

Interference and Direction Analyzer IDA-3106 now also localizes pulsed signals

Spectrogram display visualizes variations with time

Pfullingen, August 15, 2012 – Narda Safety Test Solutions has equipped the Interference and Direction Analyzer IDA-3106 with additional functions that allow even faster and more reliable localization of interference and unknown signal sources. It is now possible to localize pulsed or sporadic signals using a horizontal scan for direction finding – a feature that is a world first in a hand-held device. The spectrogram display shows the variation of the spectrum with time. Deviations from a reference trace can be seen at a glance using the delta spectrum display.

The IDA-3106 now offers a special Max Hold algorithm for localizing unknown sources with a horizontal scan. This allows the instrument to also produce a polar diagram from pulsed and cyclic or sporadic signals and to determine the direction of signals that have hitherto been difficult to localize, such as radar installations or intermittently used walkie-talkies.

The IDA-3106 records up to 400 compressed individual spectra for the spectrogram display and shows the signal strength in color. This visualizes the variations in the spectrum with time, which can give information about the type of signal, so that industrial control equipment with cyclical signals, mobile communications services using frequency hopping, stationary transmitters, and sporadic emitters can all be distinguished from each other.

A new feature is the ability to save spectra as reference traces and display the current spectrum as a difference or delta spectrum. In this way, deviations from the normal status, such as new sources in the communications band or an unusual state in an industrial plant, can be seen immediately.

The instrument display is designed for outdoor use and can now be switched for optimum visibility in daylight, normal lighting, or darkness.

Facts about the IDA-3106

The Interference and Direction Analyzer IDA-3106 was developed for identifying and localizing electromagnetic signal sources. Its applications include the areas of communications and security. In communications, the task is to find and eliminate spurious interference from whatever source. For security, the device can be used to locate unknown sources and identify potential dangers. The IDA can automatically determine the direction of the source based on a horizontal scan, and display the bearing angle on a polar diagram. The IDA then automatically calculates and displays the position of the interfering source from several bearing results. Freely available electronic maps can be recorded optionally, so that the source can be precisely pinpointed on a street plan, just like a navigation system. Determination of the position of an interference source is based on a GPS receiver in the measuring instrument and the electronic compass in the antenna handle for determining the direction, elevation, and polarization. Optimized antennas which can be inserted vertically or horizontally in the ergonomically formed handgrip are available for different frequency ranges.

As a hand held device for on-site use, the IDA-3106 basic unit weighs less than 3 kg including battery. The antenna and handle draw their power supply from the basic unit and thus weigh less than 1 kg. The rechargeable battery can be hot-swapped without interrupting operation.

This text along with a press photo is also available from:
www.narda-ida.com > Press

Narda Test Solutions is a leading supplier of measuring equipment in the RF safety, EMC and RF testing sectors. The RF safety product spectrum includes wideband and frequency-selective measuring devices, and monitors for wide area coverage or which can be worn on the body for personal safety. Under the PMM brand, Narda offers instruments for determining the electromagnetic compatibility (EMC) of devices. The RF testing sector covers analyzers and instruments for measuring and identifying radio sources. The range of services includes servicing, calibration, and training programs. The company operates a management system complying with ISO 9001/2008 and ISO/IEC 17025.

Narda Safety Test Solutions has development and production facilities at three locations: Hauppauge, Long Island / USA, Pfullingen / Germany and Cisano / Italy and has its own representative in Beijing / China. A worldwide network of representatives guarantees closeness to customers.

Narda Safety Test Solutions is part of **L-3 Communications**, New York.

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