

PRESS RELEASE

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Radio monitoring system CRS-8000 for maritime use

MEDAV offers its CRS-8000 system for the use in submarines and surface boats for radio monitoring including direction-finding in the **HF- and V/UHF-range**. The system is simultaneously suitable for the tasks of innovative radio monitoring as well as for the support the tactical guiding of the boat. Given below is a brief description of some of the system features.

In the **tactical COMMS/ESM-mode**, CRS-8000 offers the functions for automated wideband signal recording and analysis of transmissions. The results are visualized as spectra or in polar display ("radar screen") as shown in Figure 1, the individual results are shown in lists. From this, the operator selects the senders and can follow-up these, if needed, by means of a tracking system. Especially helpful is the checking of specified, combinable alarm conditions, which can be evaluated automatically.

For the **COMINT-mode** it is to be highlighted that a wideband recording can be done interactively as well as automatically. Thereby, special frequency ranges can be blocked by means of black-lists, and through white-lists focus can be shifted on to special senders. Numerous functions support the automatic or manual analysis of the transmission methods and signals. These include especially segmentation, classification, demodulation, decoding and recording. For visualizing the information typically spectrum, sonogram, polar display, clear text etc. are used, and it is also possible to listen to the signals.

CRS-8000 is not a usual COMINT-system in its realization. It is rather a **unique system** characterized by many details, such as:

- ▶ the HF-V/UHF-Intercept- and direction-finding antennae. The design in very compact construction was done by Saab Avitronics, South Africa. MEDAV played a part in the Specification and Calibration. The antenna is integrated in a Radome, installed on a wheel-away mast, installed in a way that it does not get immersed. The intercept and direction finding results satisfy the highest requirements.

- ▶ The entire recording and analysis technology is integrated in a single control panel. The different modules are connected with one another via a gigabit-network. Up to two distributed multi-function operating consoles, which are available for different tasks, are operated simultaneously. Depending upon the application very high requirements are placed for the environmental conditions (noise development, cooling) and system performance, which are also fulfilled.
- ▶ The following are differentiated regarding the operating modes: Search, Monitoring, Analysis and Supervisor. Thereby, it must be taken into account that all operative tasks are executed message-oriented and reported to the superior COMBAT-Management System.

No further realization is known, which, comparable to **CRS-8000**, contains a complete and compact solution for antennas and signal recording including direction-finding in the HF- and VUHF-ranges, automatic and interactive analysis, demodulation, decoding, etc. including support for the tactical guiding and at the same time satisfies the high environmental regulations for submarines.

CRS-8000 can also be used for applications in surface ships (Marine, Coast Guard, Police) and in land vehicles.

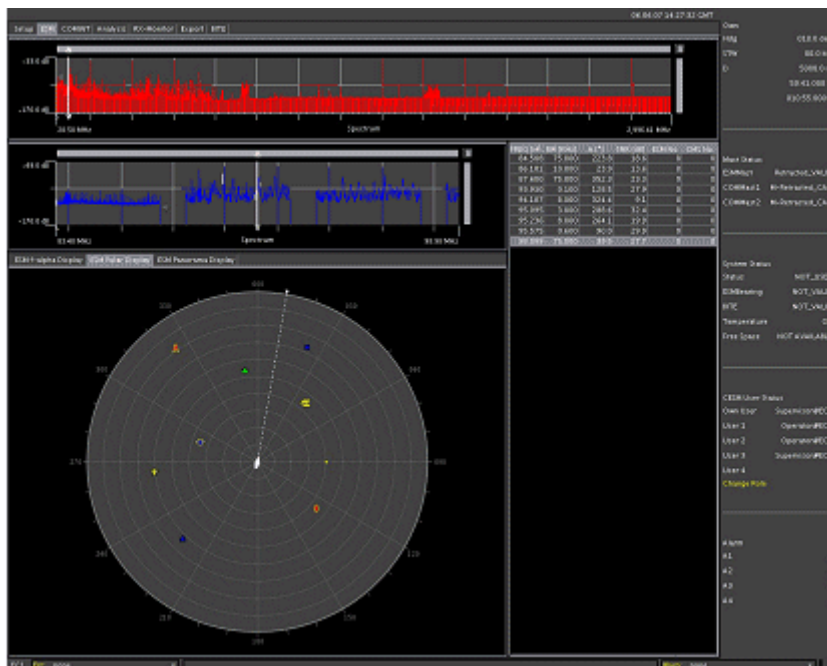


Figure 1: Display of Spectra and polar display in the ESM-operating mode.



About MEDAV GmbH

MEDAV GmbH is a successful, medium sized company specialised in the application of signal processing, pattern recognition and information technology in different markets. Located at Uttenreuth and Ilmenau we supply the whole range, from a single stand-alone product to a complete system solution from single source. We guarantee our customers innovative product solutions of high quality. Our goals are continuing success and customer satisfaction. By working together in trusted, long-term relationships with our business partners we achieve the positive growth we seek. Today, we design, develop, produce and implement solutions and engineering worldwide:

- RMS - Radio Monitoring and Surveillance:
Products and systems for radio monitoring and surveillance
- BIS - Business and Intelligence Solutions:
Applications for business and intelligence
- IAS - Industrial and Automotive Solutions:
Measurement and testing in industrial and automotive applications
- CSS - Channel Sounding Solutions:
Products and systems for the field of channel sounding
- ERD - Engineering, Research and Development:
Development and services

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