

Antenna Authority, Inc.

DF Antennas Our Specialty!

www.AntennaAuthorityInc.com

3381 West County Line Rd. Douglasville, GA 30135-1145

P: 770-577-7969 F: 770-577-7180 C: 770-331-0436



PRODUCT SPECIFICATION

Product Code --- DASA-3172 DF ANTENNA



Back view connections



Front view

An Accurate Compact Antenna for Mobile Operations

The DASA-3172 Mobile DF Antenna is a VHF/UHF antenna consisting of 2 annular slot elements enclosed within the antenna housing for accurate and repeatable bearings. It includes the modulator, control and coax cables. The antenna is designed to receive vertically polarized signals in the 20 MHz to 1 GHz frequency range.

The antenna electronics are mounted inside the chassis with the antenna elements and the unit is enclosed in a compact PVC formed, ruggedized, and lightweight abrasive resistant cover with UV protection. Vehicle mounting brackets are provided for stability and are attached to the bottom of the chassis to facilitate vehicle installation. All power and control signals to the antenna are provided through one 9 conductor control cable from the DF processor. The received signal, with bearing information encoded, is routed to the receiver through a RF coaxial cable. Control signals are compatible with the AADF-3101 DF Processor by Antenna Authority Inc.

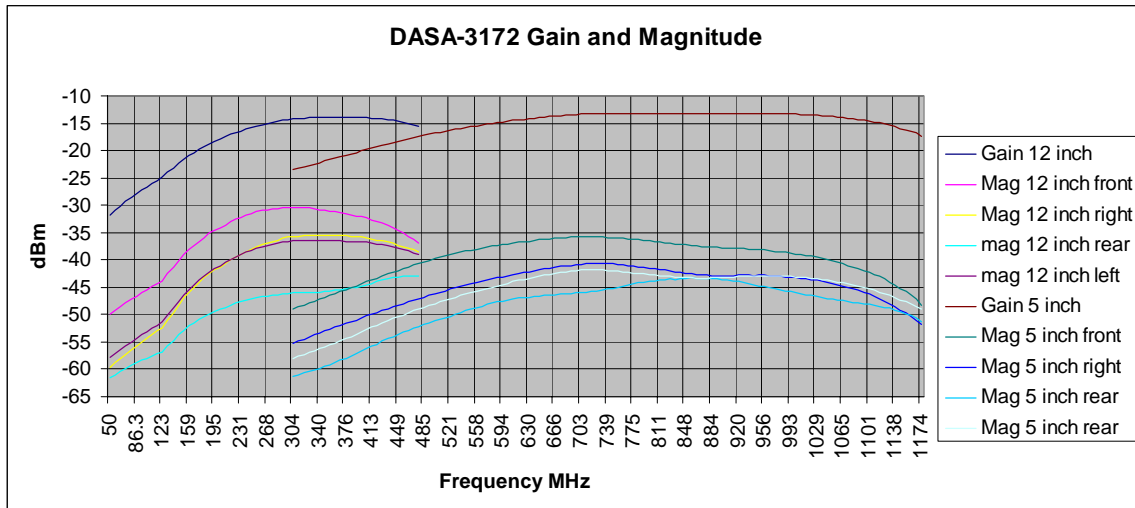
Electrical Specifications

Frequency Coverage:	20 MHz to 1.1 GHz
Azimuths Coverage:	360° in azimuth
Calibration	Manually set depending on receiver and antenna location
DF Technique:	Watson-Watt single frequency
Antenna:	4-element dual annular slot multiple bays
Bearing Accuracy:	6° rms
Power:	Voltage: 11.5 - 14.5 VDC Current .5 amps
Polarization:	Vertical
Impedance:	50 ohms
Bands	2
Connectors	TNC, Amphenol PT02A

Mechanical Specifications

Dimensions:	Width: 23" - Length: 23" Height: 5" - Weight: 15 lbs
Environments:	Operating: -40°C to +60°C Storage: -40°C to +70°C Humidity: 95%
Material:	Aluminum, FR-4, Foam, PVC
Cover:	Black PVC UV Protection

Typical Gain and Pattern of Annular Slot Antenna



Ordering Information

Antenna Model No. DASA-3172
 DF Processor required Model No. AADF-3101
 One year warranty on parts and labor
 Specifications subject to change without notice
 Printed in U.S.A. Copyright 4/1/2011