

# \*DF20M3000AIO (20-3000 MHz)

\*featuring our patented HESA™ DF Technology

## All-In-One (AIO) Direction Finding Antenna

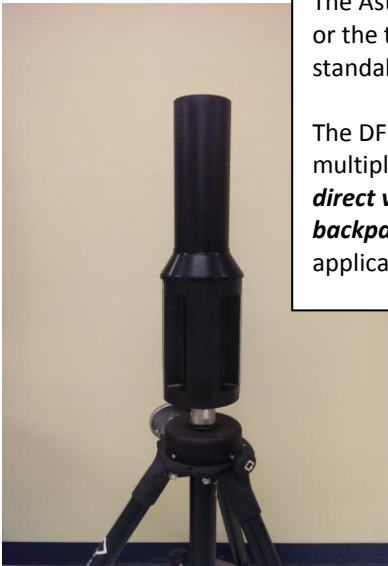


Figure 1: Antenna w/center sleeve

The Astron DF20M3000AIO, Direction Finding Antenna system operates from 20-3000 MHz as a complete unit or the top (500-3000MHz) and bottom (20-500 MHz) unit can be detached from each other and used as standalone DF antennas.

The DF20M3000AIO antenna is a rugged, light weight and highly durable antenna capable of usage on multiple platforms unlike any other DF antenna. **For example, the "AIO" system in a single mission can be direct vehicular mounted (or mast) for OTM DF, then detached for quick set tripod mount detection to backpack mounted for on the go detection and acquisition.** No other DF system gives the operator multi-application functionality with superior performance and low acquisition cost for today's demanding budgets.



Figure 2: (L to R) 500-3000 MHz. and 20-500 MHz.



Figure 3: Grip handles for easy on the go portability

### Benefits:

- Full band or split band usage for specific mission requirements
- Reduces the need for multiple antennas
- Rugged, lightweight and durable, made to withstand the harshest of environments
- Quick detachment method to move between applications seamlessly
- Grip handles for on the go mobility
- Excellent performance across the 20-3000 MHz. operating band
- Easy to install on most any platform
- Full band 20-3000 MHz. non-switching, continuous operation
- Low cost multi-functional DF solution
- **Custom packaging solutions available**

MECHANICAL	Model DF20M3000AIO
OVERALL SIZE	<24" high (12" per section), 6" diameter stepped to 4"
WEIGHT	Less than 11 lbs overall, (5.5 lbs per section)
MOUNTING	D38 999
CENTER SLEEVE	Conical slide sleeve for covering the mid-section connection point
CONNECTORS	D38 999
ENVIRONMENTAL	
ALTITUDE	10 K Feet
VIBRATION	Mobile
TEMPERATURE	-30 C to 55 C
HUMIDITY (Non-Condensing)	95%

ELECTRICAL	Model DF20M3000AIO
FREQUENCY	20 MHz to 3000 MHz
POLARIZATION	Vertical
IMPEDANCE	50 ohms
GAIN (Typical)	-45-0 dBi L
PATTERN	
AZIMUTH	360 Degrees
ELEVATION	COSINE
AZIMUTH NULL DEPTH-SINE AND COSINE	15 db Typical
POWER	Receive – 0.5 Watt Rx CW

**Other Models Available: DF20M500AIO (20-500 MHz, bottom section only)**  
**DF500M3000AIO (500-3000 MHz, top section only)**

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