

Alster News

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Bird® Spectrum Analyzer

The SH-60S-AOA extends the capability of the SH-60S-TC by adding the ability to triangulate the location of an interferer on a map for signals between 9 kHz and 6 GHz. Highly portable, the SH-60S-AOA easily fits in one hand and boasts an intuitive touchscreen user interface.

Leveraging mapping technology from OpenStreetMap, users can triangulate the source of an interferer by measuring power levels. In addition, the

multi-touch technology, users will find a high-resolution full-color touchscreen with familiar, easy to use, methods for setting up and using the RF spectrum analyzer.

With more than 2x faster sweep times than the competition, the SignalHawk also includes a two-level internal preamplifier. You may view the spectrum with trace display, spectrogram display, or both. Also included is the Bird RF Meter App that allows interopera-

bility with a wide range of Bird Field sensors.

The SignalHawk is the lightest, all-in-one analyzer at only 1.98 lb., with a battery offering 4 hours of continuous operation.

Field engineers, technicians, wireless equipment manufacturers, service providers, contractors, tower erectors and military personnel alike have come to trust the precision results and efficiency of the SignalHawk™. Ω



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CODAN RADIO COMMUNICATIONS **Transportable Repeaters**

Codan/Daniels manufactures a wide range of transportable repeaters providing portable communication solutions that are self-contained, can be deployed in minutes extending radio coverage and ensuring communication lines remain open at all times.

Our transportable repeaters provide the most reliable and versatile solution for emergency radio communications, police radio systems and fire department radio systems.

Our transportable repeaters consist of a standard LMR radio repeater specially packaged in a briefcase for portability with all the accessories required to

instantly create a local repeater site. Capable of interfacing to first responders' handsets and mobiles, it creates a relay between first responder units and opens communications lines back to existing infrastructure, receivers and base stations.

Multiple Bands

Transportable repeaters are available for VHF, UHF and 700/800 MHz operation in either analog or digital P25 modes. They can also support cross banding to enable different agencies to communicate together.

These include the Stratus Lite - Repeater with upgrade path to full Stratus.

Stratus Network -

P25/LTE hybrid solution.

HiveNet Tactical - Wide area radio coverage.

Vizor/ET6 - portable rapid deployment.

Vizor/Interop - pre-programmed frequencies.

ET1 Transportable - 19" large system case.

ET3 Aluminum Case - 19" USFS favorite repeater.

ET4 Briefcase - battery, duplexer repeater and link.

ET5 Tactical - lightweight, D cell operated repeater.

Contact us today for more information.

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OTTO - NoizeBarrier™ Earplugs

OTTO's NoizeBarrier™ High Definition Electronic Earplugs offer unsurpassed situational awareness and clear communication while also providing hearing protection from loud noises. The dual-mode NoizeBarrier earplugs offer active hearing protection as well as hearing enhancement for extremely effective sound localization and detection.

The noise-isolating eartips

combined with proprietary sound processing electronics produces an earplug that responds to your environment. The earplugs provide normal situational awareness when sound levels are safe, a higher level of protection (up to 15 dB) when there is sustained loud noise, and maximum protection (up to 40 dB) from loud impulse noises. With a simple press on the touch

pad, the enhanced hearing mode provides 5X amplification of soft sounds, while maintaining the impulse noise protection. NoizeBarrier earplugs can be worn all day without the need to remove them to hear.

The earplugs have up to 16 hours of battery life and come with a rugged, waterproof case for earplug storage and charging. Ω



OTTO's NoizeBarrier™ High Definition Electronic Earplugs

Viavi - 8800SX Service Monitor

Your testing possibilities are endless with the Viavi Aeroflex 8800SX Radio Test Set. With P25 Phase 1 and Phase 2, NXDN, dPMR and DMR test capabilities, coverage mapping software, a comprehensive library of automated test and alignment suites for today's P25

radios, antenna VSWR and Return Loss measurements, RF Cable Distance-to-Fault measurement, .

The 8800SX combines the performance and features of a bench-level test set with the portability and ruggedness of a field-level instrument. Weighing only

17 lbs. (7.71 kg), an internal battery with 2.5+ hour of operation, and rugged 30 G shock rating, now test professionals will no longer compromise portability for critical test features. **The 500 Watt internal Thru Line Power Meter is now standard!** Ω



Viavi 8800SX Service Monitor

Times - Advantage-X Connectors

Times Microwave has been increasing the list of LMR ADVANTAGE-X connectors, which are your best choice for LMR applications.

Advantage-X connectors offer easy termination by using the standard CST Prep Tools. This means there is no braid trim required. Cable ends are prepared consistently and easily, speeding up the installation process and time

by at least half.

Advantage-X connectors are available non-solder EZ type and center pin solder type.

The combo hex/knurled coupling nut speeds installation and the tri-metal plating eliminates tarnishing.

Advantage-X connectors provide lower insertion loss for high quality installation and improved performance.

These connectors are

available for LMR-400 in N-male, solder or non-solder, right angle, N-female, TNC male, 7/16 DIN male and 7/16 DIN right angle.

For LMR-600, they are available in N-male, solder or non-solder, right angle, N-female, TNC male, 7/16 DIN male and 7/16 DIN right angle.

They are available through our distribution partners. Ω



Times Microwave Advantage-X Connectors



STI - Field Test 7 Software

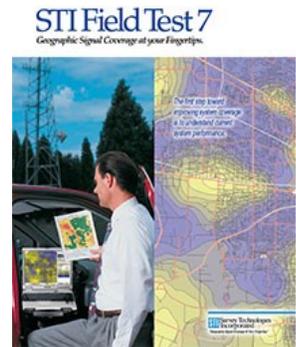
STI Field Test 7 is automated signal measurement and analysis software that can be interfaced with most signal measurement instruments or RF receivers. STI Field Test 7 includes a GPS receiver, street map data for the entire United States of America and Canada with major highways worldwide, an RF instrument interface/driver, manual and one year warranty, allowing you to

integrate your laptop PC and digital radio test set or spectrum analyzer to create a coverage verification system that meets your requirements.

The versatile STI Field Test 7 interface software allows for connection to the proprietary or application-specific receiver of your choice. The types of signal measurements taken are limited only by the capabilities

of the RF measurement instrument used. This unique feature ensures a long and useful life for your STI system.

From digital BER, to analog SINAD, and signal strength to modulation fidelity, STI Field Test 7 is the automated field measurement and analysis package to measure mobile communication system coverage and performance. Contact us for more information. Ω



**Survey Technologies
Coverage Verification**

Power Products - Smart Batteries

Power Products new generation of smart batteries are smarter, keep you better informed, and keep you powered longer. Smart batteries are fully functional with Motorola IMPRES™ 1 and 2 chargers and feature higher capacities. They provide important battery data on the radio display that enables you to manage battery power with sophisti-

cated diagnostics.

Batteries powered by PolyMax HPC LiPo cells are best-in-class products that feature high capacity and these important benefits: They offer longer runtimes compared to other two-way radio battery options and greater cycle life compared to Li-Ion cells (500+ vs. 300). PolyMax cells have significantly lighter weight

compared to NiMH batteries with similar capacity. With a self-discharge rate of less than 5% per month, which is one third that of NiMH batteries. Solid construction and quality fit with radio. They can be charged using Endura, Logic, or OEM chargers designed for Li-Ion batteries. Also including Power Products Extended warranty – 24 months



**Power Products
Smart Batteries**

JPS - SNV-12 Voter

The SNV-12 uses Digital Signal Processors to continuously monitor multiple remote receiver sites and select the receiver with the best signal quality. A typical application is an LMR system in which mobiles and portables can hear a repeater, but the repeater can't hear them, due to their lower transmit power and/or the antenna size or

placement.

Remote receivers can be positioned in the communications dead spots, with audio from each receiver linked to the voter. The voter will select the best quality signal from all unscelched remote receivers and forward this signal to the repeater for rebroadcast or monitor by a dispatcher,

The new SNV-12 IP Backhaul capability is a major advancement, and is backwards compatible with SNV-12 analog voters already deployed. The new SVM-3 module, along with a new QMT-1 unit (for Quality Measurement & Transport) allow the use of IP networks for transport of receive and transmit audio. Ω



**JPS
SNV-12 Voter
With IP Backhaul**



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**More information
 at: [http://
 www.alster.com](http://www.alster.com)**



Federal Signal - Informer Alert

Alerting the public of an emergency situation is now easier and more reliable than ever with Federal Signal's Informer I-HIO and I-UIO radio receivers. These units are designed for one-way radio alerting.

Available in either VHF or UHF-band models, they decode DTMF, single-tone, and two-tone sequential signals (optionally available are units for decoding EAS/SAME or Federal Signal digital protocols). The Informer is capable of generating four separate alarm sounds that can be accompanied by a live voice message.

Informer units include a LED panel that flashes to immediately indicate transmission of an emergency alert. Other features include a 600-Ohm audio output, dual (N.C./N.O.) relay for external control, built-in diagnostics, and an LED test indicator.

The receiver can be programmed to disable the "monitor" button in order to prevent end-users or unauthorized persons from listening to local-channel activity.

The Informer I-HIO and I-UIO desktop versions feature an external AC transformer for power, as well as built-in battery backup. The I-HIO and I-UIOW receivers are designed to be wall mounted or recessed into the wall and include a 115/230VAC power supply pre-wired to internal terminal blocks and a built-in battery backup. These models feature mounting holes for easy top mounting of an optional Federal Signal LPI Strobe light. Units are pre-wired to accommodate the LPI Strobe which operates off the Informer's internal power supply.

Contact me for more information.
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ACES 2020
 Mark your Calendars
Boise, ID May 5th
Butte, MT May 6th
Spokane, WA May 9th