NAVWATCH™



100 SERIES GNSS THREAT SENSOR

DETECTION AND GEOLOCATION OF JAMMERS / SPOOFERS
AND ASSURED POSITION, NAVIGATION, AND TIMING SOURCE.

FEATURES

- Monitors L1, L2, L5 bands with Controlled Reception Pattern Antenna (CRPA) and GNSS receiver.
- Phase Interferometry offering improved Denied, Degraded, Intermittent, and Limited (DDIL) resistance.
- Precision calibrated antenna array for enhanced multi-path rejection and polarization characterization.
- Interference event snapshotting for the capture and post-processing of anomalous transmissions.
- Set detection thresholds by azimuth for Blue-Force and environmental effect rejection.
- Web UI for operators and OpenAPI REST service for machine-to-machine integration with mission systems.
- Software Defined Radio (SDR) platform for dynamic Over-the-Air (OTA) reconfiguration.
- Onboard tensor cores available (NVIDIA® Jetson) for AI-assisted tracking and analysis.

CONOPS

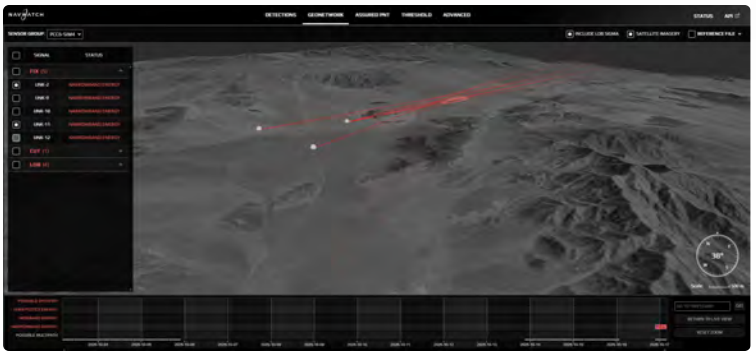
- Real-time GNSS Situational Awareness and Threat Intelligence.
- Identify Lines of Bearing (LOBs) to interference and emit Cursor on Target (CoT) messages for rapid integration into TAK systems.
- Provide Assured Position, Navigation, and Timing (APNT) over the network using standard NMEA-0183 messages.
- SCIF-ready fixed site installations with NavWatch 100R, or vehicle-mounted / expeditionary field kits with NavWatch 100P.



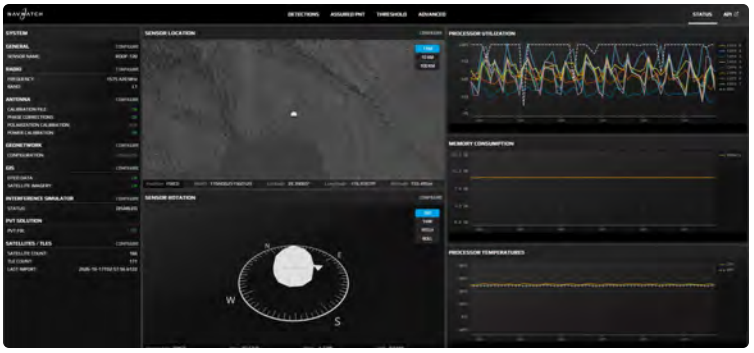
Real-time 3D signal lines of bearing with anomaly timeline.



Adaptive nulling status and protected GNSS monitoring.



3D multi-sensor GeoNetwork view shows LOBs/Cuts/Fixes.



System health and status monitoring dashboard.

SPECIFICATIONS

	100R	100P
Size (W x H X D):	Antenna: 9.625” x 7.5” x 10.125” Rack Unit (1U): 19” x 1.75” x 14.125”	9.625” x 8.5” x 10.125”
Weight:	Antenna: 3.9 lbs Rack Unit (1U): 10.3 lbs	7.4 lbs
Power:	37.5 W / 120 VAC	37.8 W PoE++
Multi Sensor Fusion:	-	IMU
Channels:	5	
Azimuth Field of View:	0 – 360°	
Elevation Field of View*: * Multiple antenna options available	100R-ANT Antenna: 0 – 90° 100R-ANT-LE (Low Elevation) Antenna: -30 – 90°	
Signal Bands:	L1 / L2 / L5	
Accuracy:	< 1° (ideal)	
Adaptive Null Degrees Of Freedom:	4	
Null Depth:	50 dB	
Technical Readiness Level (TRL):	8	
Protocols:	JSON REST, NMEA-0183 UDP Broadcast, Cursor on Target UDP Multicast	

All measurements approximated and subject to change.

For all pricing and availability inquiries, as well as demo requests, please contact the team at:

support@navwatch.us

Designed, Developed, and Assembled in the USA by a Small Business

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