

*Press release*

*For immediate publication*

## **Narda's SignalShark with new functions for broadband mobile signal monitoring and real time analysis**

**Pfullingen, 22<sup>th</sup> March 2022** – Narda Safety Test Solutions has extended the spectrum of applications for its SignalShark with functions for broadband mobile signal monitoring and real time analysis. The precursor to this development was the decision made by the RF measurement technology specialist to collaborate with PROCITEC, the industry leader for software-based signal processing. The aim of this wholly German technology partnership was to create a perfect mobile monitoring and real time analysis system for land, sea, and air-based wireless communication systems.

Mission accomplished. The unique combination of the SignalShark, Narda's robust yet highly sensitive real time receiver, and the integrated go2MONITOR software defines the current state of the art in mobile automatic radio signal monitoring and evaluation units. Already they meet the highest demands of the future across various industries.

### **The best of two worlds in one**

This cooperation has provided the powerful SignalShark with access to all of the state of the art signal analysis tools of one of the international leaders in signal processing software development, facilitated by its open platform concept. This highly effective universal monitoring tool combines the best of two worlds. Thus equipped, the SignalShark day by day reliably masters the many complex challenges faced by regulatory authorities and mobile network operators as well as emergency services such as the police and border forces, and last not least, the military.

The SignalShark, which can perform fully automatic ITU compliant measurements on radio signals of up to 8 GHz, can also completely capture the broadband signals of entire services thanks to its real time bandwidth of 40 MHz. These signals are then transmitted as VITA49-compatible IQ streams either to an external PC or internally via local host to the PROCITEC application on the receiver, depending on whether it is used in a stationary or a mobile situation. The go2MONITOR software is installed on both the external computer and the SignalShark. In both cases, the signals can be classified, demodulated, decoded, and recorded for later analysis reliably and securely in real time.

### **Broadband capture and itemization of radio signals**

The usual measurement practice is continuous broadband monitoring and complete capture of the signals for all the services within a frequency band. Depending on the assignment, these may include TETRA, TETRAPOL or APCO25 in addition to mobile communications services. At the same time, the analysis software automatically determines more detailed information using parameters such as modem, bandwidth, and symbol rate, and displays this clearly on the screen of the SignalShark or the external PC. The necessary decoders can be embedded by means of licenses for various decoder packages, so that users can ultimately decode every signal without any problems.

### **Perfect monitoring units**

Portable, light, compact, and robust. The particular attributes of the different models in the SignalShark family offer advantages when setting up mobile, flexible, and full coverage monitoring units. All three types – handheld, rack-mounted remote unit, and outdoor unit – have the same good DNA and have the same excellent RF characteristics such as sensitivity, real time bandwidth, performance, and dynamic range. They deliver reliable, stable results at all times and without limitations – cue: scalability – whether in mobile field use, in the laboratory, or in long term outdoor applications under extreme environmental conditions.

This huge advantage, which is readily utilized in large scale monitoring tasks by the military or border forces, for example, is based on the standard interface. This means that regardless of any environmental or situational conditions, users can achieve perfect monitoring systems with the aid of the SignalShark and an external PC that always deliver consistent results in the same format wherever they are.

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This text and press images can also be found at  
[www.narda-sts.com/en](http://www.narda-sts.com/en) under the heading: Company > Press



**Image 1: The unique combination of the SignalShark, Narda's robust yet highly sensitive real time receiver, and go2MONITOR software defines the current state of the art in mobile automatic radio signal monitoring and evaluation units for land, sea, or air.**



**Image 2: From left: SignalShark rack-mounted remote unit, handheld unit, and outdoor unit. Compact and portable, light and robust. The SignalShark trio for building perfect, complete and effective networks for broadband mobile signal monitoring and real time analysis.**

**Narda** is a leading supplier of measuring equipment for RF Test & Measurement, EMF Safety, and EMC. The RF Test & Measurement range includes analyzers and devices for the measurement and identification of RF sources. The EMF Safety product spectrum covers broadband and frequency-selective measuring devices, and EMF monitors for wide area coverage as well as personal safety monitors that can be worn on the body. The EMC sector offers instruments for determining the electromagnetic compatibility of devices under the PMM brand name. The range of services provided includes servicing, calibration, and training programs. The company operates a management system that complies with ISO 9001:2015 and maintains a calibration laboratory that has DIN EN ISO/IEC 17025:2018 accreditation.

Narda has development and production facilities in Pfullingen / Germany and Cisano / Italy, and has its own representative in Beijing / China. A worldwide network of representatives guarantees closeness to customers.

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**For more information, contact:**

**Texterei Jungmann**  
[Press contact]  
Thomas Jungmann  
Bahnhofstr. 42  
D-88239 Wangen im Allgäu  
Tel.: +49 7522 9899 850  
E-Mail: [info@texterei-jungmann.de](mailto:info@texterei-jungmann.de)  
<http://texterei-jungmann.de>

**Narda Safety Test Solutions GmbH**  
Sandwiesenstr. 7  
D-72793 Pfullingen  
Tel.: +49 7121 97 32 0  
Fax: +49 7121 97 32 790  
E-Mail: [info@narda-sts.com](mailto:info@narda-sts.com)  
[www.narda-sts.com](http://www.narda-sts.com)