



# smartDF

Compatible with RT-600 and RT-400 Systems

## Product Overview

smartDF is an iPadOS application designed for remote control and monitoring of Rhotheta Radio Direction Finders (RDF). It connects wirelessly to compatible RDF hardware over Bluetooth Low Energy (BLE) or Wi-Fi and displays bearing, signal, and location data on electronic maps. smartDF is built for airborne and ground search, rescue, and recovery (SAR) operations in the V/UHF bands.

## Features at a glance

- Mission-ready tool for airborne and ground SAR and recovery operations
- Compatible with Rhotheta RT-400 and RT-600 systems
- Wireless connectivity via BLE and Wi-Fi
- Displays bearing and location data for ELT, PLB, EPIRB, and AM/FM radio signals
- Cospas-Sarsat and LoJack bearing and decoding
- Bearing lines (LOB/LOP) plots with save/delete menu
- Triangulation by bearing intersection
- Live bearing cone with minimum and maximum bearing values
- Fast control of frequency, squelch, DF modes, and scan modes
- User-selectable heading source (GPS/Compass)
- Bearing and decode data logging with repeat, replay, and export functionality



TRIANGULATION



HOMING



DECODE



[www.rhothetaint.com/smartDF](http://www.rhothetaint.com/smartDF)

FEATURES	BASIC	STANDARD	PRO
Main Capability	View Only	DCU Control	AU Control
Data Interface	RS-232	RS-232	RS-485
Live Bearing Display	Yes	Yes	Yes
Maps & Charts	Dark, Satellite	Dark, Satellite, IFR Low, IFR High, VFR charts	Dark, Satellite, IFR Low, IFR High, VFR charts
Intersection Area Display	No	Yes	Yes
Saved Bearing Lines	Up to 5	Unlimited	Unlimited
Replay & Review	No	Yes	Yes
Decode & ID Log	No	Yes	Yes
Log Export	No	Yes	Yes
Audio Options	Standard	Standard	Advanced
User Icon Settings	Fixed	Adjustable	Adjustable
Wireless Connectivity	BLE and Wi-Fi	BLE and Wi-Fi	BLE and Wi-Fi
Signal Indication	Receive signal strength and squelch level indication	Receive signal strength and squelch level indication	Receive signal strength and squelch level indication
Scan Mode <i>(only band scan)</i>	No	Yes	Yes
LoJack IDs	View only	Up to 2 VLU IDs, user-selectable	Up to 2 VLU IDs, user-selectable
Heading Source	GPS / iPad compass user selectable	GPS / iPad compass user selection	GPS / iPad compass user selection

#### 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 IPAD REQUIREMENTS

Operating System • iPadOS 26.0 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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