

TACTICAL LOW FREQUENCY DIRECTION FINDING SYSTEM FOR DEFENSE FORCES

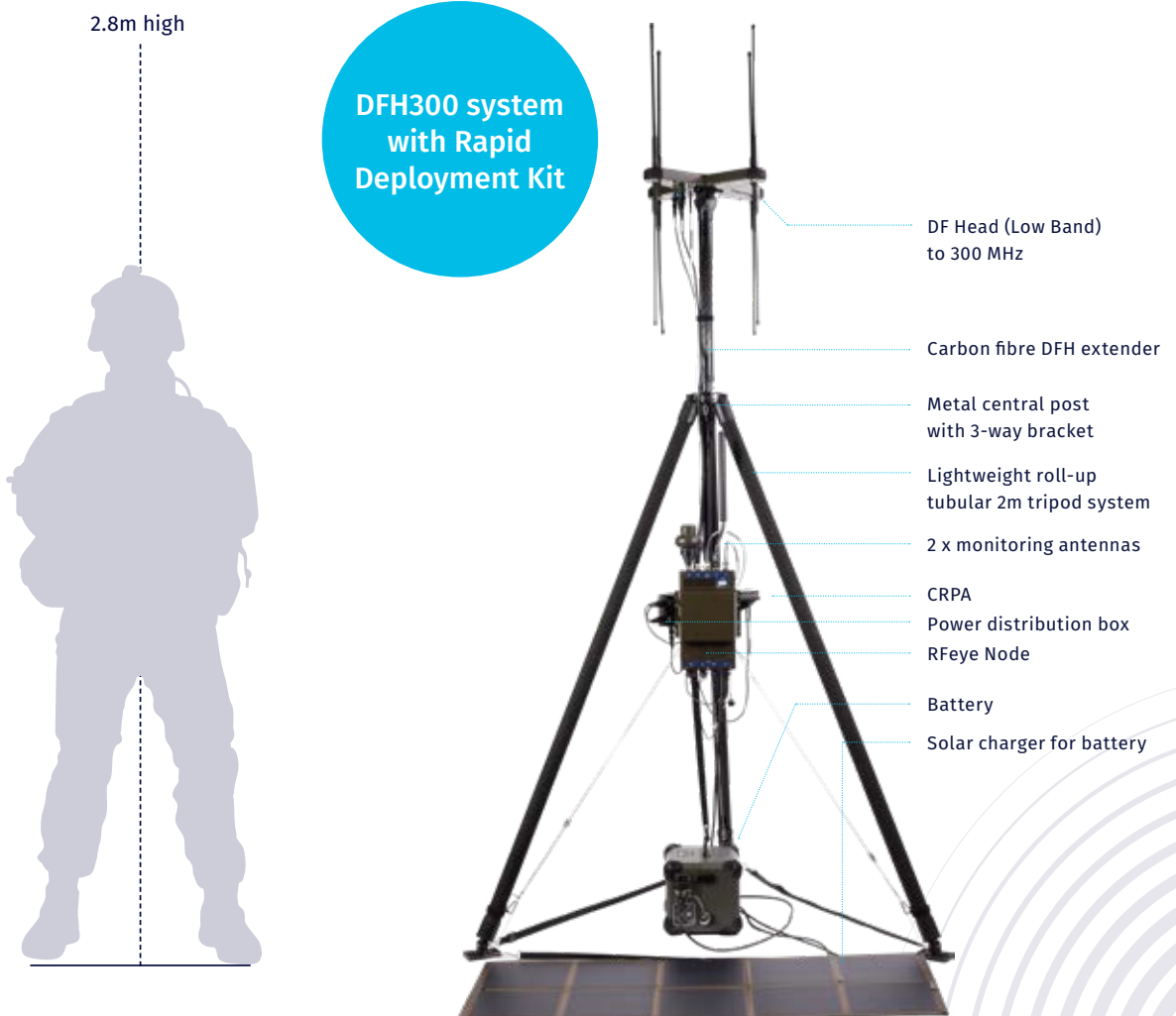


The **RFeye DFH300** provides a tactical direction-finding head with compact DF antennas.

It can be attached to any RFeye Node. The result is a unique combination of functionality and performance in a system of this size. It adds a robust, reliable extension for intelligence and electromagnetic EW system direction finding in a tactical form-factor. The system is lightweight, rapidly deployable and ruggedized. It is suitable for stationary and mobile (dismounted) deployment. It enables mission-critical intelligence when it's needed. The system comes with multiple deployment configurations to suit your operational needs.

CONCEPT OF OPERATIONS

- >> Reliable VHF / UHF direction finding
- >> Real-time line-of-bearing 30MHz - 300MHz
- >> Supports ISR, locating low band radio and communication signals, interference sources and radio monitoring
- >> Extended operating time with swappable battery packs, solar pack options
- >> Easy integration with RFeye Node
- >> Flexible and easy to use



ILLUSTRATIVE PERFORMANCE



DF Head	
DF frequency range	30 MHz to 300 MHz
DF accuracy	3° RMS typical
Polarization	Vertical

Monitoring Node - compatible with all RFeye Nodes				
RFeye Node *	Node 40-8 *	Node 100-8 *	Node 100-18 *	Node Plus 100-18 *
Spectrum Monitoring frequency range	9 kHz to 8 GHz	9 kHz to 8 GHz	9 kHz to 18 GHz	9 kHz to 18 GHz
Instantaneous bandwidth	40 MHz	100 MHz	100 MHz	100 MHz
Scan rate	245 GHz / sec	280 GHz / sec	384 GHz / sec	384 GHz / sec
RF recorder (I/Q data)	10MHz stream	12.5MHz stream	12.5MHz stream	100MHz stream

* Also available with Node 100-40

General Specifications	
Monitoring DDC I/Q Data Format	VITA-49 / HDF5 / XDAT
Enhanced signal analysis capability	Yes
Networked operation	Yes
Weight of Low-band DF Head	< 5kg
Dimensions of Low-band DF Head	60 x 60 x 110cm
Power consumption	45W typical (including RFeye Node)
Power supply	12V DC
Operating temperature	-20°C to +55°C



INTEROPERABILITY

The DFH300 is interoperable with other RFeye products, for multi-site monitoring and geolocation. The DFH300 can be used in a network with other RFeye Nodes for TDOA and AOA geolocation.



BENEFITS

- >> Small form-factor
- >> Low-band DF compact head
- >> Rapid deployment
- >> Highly configurable
- >> Expandable performance
- >> Intuitive GUI operation with rugged laptop or tablet

RELATED EQUIPMENT



Monitoring antennas
Various antenna options available

RFeye® Site (Software)
Real-time spectrum monitoring and geolocation toolkit

Backhaul
Compatible with standard IP backhaul links. Options include Silvus MANET radio and Starlink
Optional




Power distribution box



Ruggedized laptop
Optional



Extension battery with solar back-up
Optional



CRPA Anti-jam GNSS antenna



CRFS Inc
Chantilly,
VA, USA
+1 571 321 5470

CRFS Ltd
Cambridge,
United Kingdom
+44 (0) 1223 859 500

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