



## SPOTTER

### Small SWaP Wireless Communications Collections Receiver

#### FEATURES

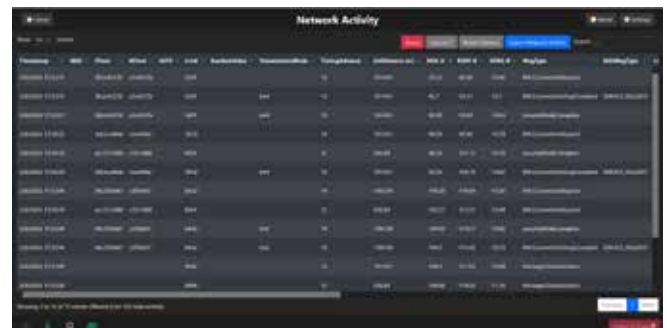
- Wireless network collection of GSM, CDMA, UMTS, and LTE (5G in 2024)
- Features 2 x 200 MHz tuners
- Frequency range of 75MHz - 6GHz
- Supports near-real-time operations and post-mission data offload
- Web-based user interface
- Automated Data Export Feature (Filesystem, FTP Server)
- Removable SSD for secure data exfiltration and sanitization

#### APPLICATIONS

- Cellular Survey
- Cellular Collection
- Automated Data Export
- Can be used locally or remotely with networking kit to connect with the SG1550 Collection Suite

#### KIT CONTENTS

- SPOTTER Receiver
- Ruggedized case
- SPOTTER Power Adaptor
- 32GB USB 3.0 Recovery Flash Drive
- Low Band RF Magnetic Mount
- Low Band RF Antenna
- High Band RF/GPS Magnetic Mount
- High Band Band RF Antenna
- Ethernet Cable
- GPS Antenna



User Interface

**DESCRIPTION**

SPOTTER is a strictly passive receiver, performing network survey, tuning to channels of interest, and collecting cellular data. The receiver houses all of the data until offloaded or retrieved by the user or by automated analytics systems. With 7TB of storage the receiver can capture millions of data records which allows for long term remote or unattended data collection. SPOTTER provides coverage from 75MHz to 6GHz with the 3 x 200MHz tuner configuration, covering multiple bands (up to 5) simultaneously throughout the spectrum.

Wireless technologies include GSM, CDMA, UMTS, and LTE (5G in 2024). SENTRY monitors and decodes Uplink (UL) and Downlink (DL) messages simultaneously, providing for soft geo-location of user equipment. One or more SPOTTER receivers can be networked together to provide more precise location measurements. G3T receivers (SENTRY/SPOTTER) are interoperable and interchangeable within the G3T Collection & Analytics ecosystem. Additionally, adding G3T's Active network Characterization tools (HYDRA/TETLEY HANDY) enables more refined UE location.

**SWaP**

**Size** 3.6" H x 7.6"W x 10" L  
**Weight** 4.7 lbs  
**Power** 90 W, Input: 10-32 VDC

**Radio Specifications**

**Tuners** 3 x 200MHz  
**Freq Range** 75 MHz - 6GHz  
**Storage** 7 TB

**BANDS**

- 2G/GSM - 850/900/1800/1900/
- 2G/CDMA - 450/850/1900
- 3G/UMTS - All commercially available UMTS bands
- 4G/LTE - All commercially available LTE bands
- 5G - All 5G NR FR1 bands (coming 2024)

**Protocol Channel Count**

- GSM** 128 DDC/ 128 Demod
- CDMA** FWD Only - 18 Channels, 18 PN's, Max of 6 PN's per Channel  
FWD/REV - 9 Channels, 18 PN's, Max of 6 PN's per Channel
- UMTS** FWD Only - 6 Channels, 9 PSC's, Max of 3 PSC's per Channel  
FWD/REV - 3 Channels, 6 PN's, Max of 3 PSC's per Channel
- LTE** FWD Only - 12 Channels, 12 PCI's, Max of 4 PCI's per Channel  
FWD/REV - 6 Channels, 8 PCI's, Max of 4 PCI's per Channel



User Interface



Front View



Back View

System specifications subject to change without notice, contact factory for current specifications.



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