RT-600

smartDF

Remote your Direction Finder with Confidence

BLE

The product

smartDF is a mobile iPadOS application designed for remote control and monitoring of Rhotheta radio direction finders (RDFs). The application connects wirelessly with the RDF sensor over Bluetooth® Low Energy (BLE) or Wireless Fidelity (Wi-Fi™) link. All information available from the RDF sensor is conveniently displayed over electronic maps with state-of-the-art graphics. smartDF is an efficient mission tool for airborne and ground search-and-rescue (SAR) and recovery operations in V-UHF bands.

Features at a glance

- Efficient mission tool for SAR and recovery ops in V-UHF bands
- Compatible with Rhotheta models RT-400 and RT-600
- Wireless connectivity via BLE® or Wi-Fi™
- Display bearing and location of ELT, PLB, EPIRB, AM/FM radios
- Cospas-Sarsat™ and LoJack™ bearing and decoding
- Bearing line (LOB, LOP) plots save/delete menu
- Bearing Intersection (triangulation) area
- Live bearing cone plot, minimum and maximum values
- Agile setting of frequency, squelch, DF modes, scan modes
- "Heading source" and "GPS mode" menu
- DF/GPS/Errors data logging, repeat, replay, and export

RT-400

RHO
International Inc
THETA
The Leader in DF

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Features vs Version

Feature	STD (RS-232)	PRO (RS-485)
■ RT-600-A, RT-600-L: AU + DCU, RS-232 port	✓	X
■ DCU required for operation	✓	X
■ BLE® 5.0+ and Wi-Fi™ wireless connectivity.	✓	✓
■ "Averaged" and "Live" REL BRG plots.	✓	✓
■ "Averaged" MAG BRG plots (requires MAG HDG input). . .	✓	✓
■ LOB / LOP plots, save/delete menu	✓	✓
■ Agile setting of frequency, band, squelch level	✓	✓
■ Agile setting and selection of Standby frequency	✓	✓
■ Receive signal strength and squelch level indication.	✓	✓
■ Beacon data decoding (Cospas-Sarsat™, LoJack™)	✓	✓
■ Data logging, repeat, replay, export (DF, GPS, Errors)	✓	✓
■ Mapbox™, IFR/VFR charts, Vectorized, Offline Maps.	✓	✓
■ RT-600-A, RT-600-L, RT-400: AU-only, RS485 port.	X	✓
■ Agile selection of scan modes.	X	✓
■ Agile selection of LoJack™ modes.	X	✓
■ Up to 4 LoJack IDs, user selectable.	X	✓

LEGEND

AU: Antenna unit (DF sensor)
BLE: Bluetooth Low Energy
BRG: Bearing
DCU: Display control unit
HDG: Heading
IFR: Instrument flight rules
LOB: Line-Of-Bearing
LOP: Line-Of-Positioning
MAG: Magnetic
REL: Relative
VFR: Visual flight rules
VHF: Very high frequency
UHF: Ultra high frequency
Wi-Fi: Wireless Fidelity

TECHNICAL DATA

Required Connectivity	Bluetooth® BLE, Wireless Fidelity (Wi-Fi™)
Compatibility	RT-600-A, RT-600-L, RT-400
Map Capability	MapBox™ Library for Geolocation, Vectorized Layers, Offline Maps, IFR/VFR charts. Light, Dark, Streetview, Satellite.

MINIMUM TABLET REQUIREMENTS

Operating System	• iOS 15.0 or newer
	• Wi-Fi 802.11a/b/g/n/ac
	• HT80 with MIMO
	• Bluetooth® 5.0
	• UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)
Cellular and Wireless	• GSM/EDGE (850, 900, 1800, 1900 MHz)
	• Gigabit-class LTE (Bands 1, 2, 3, 4, 5, 7, 8, 11, 12, 13, 14, 17, 18, 19, 20, 21, 25, 26, 29, 30, 34, 38, 39, 40, 41, 46, 48, 66, 71)
Location	• Digital Compass • WiFi • Cellular
	• iBeacon Microlocation • Built in GPS/GNSS
Sensors	Accelerometer

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