



# VIRTUOSO

## Multi-Source / Multi-Protocol Tactical Situational Awareness Kit

### FEATURES

- 3G/4G/5G network metadata collection
- 2G GSM/CDMA full content collection (with POLLY TACTICAL)
- Enhances collection with Advanced Data Analytics and Machine Learning
- Human Language Technologies (HLT) recognition
- Provides force protection by creating situational awareness alerts on events of interest
- Modular SWaP (size, weight & power) packaging
- Automated Data Export Feature (Filesystem, SMB Server, FTP Server, NFS Server)
- Removable SSD for secure data exfiltration and sanitization

### KIT CONTENTS

- System Receiver (Sentry or Spotter)
- SG50x Analytics Processor: SG500 (Rugged Enclosure) or SG501 (Laptop)
- Polly Tactical A5/1 Cellular Key Solver
- Tetley Hydra with 2 x Tetley Handy Phones Included

### DESCRIPTION

The VIRTUOSO Multi-Source / Multi-Protocol Tactical Situational Awareness Kit is a modular system with a powerful collection of advanced processing components and sophisticated software that combine to comprehensively monitor 2G, 3G, 4G and 5G cellular networks as well as digital push-to-talk (dPTT) including DMR, NXDN, P-25 and D-Star. This modular system features a receiver, Non-Alerting Technique Stimulation capabilities, 2G GSM A5/1 key solving capability, as well as our industry leading tactical analysis software.

Once configured, the VIRTUOSO vigilantly monitors, processes, organizes and stores the data of the local area. VIRTUOSO contains many powerful capabilities and innovations in an easy to set up package.



## SYSTEM RECEIVERS

The VIRTUOSO System Receivers (choose between Sentry or Spotter) serves as the strictly passive receiver and is responsible for the survey and tuning of channels. The receiver houses all of the data until retrieved by the analytics. The receiver has 8TB of storage and provides coverage from 75MHz to 6GHz with up to 6 x 200MHz tuners. Wireless technologies include GSM, CDMA, UMTS, LTE, 5G NR, dPTT including DMR, NXDN, P-25 and D-Star.

	<b>Sentry</b>	<b>Spotter</b>
<b>Size:</b>	<b>5.125"x12.5"x16"</b>	<b>3.6"x7.6"x10"</b>
<b>Weight:</b>	<b>20.6 lbs.</b>	<b>4.7 lbs.</b>
<b>Power:</b>	<b>180 W, Input: 10 - 32 VDC</b>	<b>90 W, Input: 10 - 32 VDC</b>



## SG50X ANALYTICS PROCESSOR

The SG50x Analytics Processor delivers a powerful suite of analytics tools in a stand-alone laptop or ruggedized enclosure. The web-based GUI can be accessed by multiple users from any web enabled device. The SG50x can be used simultaneously with multiple receivers in real time and can ingest post mission data collection for analysis.

*\*SWaP will vary between enclosure options*



## POLLY TACTICAL A5/1 CELLULAR KEY SOLVER

The Polly Tactical is designed to be used in tandem with an SG50x Analytics Processor and SG1550 Receiver, with real-time or post-process data. Small size and low power allow the Polly Tactical to be used in any mission scenario including small team/untethered operations.

<b>Size:</b>	<b>4.3" H x 8.7" W x 13.1" L</b>
<b>Weight:</b>	<b>9 lbs.</b>
<b>Power:</b>	<b>35W idle, 60W Peak, Input: 9 - 36 VDC</b>



## TETLEY HYDRA

The Tetley Hydra is a 2G/3G/4G/5G cellular network characterization and Non-Alerting Handset Stimulation tool that can measure multiple MNO's and RAT's simultaneously.

<b>Size:</b>	<b>4.6"L x 4.4"W x 2"H</b>
<b>Weight:</b>	<b>3.1 lbs.</b>
<b>Power:</b>	<b>80W Typical, 120W Peak, Input: 9 - 36 VDC</b>



PROVIDING NEXT GENERATION WIRELESS SOLUTIONS

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