

Antenna Authority, Inc.

DF Antennas Our Specialty!

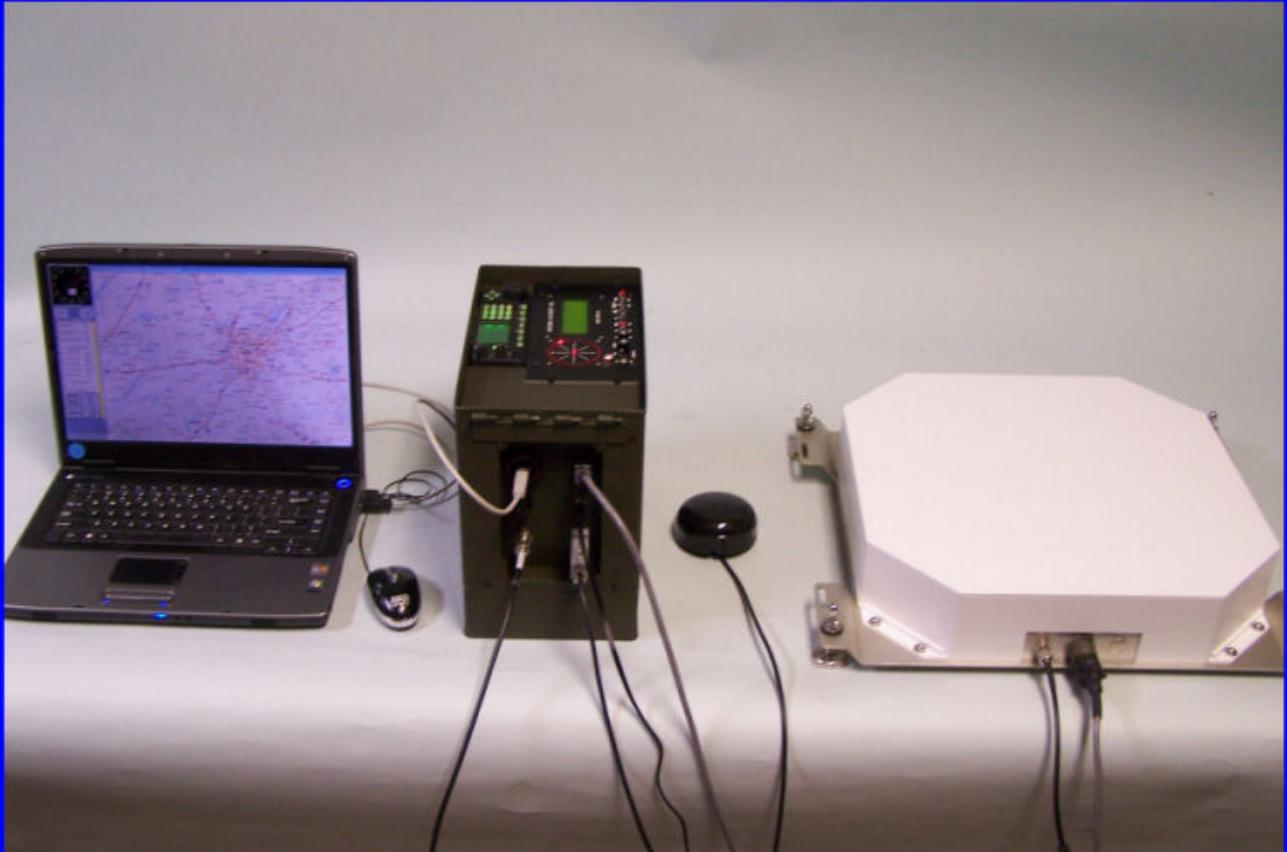
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Product Code --- MPDF-3172 DF System



An Accurate Compact Portable DF Monitoring System

The Man Portable DF antenna is intended to be mounted on a vehicle or alternate tripod. It is light weight low power and easily transportable. It may be used to monitor and to take bearings on constant or intermittent, clandestine RF radiators. The COR can be set so that when signal comes on the air a bearing is taken and displayed on the map. The bearing information is stored and can be played back later on the same or a different computer.

MPDF-3172 consists of following equipment cables and shipping cases*

DASA-3172 antenna in separate transportable case with cables

AADF-3101 DF processor :processor receiver and USB to

AR-8600 receiver :serial is enclosed in one box to

USB to Serial RS-232 :reduce the cables needed externally

Garman 16X HVS

Control software with Map Point Mapping

Shipping Cases

***Laptop computer optional**

Protected Recessed Slot on Side



The antenna is a dual band annular slot type that is 17" square by 3" high and has magnetic mounting feet to attach it to the roof of a vehicle. It is enclosed in a PVC formed, ruggedized, and lightweight abrasive resistant plastic cover with UV protection.

All power and control signals to the antenna are provided through a protected recessed slot in the side of the housing. Fifteen feet of shielded coaxial and control cable is provided with each MPDF-3172 DF System. The received signal with bearing information encoded is routed to the receiver through an RF coaxial cable. The GPS receiver is of new design with extra gain and can be mounted on the dash with good results. The GPS provides LAT/LON for the mapping and timestamp for the bearings. The unit comes with shipping cases to make it convenient for shipping to remote installations.

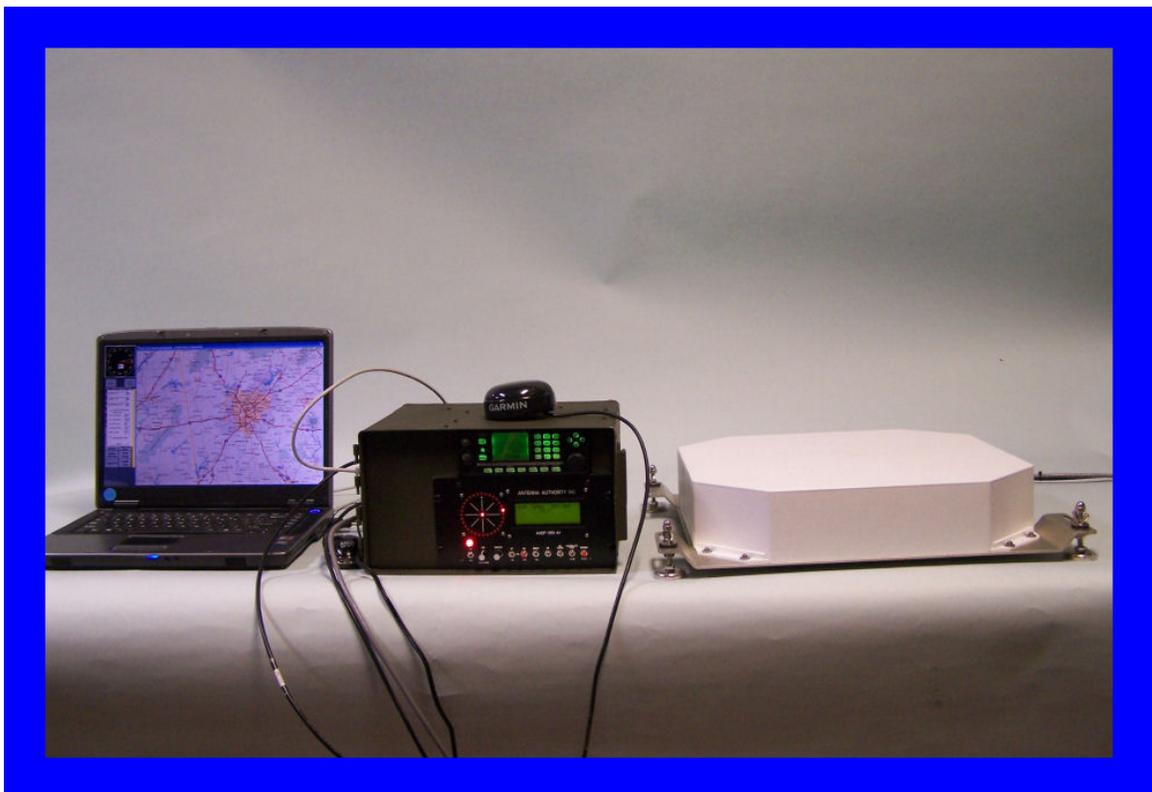
Software

The software provided is intended to control the DF processor and receiver to monitor the frequency of interest. When the PLOT Button is pressed or COR is activated, a signal is detected and the bearing, time and position is saved. It may be played back later on the same or a different computer to review the scenario.

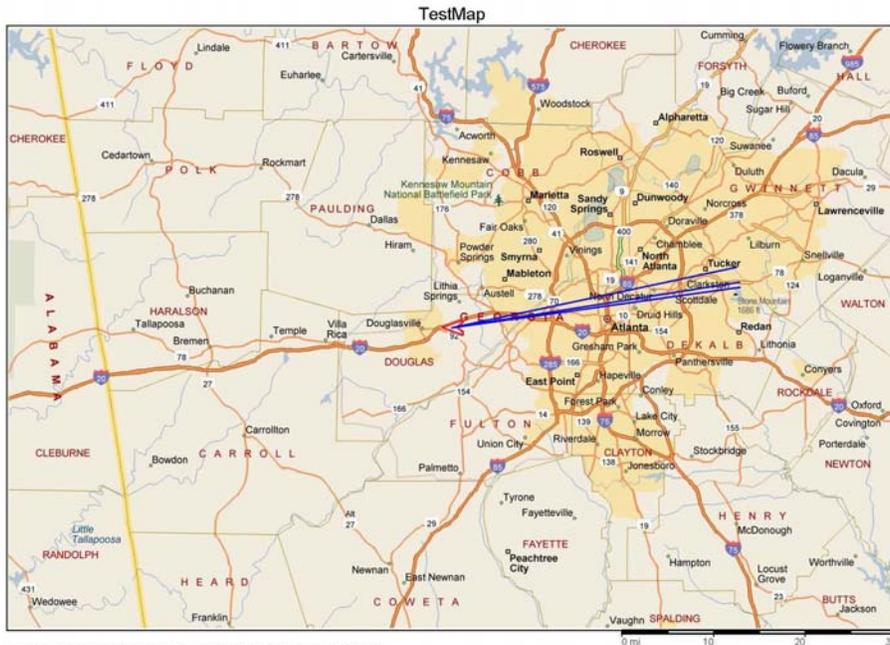
View of DF in use



View of connections



View of typical map



Map of bearing cuts for NOAA Weather station at 162.55 on Stone Mountain from Douglasville - 32 miles.

Electrical Specifications

Frequency Coverage:	20 MHz - 1.1 GHz	Azimuth Coverage:	360° in azimuth
DF Technique:	Watson Watt Phase	Antenna:	Dual Annular Slot
Bearing Accuracy:	6° rms	Polarization:	Vertical
Power:	Voltage:		115 VAC 300 watts
AOR	350 ma		
DF	450 MA		
Laptop AC	110 250 Watts		

Mechanical Specifications

Antenna Dimensions: Diameter 24", Height: 5", Weight: 35 lbs
Environments: Operating Temp.: -40°C to +60°C, Storage Temp.: -40°C to +70°C

Ordering Information Model No. MPDF-3172
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Specifications subject to change without notice