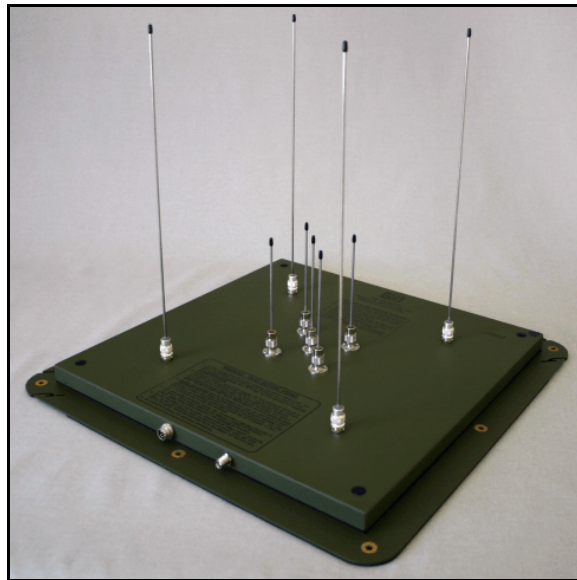




FEATURES

- C 75-1,000 MHz Ultra-Wide Coverage In Two Bands
- C True Adcock Design - Does Not Use Inferior Loops
- C Ultra-High Signal Handling Capability
- C Vehicle Roof-Top or Aircraft Installation
- C Low-Profile Platform with Removable Aerials
- C Built-In RS-232 Personality Module



DESCRIPTION

The RDF Products Model DMA-1325B1 is a dual 4-aerial VHF/UHF monopole Adcock single-channel radio direction finding antenna covering 75-1,000 MHz in two bands (75-350/350-1,000 MHz). This rugged, compact, light-weight, weather-sealed unit is specifically designed for mobile DF applications, and is easily installed on cars, vans, aircraft, or any platform having a sizeable metallic ground plane. The aerials do not need to be changed to cover the full specified frequency range, and are easily removed for convenience of shipping and storage.

Being of a true Adcock design, the DMA-1325B1 avoids the erratic performance associated with inferior loop DF antennas and provides sensitivity and listen-thru capability superior to that of comparable pseudo-Doppler units. The DMA-1325B1 has also been designed with ultra-high signal-handling capability for reliable performance in dense signal environments. The unit is particularly attractive in that it offers ultra-wide frequency coverage in a modestly-sized package.

The DMA-1325B1 directly interfaces with all RDF Products DF receivers and bearing processors via a 4.5-meter interface cable. With its built-in personality module, the unit automatically conveys model and band information via RS-232 to RDF Products "B"-series DF processors.

SPECIFICATIONS

DF Technique:	Single-channel 2-phase Adcock (mixed sense)
Frequency Coverage:	75-350/350-1,000 MHz
Bearing Accuracy:	3° RMS (VHF) 5° RMS (UHF) (ideal siting conditions)
Polarization:	Vertical
Output Impedance:	50 ohms nominal
2nd Order Intercept:	+40 dBm (75-350 MHz) +25 dBm (350-1,000 MHz) (referenced to derived or central sense input)
3rd Order Intercept:	+25 dBm (75-350 MHz) +12 dBm (350-1,000 MHz) (referenced to derived or central sense input)
Power Requirements:	11-16 VDC @ 350 mA
Operating Temperature:	-40 to +60 degrees C
Storage Temperature:	-40 to +70 degrees C
Humidity:	0-100%
Dimensions:	17.875"x22.0"x22.0" (HxWxD; with baseplate less cables)
Weight:	12 lbs. (less cables)

Note: Specifications are subject to change without notice.
Rev A01/10-05/dma1325b1_pds_01

APPLICATIONS INFORMATION

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The RDF Products Model DMA-1325B1 has been designed as a general-purpose high-VHF and UHF mobile DF antenna covering an ultra-wide frequency range. One of the outstanding features of this unit is its ability to cover its full 75-1,000 MHz range without the inconvenient requirement for removing the unused aerial set. More specifically, it is not necessary to remove the VHF (outer) aerial set for UHF operation (a common requirement for dual 4-aerial Adcock designs).

For vehicle roof-top installations, nylon mounting straps and rain-gutter hooks are supplied for fast and convenient temporary mounting to cars, vans, mini-vans, and utility vehicles. These mounting straps loop into the slots milled into the 1/8" thick bottom-plate for this purpose.

A rubber protective mounting pad is adhesively attached to the bottom-plate to protect painted vehicle roof-tops. The unit can also be bulkhead mounted using the eight quarter-inch holes drilled into the bottom-plate flange.

For the convenience of users contemplating bulkhead mounting, the protective adhesive-backed mounting pad can be supplied detached from the bottom-plate upon request.

The DMA-1325B1 includes a digital "personality module" that reports model number and frequency coverage information for this DF antenna. When connected to any one of the RDF Products "B"-series DF processors (e.g., the DFP-1000B, DFP-1010B, or DFR-1000B), the DMA-1325B1 automatically reports its model number and frequency coverage information. This information is then displayed so that the user can easily avoid out-of-band operation.

The DMA-1325B1 is intended for law-enforcement, surveillance, signal intelligence, frequency management, interference location, search-and-rescue, scientific, and other applications requiring professional-quality radio direction finding equipment.