

CNG-2000 Series

Wireless Network Surveillance



Automated Real-Time Surveillance on 5G NR, 4G LTE, WiFi 6/6E

- ✓ Simultaneous Passive Collection over Multiple Bands
- ✓ Supports 5G NR FR1 "Sub-6" and FR2* "mmWave" Bands
- ✓ Fully Automated Collection with Sensor Self-Configuration
- ✓ Headless Operation via Sensor Touchscreen Display
- ✓ Detects, Decodes, and Logs Protocol Information in Real-Time
- ✓ Geolocates Cellular Infrastructure in Real-Time from Air and Ground Platforms
- ✓ Supports Field Upgrades for Software and Firmware
- ✓ Fully Featured Remote Network Interface
- ✓ Open Architecture Compatible with Built-in VITA49 Data Source and Sink

* Option

Equipment Panels

Front Panel



Back Panel



Cobalt's Advanced 5G Capabilities

5G NR DSS and NSA Cell Identification • Classify hybrid 4G/5G networks	5G NR Cell Vulnerability + Trust ScoreDetect atypical and anomalous activity
Accelerated Capture for Rapid Surveys • More 5G bands surveyed in less time	Interface COTS or Precision Antennas • Supports flexible platform configurations
 High Sensitivity Cell Inspection Operate in challenging long standoff or high interference 5G environments 	Real-Time Active Connect for 5G NSA • Gather deeper network configuration information
5G Beam ProfilingIdentify cell serving beam direction with higher precision	5G NR Attack DetectionIdentify advanced and burgeoning threats (e.g., 5G beam denial, DDoS)

System Specifications

	Specifications
System	Signal List:
	■ 5G NR
	■ 4G LTE
	■ Wi-Fi 6/6E
	Future Support:
	• 2G: GSM
	3G: HSPA, HSDPA, WCDMA, CDMA2000 (EVDO), 3G+: WiMax
	Boot to Operational:
	Detect/Decode: < 1min
	Geolocation: <20 min
RF	Frequency Range:
	■ 1MHz-8GHz
	24-40GHz (with option)
	RF Channels:
	4 receiver and 4 transceiver channels
	Reference Inputs:
	 Analog GPS Input
	■ 10MHz and 1PPS Input
Mechanical,	Input Power:
Electrical,	■ 18-48V DC (120/240VAC to 28V DC converter supported)
Power	Power Consumption:
	 ~200W (typical operating conditions)
	Mechanical:
	Weight: 20 lbs (approx.) Dimensions: 211 Standard Back Mount (17" W v 10" D v 3 F" I)
	 Dimensions: 2U Standard Rack Mount (17" W x 19" D x 3.5" H) Environmental:
	RTCA DO-160G, MIL-STD 810 support if required
Data	
Output,	Data Outputs • VITA49, JSON
Interfaces	Compatible with ROVER interfaces (v4.22.1)
Interfaces	Open API supported; special formats available upon request
	Interfaces
	■ 1GbE/2.5GbE (RJ-45)
	■ USB 3.2 (Gen 1)
	■ 10GbE/25GbE/40GbE/100GbE (QSFP28)