

## **BLACKSTONE BODY-WORN DF/TDOA SYSTEM**

### LEVERAGE THE BENEFITS OF PM TECHNOLOGY.

The DRS Blackstone Body-Worn DF/TDOA System provides mission-critical intelligence to the warfighter by rapidly detecting and locating a wide range of threat signals, monitoring signals of interest, and supporting real-time analysis of the signal environment. The system's light weight, low power consumption, field programmability, and multiple deployment confi gurations make it well suited for a wide range of operational scenarios. This DF sensor can easily be easily integrated into existing MOLLE/PALS webbing chest rigs and with a tactical radio for internode and squad communications.

The Blackstone System utilizes ruggedized Smartphone Technology for configuration, command and control of the system. It also displays parameters of intercepted signals and the positions of team members overlaid on a geo-referenced map. This provides situational awareness.







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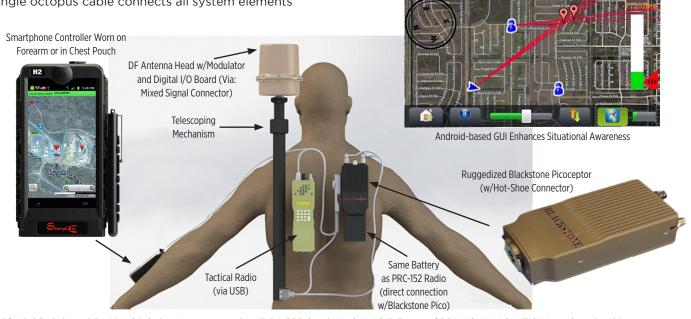


### **FEATURES**

- Collapsible small form-factor DF antenna
- Employs a low-SWAP dual-channel 6 MHz SI-8649A Picoceptor<sup>™</sup> in a ruggedized chassis designed to meet MIL-STD-810G specifications
- PicoceptorTM software load supports high-speed scanning, monitoring, and geo-location of narrowband signals in the 2-3000 MHz band
- Supports single- or multi-node operations
  - Utilizes tactical radio for communications infrasturcture
  - Smartphone, chest-mounted or worn on forearm, features Android-based GUI
  - Flexible targeting control
  - Mapping of DF/TDOA and team node positions
  - Collaborative DF
  - Audio/Visual Target Alerts
- Supports the following external interfaces:
  - · Telescoping small factor DF antenna assembly
  - Tactical radio (not supplied)
  - Scorpion H2 Android controller
  - 5590/2590 Battery connector
  - External SAASM GPS (not supplied)
- Mission-based system log files
- Single octopus cable connects all system elements

#### SYSTEM CAPABILITIES

PARAMETER	SPECIFICATION
	SPECIFICATION
Frequency Range DF (full specification)	100-1000 MHz
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DF (reduced specification)	20-100 MHZ; 1000-2000 MHz
TDOA (optional)	2-3000 MHz
Frequency Resolution	1 Hz
DF Accuracy	8 degrees RMS maximum
Modulation Types	AM, Narrowband FM, Wideband FM, USB, LSB, CW
DF of Frequency Hoppers	Yes, < 50/sec
Instantaneous IF Bandwidth	6 MHz
Tuning Speed	< 500 microseconds
Number of Channels	Тwo
I/O	1 USB HS port (host or device)
Optional I/O	RS-232, 1 pps input, 2nd USB
Data Output frequency	Scan (up/down reports), DF (w/ standard deviation), and audio logs in XML format)
GPS input	Internal or Optional External
Internal Storage	Up to 48 GB
Time Stamp	Yes
Overall Weight	13.8 lbs.



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# LEONARDO DRS

DRS Airborne & Intelligence Systems 100 North Babcock Street, Melbourne, FL 32935 USA Tel: + 1.321.339.9657 | EWISR@drs.com