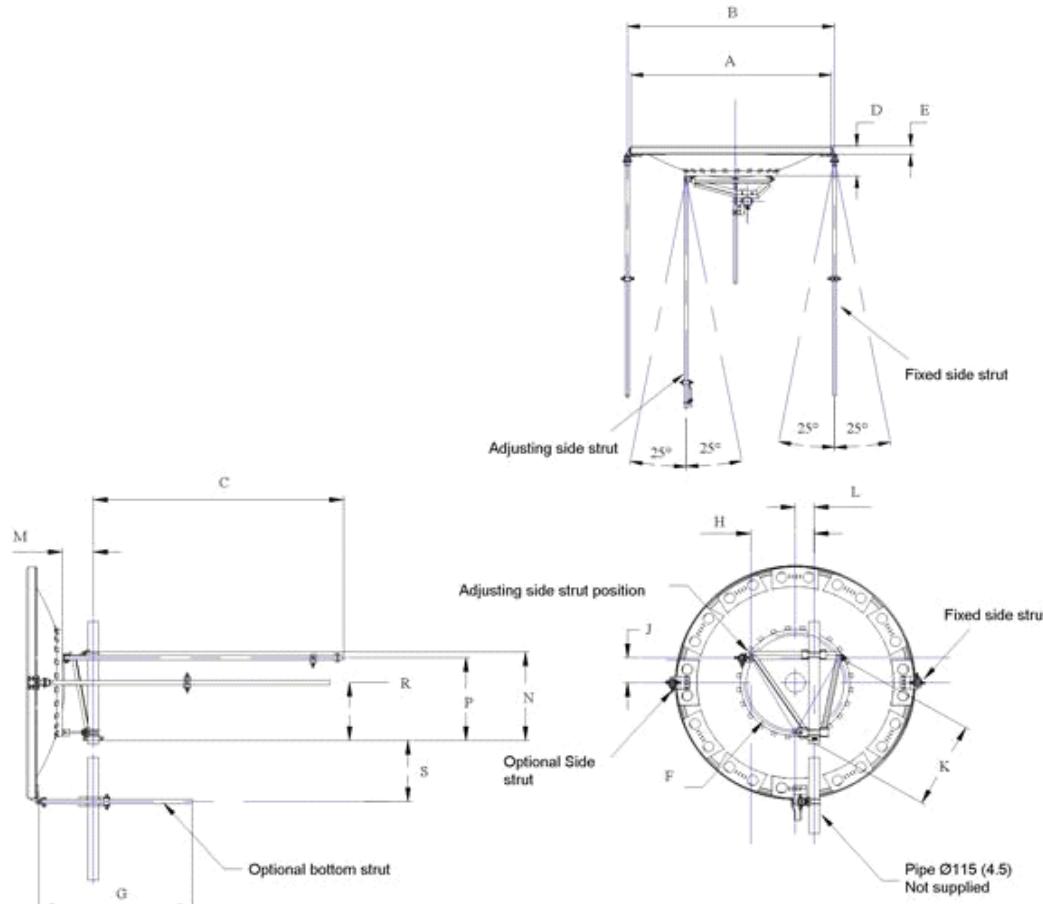
Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

Gross Weight, Packed Antenna	338.0 kg 745.2 lb
Height	2520.0 mm 99.2 in
Length	2710.0 mm 106.7 in
Volume	8.2 m ³
Width	1200.0 mm 47.2 in

Antenna Dimensions And Mounting Information



ANTENNA DIMENSIONS			
All dimensions in mm (inches)			
A	2555 (100.5)	J	275 (10.75)
B	2705 (106.5)	K	950 (37.5)
C	3050 (120)	L	200 (8)
D	395 (15.5)	M	330 (13)
E	125 (5.0)	N	950 (37.5)
F	1100 (43.25)	P	895 (35.25)
G	1525 (60)	R	625 (24.5)
H	680 (26.75)	S	695 (27.25)

Regulatory Compliance/Certifications

Agency ISO 9001:2015 **Classification** Designed, manufactured and/or distributed under this quality management system



Included Products

PXL8-107 (Product Component—not orderable) — 2.4 m | 8 ft Standard Parabolic, Low VSWR Unshielded Antenna, dual-polarized, 10.700–11.700 GHz

* Footnotes

Axial Force (FA)

Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Cross Polarization Discrimination (XPD)

The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam.

Front-to-Back Ratio

Denotes highest radiation relative to the main beam, at $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise.

Gain, Mid Band

For a given frequency band, gain is primarily a function of antenna size. The gain of Andrew antennas is determined by either gain by comparison or by computer integration of the measured antenna patterns.

Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.

Packing

Andrew standard packing is suitable for export. Antennas are shipped as standard in totally recyclable cardboard or wire-bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options.

Radiation Pattern Envelope Reference (RPE)

Radiation patterns define an antenna's ability to discriminate against unwanted signals. Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an angular accuracy of $\pm 1^\circ$ throughout

Return Loss

The figure that indicates the proportion of radio waves incident upon the antenna that are rejected as a ratio of those that are accepted.

Side Force (FS)

Maximum side force exerted on the mounting pipe as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Twisting Moment (MT)

Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

VSWR

Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the operating band.

Wind Velocity Operational

The wind speed where the antenna deflection is equal to or less than 0.1 degrees. In the case of ValuLine antennas, it is defined as a maximum deflection of $0.3 \times$ the 3 dB beam width of the antenna.

Wind Velocity Survival Rating

The maximum wind speed the antenna, including mounts and radomes, where

applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of radial ice.