

# A Mobile Turnkey EW/SIGINT SOLUTION HUGIN 304DF

HUGIN 304DF is Novator Solutions newest tactical turnkey EW/SIGINT solution with monitoring, recording and direction finding capabilities. It provides 64 channels enabling simultaneous monitoring and recording of analog clear voice Push to Talk (PTT) communication using FM, AM or SSB modulation.

## Highlights

- Simultaneous Monitoring and Recording of 64 channels
- Automatic Direction Finder
- Intuitive Command and Control Software
- 4 individual tuners with 80 MHz instantaneous bandwidth each
- Frequency range between 20- 520 MHz
- Compact & rugged design for mobile applications



## Unmatched Channel Count

The congested spectrum requires tactical EW/SIGINT systems to manage simultaneous collection of many channels in parallel. HUGIN 304DF enables operators to monitor and record up to 60 clear voice interceptions and 4 digital signals simultaneously.



## Intuitive Control and Command Software

The intuitive C2 software allows operators to focus on the mission. Operators manage the spectrum and assign the digital drop receivers (DDR) via a single laptop screen. All recorded voice channels can be played back in near real-time.

## Automatic Direction Finder

HUGIN 304DF automatically calculates & records line of bearings (LOB) of all assigned channels. The LOBs are, together with the position of the collection asset, presented on a map. By moving the asset, it is possible to geo-locate target emitters.

## Mobile Turnkey System

The DC powered tactical system comes in an environmental case for easy transportation. It has been designed to be used in any car or other moving collection asset that allows temporary mounting of the collection-, DF- and GPS antennas.

# Technical Highlights HUGIN 304DF

Collection Receiver	
Number of wideband tuners	4
Instantaneous bandwidth	4 x 80 MHz
Frequency range	20 - 520 MHz (Optional up to 6 GHz)
Receiver architecture	Two-stage superheterodyne
Max. Input power	+ 10 dBm
IP3	+ 2 dBm
Residual Spurs	- 95 dBm
ADC resolution	14 bit
Spurious free dynamic range	88 dB
Number of DDRs / DDCs	64
Demodulation modes	AM, FM, SSB, IQ
Direction Finder (DF)	
Frequency range	20-520 MHz (Ground plane needed)
Bearing accuracy	1 deg. RMS (Max)
Bearing resolution	0.1 deg
Bearing integration time	45 - 400 ms
DF bandwidth	6/15/30/200 kHz
Environmental Specification, H304DF Main Unit	
Size main unit	6U environmental case
Maximum operating temperature	+ 55C (130F)
Max. Altitude.	2000 m (6500Ft.)
Power supply	12V DC (24V DC option)
Command & Control Software	
Collection receiver displays	Real-time power spectrum highlighting assigned DDRs; Situational awareness showing all interceptions
Collection receiver controls	Tuner control; Individual channel control (parametric & graphic)
Tactical orientation displays	Map showing own location and LOBs; Polar display: orientation related to vehicle direction
Direction finder control	Automatic hand-off of all assigned active transmissions
Audio	Real-time audio, triggered recording and near real-time audio replay
Mission database	Records audio IQ interceptions incl. LOBs and own GPS position

**Novator Solutions AB**, part of Novator Consulting Group, is a leading provider of products & system development within SIGINT & EW domains. Our highly skilled R&D team applies its extensive know-how in high-speed data processing and software defined radio "SDR" technology to develop next generation COMINT receivers and ELINT signal recorders. Our software expertise combined with a modular hardware architectures allows us to provide customized products and complete turn-key solutions tailored to specific project or mission requirements.

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