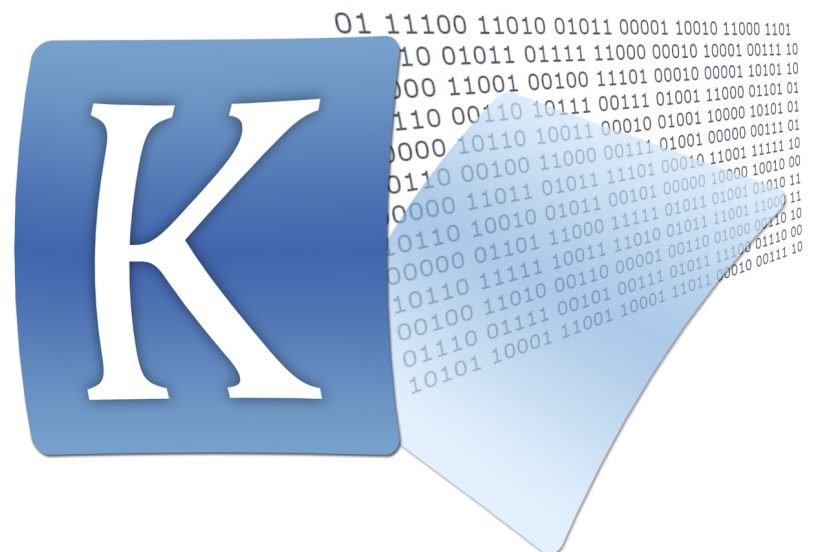


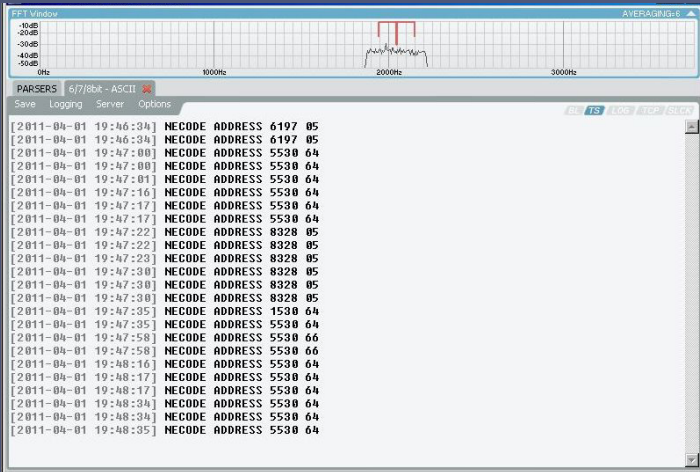
# Κρυπτο500

## Collection, Analysis, Classification and Decoding

For narrowband ELF-SHF communications modems up to 48 kHz in bandwidth



# “ROBUST COLLECTION OF SIGNAL DEMODULATORS AND DECODERS”

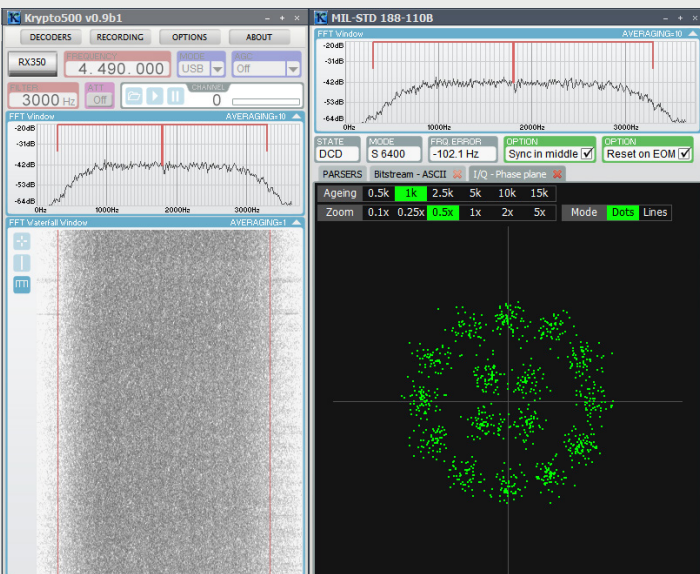


Necode 322ARX Selcall Decoder

Krypto500 is for Narrowband (NB) signals up to 48 kHz in bandwidth principally found between ELF-SHF. It enables even inexperienced signals analysts to quickly and accurately interpret information about a signal of interest.

No other software on the market offers as comprehensive a selection of demodulation, decoding, parsing tools and receiver control for several hundred signals and integrates those seamlessly with so many wideband, narrowband and other collection systems.

Its companion suite, Krypto1000 is for wideband signals 48 kHz and wider, principally found from VHF-SHF.



Mil-Std 188-110B 16QAM constellation display

## POWERFUL USER INTERFACE

Krypto500 offers an intuitive and powerful user interface and embedded intelligence to assist operators and analysts with proper collection, tuning and decoding of more than 60 short-duration calling and link-establishment protocols (ALE, ALIS, ALM and many more).

## COMPLETE SPECTRUM ANALYZER

Numerous detailed, high-resolution displays with full tools-markers, measurement, averaging, peak hold and more.

# MAIN FEATURES

- » SUPERB DEMODULATION, DECODING AND PARSING OF ELF-SHF MODES
- » NO PROPRIETARY HARDWARE NEEDED
- » WORKS WITH WINDOWS
- » AUTOMATIC CLASSIFICATION OF NEARLY 4000 FSK & PSK MODEMS AND USERS
- » UNMATCHED DECODER PERFORMANCE IN WEAK/POOR CONDITIONS
- » THE MOST COMPREHENSIVE COLLECTION OF CURRENT, ON-AIR MODES (NO DEFUNCT MODES!)
- » WIDEBAND/NARROWBAND COLLECTION SYSTEMS INTERFACE
- » NUMEROUS PARSERS ALWAYS AVAILABLE - RUN MULTIPLE PER DECODER
- » OFFLINE OR ONLINE ANALYSIS
- » RUN MULTIPLE DECODERS SIMULTANEOUSLY
- » FLEXIBLE VARIETY OF OUTPUTS TO SUPPORT CRYPTANALYSIS
- » HIGH-SPEED CONSTELLATION DISPLAY
- » SUPPORT FOR HUNDREDS OF RECEIVERS, SDRs, DIGITIZERS AND DF SYSTEMS

## INCLUDED STANDARD TOOLS

The following tools are NOT OPTIONS, nor are special features you should pay for. These are standard features which are included with every license.

- » Multiple recording options - manual or unattended
- » Scheduled or timed recording
- » Triggered recording and decoding (by mode)
- » Voice Activity Detection (VAD) automatic and triggered recording.
- » Complete Spectrum Analyzer

# “no other decoder on the market offers as comprehensive selection of demodulation, decoding and parsing tools”

## ALWAYS CURRENT

COMINT Consulting offers hundreds of decoders for current, on-air modes ranging from ELF to SHF, terrestrial, air, naval and satellite modes - we decode them all! New decoders are continuously in progress and we may be contracted for custom DSP work, to include development of decoders for your specific mode requirements.

## NO PROPRIETARY PLATFORM

The decoders may be used with any of the following HF, VHF or UHF wideband and narrowband /multichannel collection systems:

- » R&S AMMOS
- » DRS-SS NITEHAWK
- » L-3 LOOKING GLASS
- » AGILENT BLACKBIRD
- » ARGON ST LIGHTHOUSE
- » ESPY SENTINEL
- » AND MANY MORE...

## EMBEDDED SIGNALS

Krypto500 has the ability to decode and demodulate a

wide variety of signals:

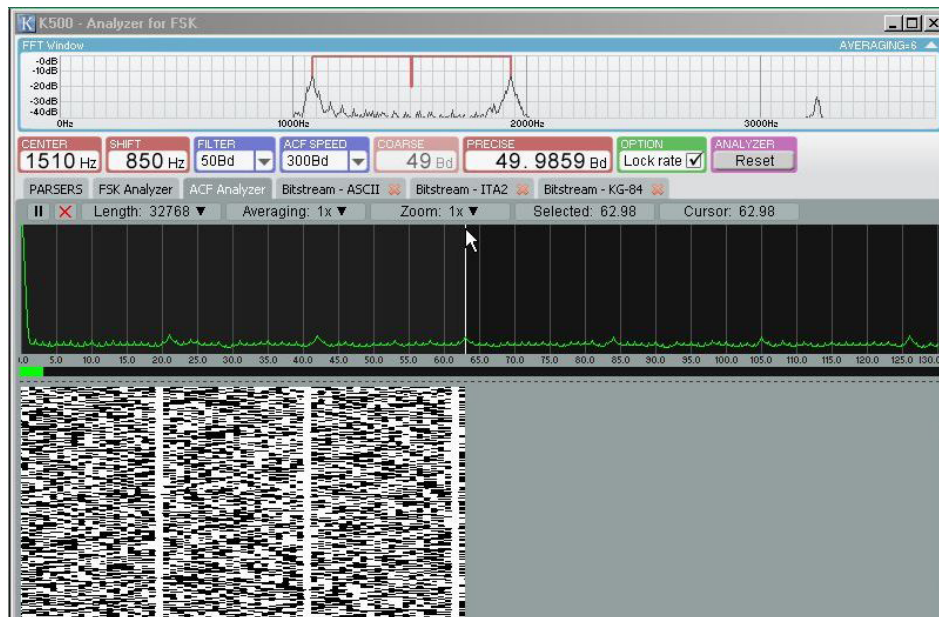
- » SELCALL-ALE-ALM-ALIS MODES
- » LF-MF-HF MODEMS + TELEPRINTERS
- » VHF-UHF MODEMS
- » SATELLITE MODEMS
- » PARSERS

## THREE OPTIONS

Our decoders are available in three ways for YOUR mission flexibility:

- » INTEGRATED IN THE KRYPTO500 SIGINT SOFTWARE SUITE
- » INDIVIDUALLY AS STAND-ALONE MODULES (LIBRARIES)
- » IN PACKAGES OF SEVERAL MODES OR MODULATIONS TAILORED TO YOUR NEEDS

Each decode module (library) contains optimized filters, high-performance routines to improve weak-signal performance, and automatic adjustment for minor operator or system tuning errors and advanced routines to achieve decode in the poorest of signal conditions.



## INPUTS

- » Baseband Audio
- » Numerous file formats (.WAV, RF64, QVRT, etc)
- » I&Q (numerous formats)
- » Custom inputs on request
- » DoD RedHawk SDR support
- » VITA-49 I&Q input

## OUTPUTS

- » Decoded Text to Screen
- » Decoded Text to ASCII file
- » Demodulate bitstream to screen
- » Demodulated bitstream to ASCII file
- » Demodulated bitstream to hexadecimal
- » VITA 49
- » MidasBlue (XMidas)



## DECODERS LIST

Krypto500 offers decoders for current, on-air modes ranging from ELF to SHF, terrestrial, air, naval and satellite modes. New modes are added on a monthly basis. For the complete list of modes visit [COMINTconsulting.com/modes](http://COMINTconsulting.com/modes).

## SUPPORTED RECEIVERS

Krypto500 controls hundreds of professional HF-UHF receivers and DF systems. For the complete list visit [COMINTconsulting.com/systems](http://COMINTconsulting.com/systems).

## SYSTEM REQUIREMENTS

For the best performance, we recommend the following minimum system configuration:

- » INTEL PENTIUM III @ 1 GHZ OR BETTER
- » 128 MB RAM OR MORE
- » STANDARD SOUND CARD (RECOGNIZED BY THE OS)
- » MICROSOFT WINDOWS 2000, XP, VISTA, 7, 8 OR 8.1, 10
- » VIRTUAL MACHINES SUPPORTED: VMWare, VIRTUALBox, VirtualPC, VAGRANT AND HyperV

## AND MORE....

You can find an array of information on our website - demonstration videos, white papers and data sheets. Visit [COMINTconsulting.com/resources](http://COMINTconsulting.com/resources).

## HAVE A QUESTION?



We are here to help. And the best thing of all - we will give you an honest and responsible answer to your questions. Contact us today at [info@comintconsulting.com](mailto:info@comintconsulting.com)!

Krypto500 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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