

PRODUCT STATUS: COTS  
VERSION: 1.0



### PRODUCT DESCRIPTION:

The DF-A0010 is a handheld interferometer that is optimized for dismounted direction-finding applications. The interferometer superimposes an angle-modulated audio tone onto the received signal, the strength of which is proportional to the difference between the angle at which the antenna is pointing and the true bearing to the source. By turning the antenna until this tone disappears, an accurate bearing to the source can be obtained via the built in compass on the top of the DF control handgrip.

The DF-A0010 consists of a moulded handgrip containing the DSP processor and three optional plug-in antennas covering 20 - 150 MHz, 150 - 500 MHz and 500 MHz - 3 GHz. The hand controller unit has indicators that show whether the signal being tracked is to the left or right of the operator, making it easy to home in on the signal and ensuring that there is no ambiguity as to the true signal direction.

The DF-A0010 is lightweight yet robust making it easy to carry and operate under demanding field conditions. It is powered by rechargeable batteries, which last for 20 hours of normal usage before recharging. The unit is supplied with a mains charger. Through its modular, "plug 'n play" antennas, the DF-A0010 provides cost-effective full-spectrum coverage from 25-3000 MHz. The desired antenna element is simply clipped into the DF Controller handgrip and all electrical connections are made automatically. The DF-A0010 requires a suitable radio receiver for operation (not supplied).

Note that the DF-A0010 is intended for the direction-finding of continuous signals. It is not suitable for direction-finding short burst or frequency-hopping signals.

### SPECIFICATIONS:

<b>Product Codes:</b>	
DF-A0010-01	Hand controller with charger and carry case
DF-A0010-02	20 – 150 MHz Antenna Element
DF-A0010-03	150 – 500 MHz Antenna Element
DF-A0010-04	500 MHz – 3 GHz antenna element
<b>Hand Controller:</b>	
Height	161 mm
Width	48 mm
Depth	85 mm
Weight	700 g
DF RMS Error	20 <sup>o</sup> hr above 50 MHz 40 <sup>o</sup> below 50 MHz
Battery Life	20 hr at 20 <sup>o</sup> C 10 hr at -20 <sup>o</sup> C
Input Voltage	110 – 240 VAC 50 - 60 Hz
Charge Time	12 hr
<b>20 – 150 MHz Antenna:</b>	
Boom width	760 mm
Element Height	1000 mm
Weight	980 g
Gain	-40 dBi at 25 MHz -20 dBi (60 – 150 MHz)
<b>150 – 500 MHz Antenna:</b>	
Boom width	262 mm
Element Height	684 mm
Weight	380 g
Gain	-12 dBi
<b>500 – 3000 MHz Antenna:</b>	
Boom width	150 mm
Element Height	270 mm
Weight	350 g
Gain	-12 dBi
<b>Environmental:</b>	
Rain	MIL-STD-820F Method 506.4
Temperature (operational)	-20 <sup>o</sup> C to +50 <sup>o</sup> C
Shock	20 G / 10 ms

### PRODUCT FEATURES:

- Left/right direction indication simplifies operation.
- Small, light and easily operated by a single person.
- Wide operating frequency range.

### APPLICATIONS:

- Location of unauthorised transmissions.
- Location of electrical noise and interference.

# Handheld Interferometer

20 - 3000 MHz

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DF-A0010-01 with DF-A0010-03 in Carry Case

