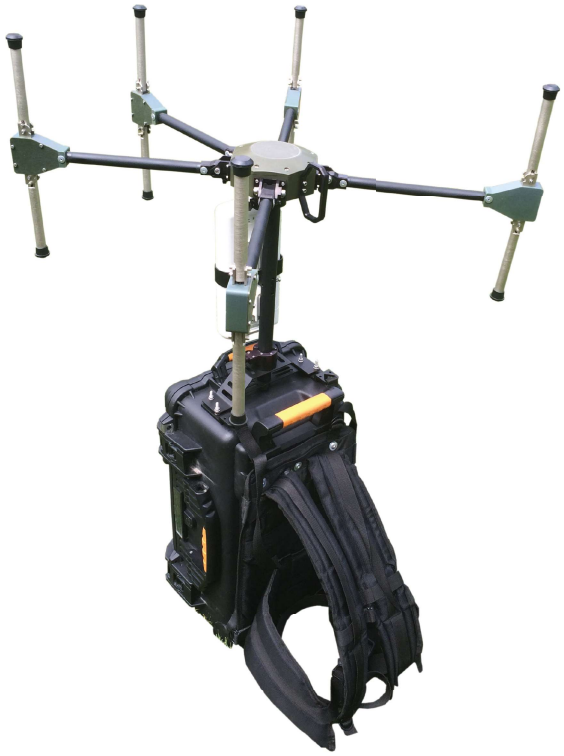
Symlab GmbH

ON THE MARCH DIRCTION FINDER

TVUIDF2778F2



FEATURES

- Direction finding capability on the move by person
- High accuracy and search speed
- Variable modes, Fix Frequency mode, FFM, Wide Band Modes, WBM
- Coverage band ferequency 20MHz– 700MHz
- Bandwidth IF – 80MHz
- Scan speed 500MHz/sec
- New direction algorithm (SPARSE , IFDFC ,Watson Watt , SRDF)
- User connection with network and Wi-Fi
- Capability transmition data between several systems for position finding
- Display direction on the map
- Utilizing GPS, compass and modem for increased system capabilities
- 24hrs function with internal DC source and AC source

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Technical Specification

Requirements	Parameter
Frequency range	20 MHz to 700 MHz
Array Element Types	DF: 20MHz to700 MHz, 5 Element dipole array
Polarization	Vertical
Communication	Wi-Fi, LAN
RF Switch	High dynamic range
DF method	Correlative interferometer & Watson-Watt & SPARSE & SRDF
Instrument DF accuracy	0.5° RMS
Display	azimuth vs. frequency, level vs. frequency, polar diagram, histogram, waterfall, real-time IF panoramic display (bandwidth 100 kHz or 1 MHz)
Display resolution	0.1° to 5° (selectable)
DF sensitivity	typ. 0.3 µV/m to 8 µV/m
Operating modes	FFM (Fixed Frequency Mode),WBM (Wide Band Mode), SCAN (F-SCAN, M-SCAN)
Instantaneous bandwidth	10 MHz (Optional:80MHz)
Frequency span in wideband mode	1 MHz/2 MHz/4MHz/10MHz
Minimum signal duration	0.5 ms
Scan speed with 20 kHz resolution	up to 500 MHz/s
Power	Used Both AC and DC, Portable Battery Pack for 24 Hours
Adjacent channel suppression ≥10 kHz	70 dB (FFM), 60 dB (SCAN)
Modes of demodulation Dynamic range (incl. AGC)	CW, AM, FM, SSB, LSB, USB
Dynamic range (incl. AGC)	> 120 dB
Linearity Second-order intercept (SOI) Third-order intercept (TOI)	≥70 dBm, typ. 80 dBm ≥30 dBm, typ. 35 dBm
ITU-R Recommendation Compliant	SM.1053, SM.1269, SM.1370, SM.1392, SM.1537-0, SM.1537 1, SM.1598, SM.1600-0, SM.1600-2, SM.854-1, SM854-3
Map display	Offline Mode

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