



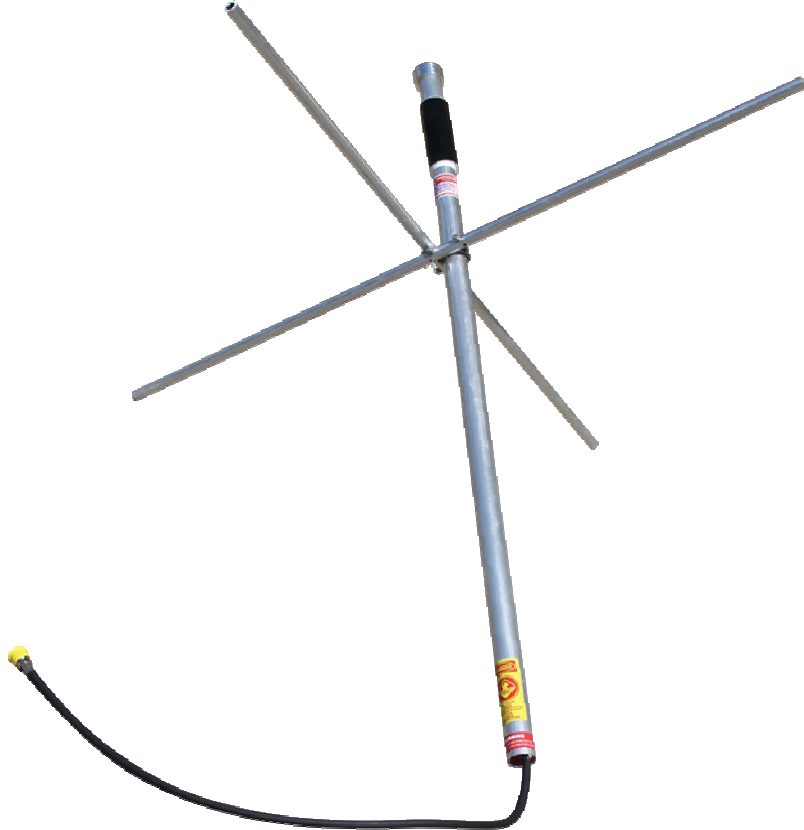
GP1 Series

Field Adjustable VHF UHF
Ground Plane Antenna
148-174 MHz

Electromagnetics

"Quality is everything."

JAG-GPX-150-0



FedEx
Shippable

- Civil aviation applications
- Land mobile networks
- Public security and safety
- Transportation networks



JAG-GPX-150-0 Product Specification Sheet.

Electrical Specifications		Mechanical Specifications		Environmental	
Model	JAG-GPX-150-0	Model	JAG-GPX-150-0	Model	JAG-GPX-150-0
Frequency Range (MHz)	144 – 174	Height	inches (mm) 55 (1,397)	Survival Wind Velocity With no Ice	mph (km/h) 130 (209)
Bandwidth @ 1.5:1 VSWR or Better (MHz)	2% of f_c	Width	inches (mm) 48 (1,219.2)	Survival Wind Velocity With Ice	mph (km/h) 85 (137)
Polarization	Vertical	Depth	inches (mm) 48 (1,219.2)	Maximum Allowable Radial Ice Buildup	inches (mm) 0.5 (12.7)
Radiation Pattern	Omnidirectional	Weight	lb (kg) 13 (5.90)	Equivalent Flat Plate Area	ft ² (m ²) 1.47 (0.14)
Nominal Gain (dBd)	Unity	Support Mast Outside Diameter Inches (mm)	1.5 (38.1)	Lateral thrust (100mph) 0 Radial Ice Buildup	lbs (N) 24.2 (107.6)
Nominal Horizontal 3dB Beamwidth (Deg)	360	Support Mast Allowable Clamping Space Inches (mm)	24 (609.6)	Torsional moment (100mph) 0 Radial Ice Buildup	ft-lbs (Nm) N/A
Nominal Vertical 3dB Beamwidth (Deg)	73 – 77	Mounting Information	No clamps supplied* (See JAG clamps page for suitable clamps)	Bending moment (100mph) 0 Radial Ice Buildup	ft-lbs (Nm) 47.7 (64.4)
Maximum Power (Watts)	150	Pigtail (ft) & RF Connector	5 – 5.5 & 'N' Male		

Specifications are subject to change without notice. As a result, all information contained in the present datasheet is subject to confirmation at time of ordering.

Dated: October-31-2012

Issue: 1

Made in Canada

Rev103112.0

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Features

- 2-year factory warranty (See page 3)
- Wideband
- Omnidirectional
- Easy transport and installation
- Easily field adjustable
- Fits in standard Otis Elevators
- DC Grounded
- Stainless steel hardware
- Easy storage
- Low PIM
- Operation in harsh environments
- Natural rubber plugs
- Side or tower top mountable
- Optional coatings
- Ideal for mobile command vehicles
- Ideal for monitoring stations
- Aluminum construction throughout

Description

One of JAG's most popular antennas, the JAG-GPX-150-0 is a fundamental level antenna. Its unique high efficiency wideband design allows it to be tuned anywhere in the 144-174 MHz frequency range with a VSWR of 1.5:1 or better by sliding the ground plane up or down. Due to this versatility and very low intermodulation response, the JAG-GPX-150-0 is useful in a wide range of functions ranging from trunking, business, public safety, government and even armature radio plus endless other applications.

The JAG-GPX-150-0 is a unity gain omnidirectional antenna that can be mounted on a variety of structures such as wooden telephone poles, buildings, tower tops, mobile command vehicles, marine vessels to name a few.

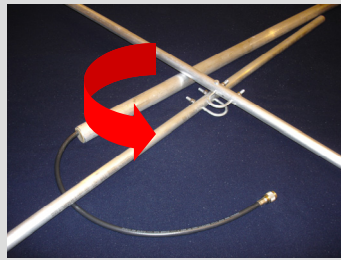
The JAG-GPX-150-0 features a heavy-duty design constructed from 6061-T6 aluminum and stainless steel for lightweight resulting in all elements operating at DC ground potential for an almost lightning proof antenna. Features such as natural rubber plugs make sure the internal harness remains well protected from the elements ensuring years of trouble free operation.

The JAG-GPX-150-0, with its rugged construction, lightweight and ease of installation, is ideal for leased or rented system use. Its wideband design also makes it perfect to stock for re-use or re-sale.

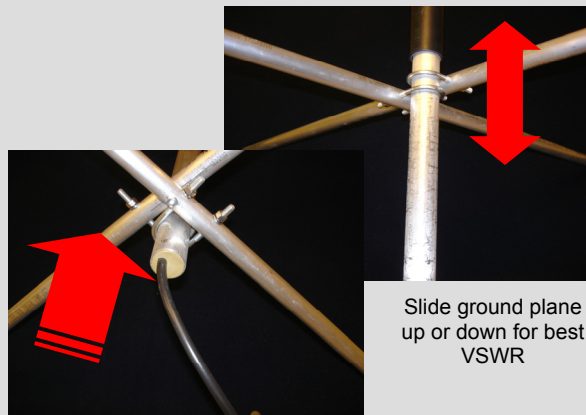
JAG-GPX-150-0 at a glance



Antenna pulled from shipping tube



Spread ground plane radials 90-deg apart



Slide ground plane assembly over feed cable and onto antenna

Slide ground plane up or down for best VSWR

*Site-specific mounting hardware is necessary with these antennas. Please consult JAG to determine suitable clamps for your application.

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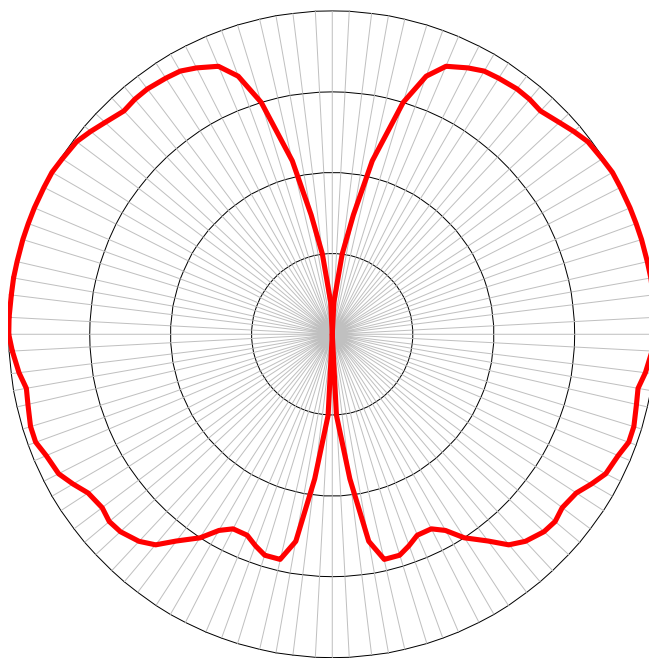
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Vertical Radiation Pattern For Vertical Polarization



Elevation

— Half Wavelength Spacing

* This is a general representation of the Jagy1 Series JAG-GPX-150-0 antenna radiation pattern. For the latest detailed pattern contact JAG Applications Engineering.

WARRANTY

JAG Electromagnetics warrants all its products against defects in material or workmanship and is only applicable if failure results from these factors within five years from the purchase date by the user. Jag Electromagnetics will be responsible for the supply, at no charge, of new or rebuilt replacements in exchange for defective parts for the duration of the warranty. This warranty does not extend to any JAG products that have been subject to misuse, neglect, accident, improper installation or application. In addition, this warranty does not extend to products that have been repaired or substantially altered outside our manufacturing plant.

JAG Electromagnetics will not be liable for any incidental or consequential damages due to failure of a JAG product under this warranty or any implied warranty. JAG is in no event liable for consequential damages or other costs of any kind as a result of the use of the products manufactured by JAG. No envoy is sanctioned to presume for JAG any other legal responsibility in connection with JAG products. JAG Electromagnetics is not accountable for replacement of any product damaged by lightning.

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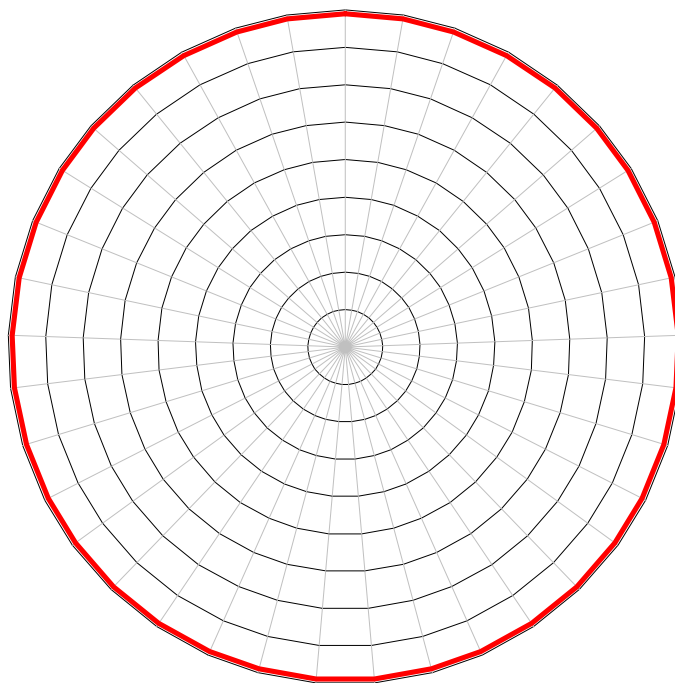
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Horizontal Pattern For Vertical Polarization



Azimuth

— Half Wave Spacing

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