

# Powerful Wideband ELF-SHF Collection & Survey

Narda STS NRA-3000/-6000  
Kρυπτο500+ Kρυπτο1000



# Krypto500, Krypto1000 and the Narda STS NRA-3000/-6000 software-defined radio (SDR) offer a powerful combination of ELF-SHF SIGINT tools.



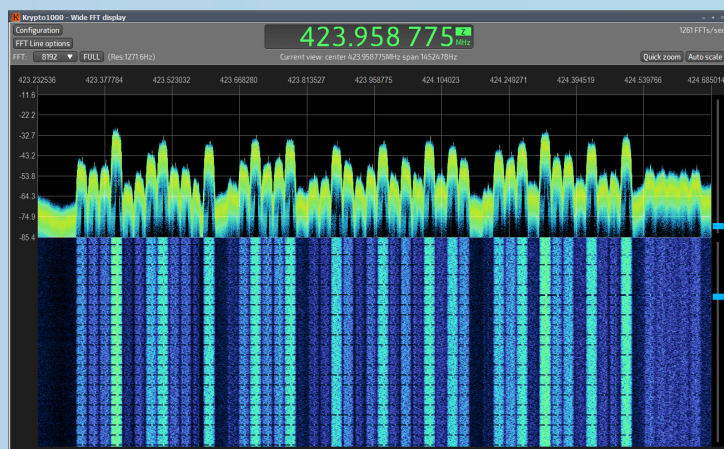
The small form factor of the NRA-3000/-6000 and low CPU and RAM footprint of Krypto500 and Krypto1000 offer myriad possibilities for employment – from fixed-site to vehicle-mount applications to traditional SIGINT platform applications (ships, submarines, aircraft, UUV, USV and UAV) using rugged Tablet and Laptop PCs.



The wide RF coverage of NRA-3000/-6000 and the extensive multi-channel SIGINT tools in Krypto500 / Krypto1000 combine to become a veritable 'SIGINT site in a box' allowing for online, real-time collection and analysis, as well as offline, post-mission analysis.

The NRA-3000/-6000 covers a super-wide 9 kHz – 3 GHz or 6 GHz, respectively and is fully-supported in both Krypto500 and Krypto1000. This means the receiver's excellent sensitivity can be put to work in prosecuting virtually the entire communications portion of the RF spectrum.

What makes Krypto and the NRA the perfect 'SIGINT site in a box' are the receiver's standard form factor of one 19" (1RU) rack unit, its very low power consumption (< 20 W) and its attractive pricing. The NRA is also mechanically-hardened for demanding applications in harsh environments. It does not require a fan or any air inlets / outlets, making it suitable for use in sandy or dusty environments. Furthermore, the NRA has been MIL-STD tested and passes shock and vibration tests without any difficulties.



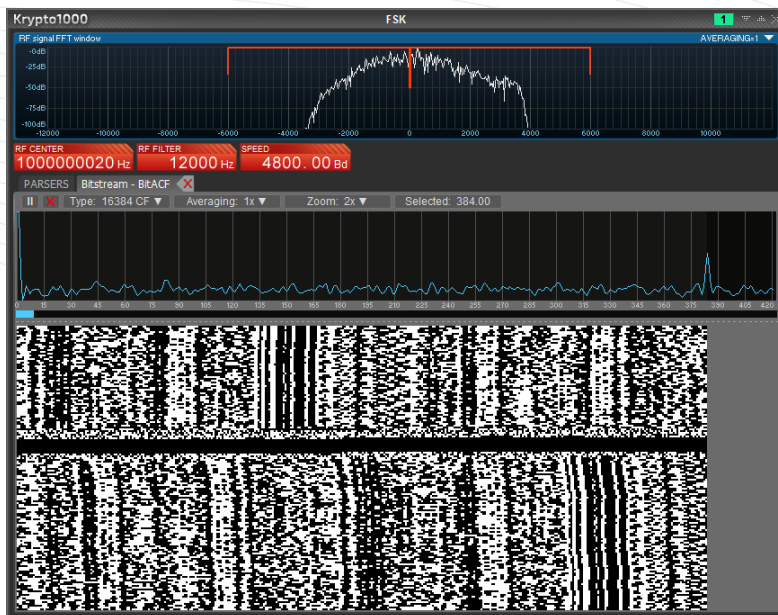
Built-in SIGINT collection tools in the Krypto500 and Krypto1000 SIGINT software suites allow for manned or unmanned collection and manual or fully-automatic scanning, decoding and fingerprinting operations. The collection toolset can drive the NRA-3000/-6000 to record based on schedule or via any of HUNDREDS of triggers using ANY combination of modem decoder or voice detector. The NRA provides a 400 kHz wide I/Q stream, sufficient for analysis and collection of several channels of most signals, particularly in the HF range.

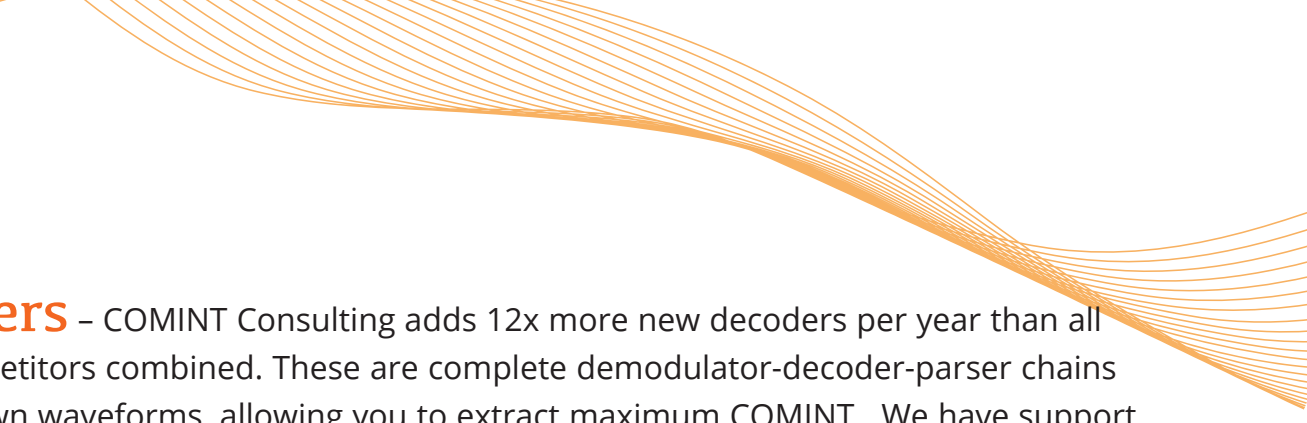
Highly-accurate Voice Activity Detection (VAD) for SSB voice is a standard tool as are modules that allow targeted scanning and manual or automatic collection of known or unknown frequencies of interest. This can be used for either live monitoring or completely-automated collection.

A few of the many ways we can help you produce more critical intelligence are briefly outlined below:

**Calling Systems** – Understanding the topography of an HF network is critical and it all begins with understanding who called whom. Krypto500 has an unequalled selection of current, complete and relevant calling system decoders for Selective Calling (Selcal), 1st, 2nd and 3rd Generation ALE (Automatic Link Establishment), ALIS (Automatic Link Setup), ALM (Automatic Link Management), ACS (Automatic Communications System) and numerous other proprietary calling system solutions – some 80+ in total, some 70 more than our closest competitor!

**Session Files** – Built with the SIGINT / COMINT professional in mind, it is natural that we allow one-click saving and 2-click operation of complex missions. Simply save your workspace as a session files and all modules, settings and control settings can be re-opened and the mission immediately placed in operation by opening the appropriate session file.





**Decoders** – COMINT Consulting adds 12x more new decoders per year than all of its competitors combined. These are complete demodulator-decoder-parser chains for all known waveforms, allowing you to extract maximum COMINT. We have support for hundred of variants of DMR, dPMR (PMR446), TMR, LMR, PMR and other Telemetry modems, with more solutions added continuously

**Many Channels / Large Networks** – Krypto500 and Krypto1000 have extensive real-time, multiple threading capacities which can be greatly expanded through the use of multiple desktops and multiple instances, allowing many hundreds of channels to be exploited. See our white paper on multi-channel processing. To run up to at least 10 instances of Krypto500 with 32 modules (of any type – analysis, classification, decoding, fingerprinting, etc) at once you need only one license of Krypto500 and a PC that meets our minimum requirements. Yes, as many as 320 channels of decoding could be running on one PC with one license of Krypto500. With Krypto1000 there are no limits to the number of channels you can process nor the widths you can display in full HD quality.

Please contact COMINT Consulting Customer Service if you would like to receive HD videos of the above in action.

Kindly refer to [www.narda-sts.com/en/spectrum-analysis-and-receiver/](http://www.narda-sts.com/en/spectrum-analysis-and-receiver/) and [www.comintconsulting.com](http://www.comintconsulting.com) for the latest technical information, data sheets and related application notes.



Krypto500 and Krypto1000 is controlled by the US International Traffic in Arms Regulations (ITAR) 22 CFR §120-130. It may not be exported or transferred to any other foreign person, foreign country or foreign entity without prior written approval from the U.S. Department of State and COMINT Consulting LLC.

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[info@comintconsulting.com](mailto:info@comintconsulting.com)