

Wideband Recording RF Sensors








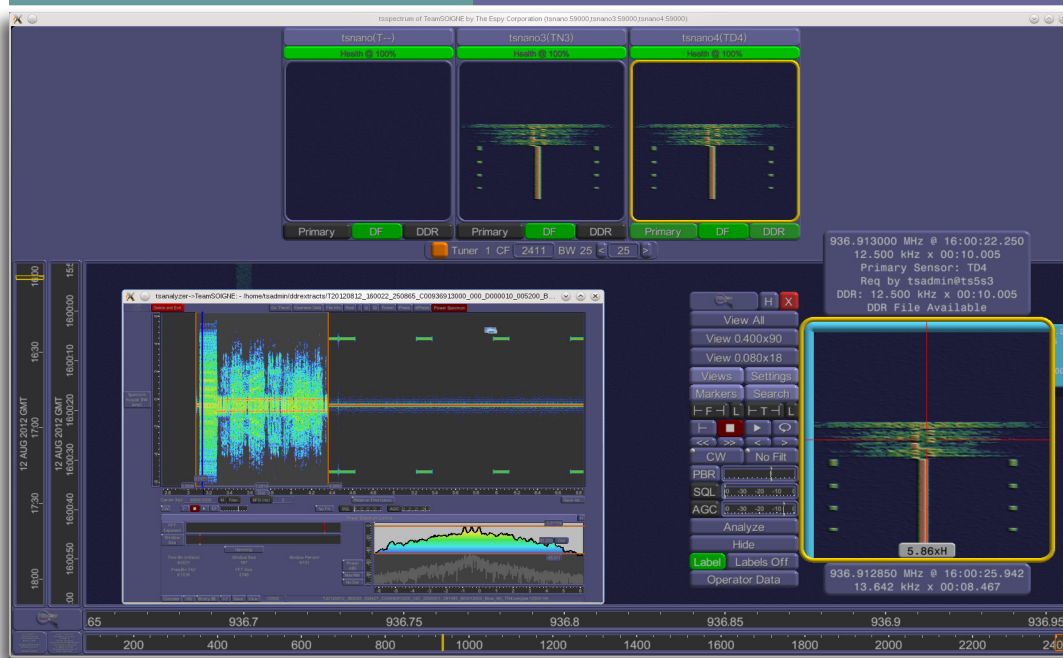
teamSENTINELmicro

Ultra-compact, man-portable and network-ready ultrawide recording V/U/SHF radio frequency sensor.

TeamSENTINELmicro™ sensors are optimized for their small size, easy transportability and extended recording capacity. TeamSENTINELmicro bridges the recording capacity vs size gap between the teamSENTINELnano™ and teamSENTINELmini™ for VHF, UHF and SHF mission requirements.

TeamSENTINELmicro requires no specialized training as it operates on the same software as the rest of the teamSENTINEL® product line. At least one teamSOIGNE® client is required. System set up takes less than 10 minutes.

-  **Highly compact V/U/SHF sensor for man-packable mission requirements**
-  **Collect and store up to 16 hours of wideband RF energy for retroactive signal processing and analysis**
-  **Verify, supplement and improve automated collection by capturing all energy transmissions within the wideband stare**
-  **Base system is tunable from 20 to 3,000 MHz with the option to tune up to 6,000 MHz**
-  **Recorded stare bandwidth 22.5 MHz and support for teamVIEW™ with other teamSENTINEL VHF/UHF/SHF sensors**

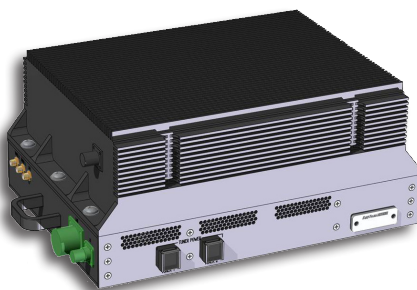


Three sensor teamVIEW depicted with two of the three SENTINELs hearing the same transmitter. Teams can be formed heterogeneously from all SENTINEL family product types (teamSENTINEL, teamSENTINELmini™, teamSENTINELmicro™ and teamSENTINELnano™).

- Collect and record 25 MSPS of V/UHF wideband spectrum while simultaneously performing signal mining and analysis from one or more teamSOIGNE workstations.
- Interactively mine the entire recorded power spectrum (22.5 MHz x 8-hours), by panning and zooming in on signals of interest.
- Use the EspyGLASS™ to examine in detail the external characteristics of signals of interest.
- Listen to energy signals of interest (SOIs) directly in TSSpectrum or in TSAnalyzer.
- Extract SOIs as DDRs (digital drop recording) for detailed analysis in TSAnalyzer.
- Manipulate DDRs by listening to, visualizing, demodulating, measuring, and converting to a variety of industry-standard file types.
- Easily and rapidly search, view and access SOI metadata results and DDR cuts from a web-based browser interface.

SYSTEM SPECIFICATIONS

Recorded Sample Rate	25 MSPS
Usable Stare Bandwidth	22.5 MHz
Minimum Sensor Spectrum Delay (SSD)	~8 hours
Typical Sensor Delay (Rotating, RAID 5) ¹	~14 hours
Maximum Sensor Delay (Rotating, RAID 0)	~16 hours
DDR Narrowband Extract Storage	~100 GB
Max DDR Extract Duration	Hours
Max DDR Extraction Sample Rate	25 MSPS
Typical SFDR (single tone)	~70 dB
Supports additional teamSOIGNE clients	Yes
Supports TeamVIEW with other SENTINELs	Yes
Base Frequency Tuning Coverage (MHz)	20 – 3,000
Optional Frequency Tuning Coverage (MHz)	20 – 6,000



PACKAGING SPECIFICATIONS

One case holds the Sensor (Client packaged separately)
Sensor Dimensions ~ 7"H x 11.25"W x 14.25"D
Weight, including case: ~40 lbs (18.14 kg)
In-line wheels
Two padlock hasps
Watertight case
Set up in 10 minutes or less
Antenna sold separately

¹ RAID 5 - Single drive failure without data loss. Hot swap HD replacement.

The Espy Corporation is a closely held S Corporation based in Austin, Texas, with offices in Florida and Maryland. Espy provides products and engineering services to clients engaged in advanced research and scientific analytic processing. TeamSENTINEL and TeamSOIGNE are registered trademarks of The Espy Corporation. All trademarks and copyrights referred to are the property of their respective owners. Information in this document is subject to change without notice and does not represent a commitment on the part of Espy. Espy assumes no responsibility for errors or omissions or for damages resulting from the information contained herein. ITEMS OR TECHNICAL DATA SUBJECT TO ITAR.

Copyright © 2013 The Espy Corporation

Corporate Headquarters

13033 Trautwein Road
Austin, Texas 78737
P: (512) 261-1016
F: (877) 570-6250
www.espy.com
sales@espy.com



The Espy Corporation
"Helping discover the way"