PUHU™
MANPACK V/UHF DIRECTION FINDING (DF) SYSTEM
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PUHU Manpack V/UHF Direction Finding System is the right solution with its high performance to support tactical combat units in operation areas. PUHU satisfies intelligence requirements of ground troops and provides compactness, user-friendliness and portability in the meantime.

PUHU, with its highly accurate line of bearing results, signal processing capabilities and special DF algorithms, exceeds what is expected from DF systems with similar size and compactness. Featuring wide-spectrum scanning; PUHU detects, locates and monitors signals of interest in V/UHF frequency band. PUHU is designed for intercept, geolocation, exploitation of tactical communications in V/UHF frequency band, including modern waveforms. PUHU integrates with and supports existing EW and Command & Control systems. It can be assigned joint or individual operation of several DF systems.

PUHU can be carried by two people and set-up/torn down with in a short time. A ruggedised laptop allows the operator to view DF plot, waterfall or spectral displays. By combining the Line-of-Bearing (LOB) results, it can locate the target on a digital map.

PUHU provides the user with most reliable COMINT DF capability according to user’s varying operational and tactical requirements on the battlefield in both symmetrical and asymmetrical warfare zones.

General Features
- Lightweight man-pack design, carried by two people,
- Wide Frequency coverage,
- 360° azimuth coverage,
- Toughbook based user friendly interface,
- Low power consumption; high-capacity Li-Ion battery powered operation for up to 15 hours (with a spare battery set),
- AC charger/adapter,
- DDR based Demodulation capability for AM/FM/SSB/CW/D-STAR/DMR signals (2 Channels),
- Narrow Band Decoder & Signal Analysis Software for Digitally Modulated Signals,
- Channel scan, threat list, frequency lock-out features,
- Location fixing on a digital map display,
- Networking via wired/wireless communication links.

Technical Specifications
- V/UHF frequency band coverage
- High DF Accuracy (clear site) : 3° RMS or better
- DF Bandwidth : 40 MHz
- DF Scan Rate : 2.5 GHz/sec
- FHSS Detection/DF Ability : 500 hops/sec
- Shortest Detectable Signal : 10 msec
- Num. of Digital Drop Receivers : 2
- Audio Rec.Capacity (2 channels) : 150 hours
- Power Consumption : < 75 W
- Total weight : < 40 kg
- Environmental Conditions : MIL-STD-810G
- EMI/EMC : MIL-STD-461E
- Operating Temp. Range : -30/+50°C
- Storage Temp. Range : -40/+60°C

Options
- Antenna System Mast (up to 6.5 meters)
- Charging Adapter for Solar Panel
- Remote control with extended cables or via radio channels and wireless communication
- Uninterruptible Power Supply

(1) Performance is optimized to the amateur radio, cellular and satellite radio bands.
(2) At 25 kHz frequency resolution and 5% spectrum density.
(3) Each back pack less than 20 kg.
(4) Includes back-pack carrying harness, a set of spare batteries and wireless communication equipment.
(5) Custom solutions can be proposed according to the environmental condition requirements of the user.