



OTTO[®] NoizeBarrier Pro[™]

New from OTTO Communications the NoizeBarrier Pro is a fully modular tactical communications headset that provides advanced situational awareness capabilities with exceptional sound localization and crystal-clear audio Tx and Rx.

NoizeBarrier[™] impulse noise protection reduces sound levels to safe levels of 85dB to prevent hearing disruption. Enhanced hearing amplifies soft sounds that might not normally be heard and boosts hearing while still providing protection. The situational awareness volume control is inde-

pendent of radio volume.

The NoizeBarrier Pro is field changeable between headband over-the-head and helmet mount systems. With advanced talk-through electronics for situational awareness (SA), it provides exceptional recovery when impulse noises are detected with no delay experienced in hearing allowing the user to continue to hear normal sounds like voices.

NoizeBarrier Pro provides the following features: 5 step volume control • Passive Attenuation: Min 23 dB NRR • Reversible boom • SCBA-compatible connector for gas mask

interface • Talk-through powered by two AAA batteries • Powered by radio if batteries depleted • Immersion rated 3 feet/31 Minutes.

Contact us today for more information.
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JPS Interoperability Solutions

VIA Push-To-Talk

The JPS VIA Push-to-Talk over cellular application, integrated with ACU radio interoperability gateways, provides our customers a major expansion in communications capabilities. Also, hardware costs drop when access to radio channels can be provided by cellular devices to personnel who need access, but don't require all features available to handheld radios.

Additional benefits include the ability to set up ancillary Smartphone talk groups to reduce traffic on

vital radio channels during a major incident, plus the extension of communications into areas with poor radio coverage, such as in a parking garage, or to supervisors traveling outside the coverage area.

JPS VIA is offered as a hosted service running on commercial 3G/4G/LTE/WiFi networks.

Customers simply purchase the service through JPS and download the application to their Smartphones from the JPS Android or JPS Apple App Store. A monthly ser-

vice fee is charged per mobile device used.

JPS VIA offers ESChat's full and very extensive feature set, and JPS will be also be rolling out new features that more tightly integrate the JPS VIA application with ACU gateways, bringing increased awareness and control to all users of the combined system. Ω



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Digital Whitepaper

Digital radio systems operate differently than legacy analog systems.

New Tech/New Tuning

Although digital radio alignments are similar to analog radio alignments, digital radios require more precise alignment to achieve optimum performance and must be verified for digital modulation performance.

Proper alignment can improve performance to maximize and deliver the high performance that digital technology was designed to provide. Improper alignments can cause degraded digital modulation accuracy, significantly impacting the receiver's ability to recover digital data.

Extensive lab testing using recorded digital radio RF

transmitter parameters shows that modulation alignments of the radio's transmitter parameters can positively or negatively affect performance of another digital radio's receiver.

In some instances, this can affect range to the same extent as a 75-percent reduction in power. With an understanding of digital radio operation and alignment, proper setting of audio filter parameters and the use of accurate deviation meters can significantly improve the performance of those radios.

Conversely, using inaccurate deviation meters compounded by improper filter settings and lack of knowledge of meter specifications and operation, can dramatically and negatively

impact digital radio performance.

Most RF professionals are aware of coverage studies that are related to transmit power variations. Assuming all things are equal except for power level, the coverage area becomes smaller as the radio's transmitter power level decreases. This is expected and would hold true for both analog and digital systems. However, with digital systems, additional factors can cause issues with coverage, in particular the quality of the transmitted digital signal.

Follow the link to our website to download the complete whitepaper.

<http://www.alster.com/video/white-papers/> Ω



Viavi -8800SX Service Monitor

The 8800SX expands upon the unprecedented features of the 8800 Series with a 10 MHz external reference and new software capabilities to further speed testing of today's Land Mobile Radio systems.

With its hybrid portable design, the industry's largest color touch-screen display, ruggedness, internal battery, power accuracy, advanced automated test and alignment, fast VSWR/Return Loss and Cable Fault measurements, the 8800SX offers RF professionals a whole new experience in

radio test.

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 8800SX is designed for maximum test efficiency. With the industry's largest display, ultra-fast store and recall "Presets", and its

unique "Fast-Stack" user interface that allows test tiles to be stacked on one another and quickly accessed, test professionals can set up analog and digital tests in seconds and have instant access to more displayed meters and test functions.

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Viavi Avcomm 8800SX Service Monitor





Pyramid - SVR-N300 Repeater

The SVR-N300 is the next generation simplex vehicular repeater from Pyramid Communications that is fully compliant with the NEXEDGE NXDN Digital Air Interface (DAI) protocol.

The SVR-N300 also utilizes Pyramid's latest NXDN ESP™ priority structure that establishes a priority vehicle to handle on-scene communications. With ESP™, priority vehicles are assigned without user intervention to ensure uninterrupted communications when users exit their vehicles. ESP™ also ensures a quick recovery if two vehi-

cles get in a priority mode at one scene.

In addition, the SVR-N300 offers our built-in NXDN Smart Trunking protocol, which automates the trunking to the portable radio using our TM-250 series trunking microphones. Supports NXDN emergency signaling from portable to dispatch through the SVR-N300 and allows the SVR to relay an emergency with Hot Mic from the portable radio user.

The SVR-N300 is both NXDN and Analog capable and can interface to analog, NEXEDGE or NXDN mobile radios, providing flexi-

ble inter-operability between systems that wouldn't normally be able to communicate. The SVR-N300 will interface to analog, digital, conventional or trunked mobiles

for a wide range of applications.

In Analog mode, the SVR-N300 is fully compatible with existing SVR-200 and SVR-250 vehicular

repeaters to provide seamless integration while users upgrade their systems from analog to NXDN digital. Ω



**Pyramid SVR-N300
NXDN
Vehicle Repeater**

Viavi - 3920B Service Monitor

The 3920B. The most advanced radio test solution from Viavi Avcomm for engineering, production and field service applications. The 3920B features an improvement to the RF signal generator phase noise specification of -110 dBc/Hz at 10 kHz offset. The instrument provides a comprehensive range of general purpose analog measurement facilities as well as advanced digital test options. The 3920B includes many standard features as well as a host of optional test capabilities and digital personalities

With the largest selection of digital radio options of any radio test set, the 3920B will meet all of your

test needs, both now and in the future. The software defined digital architecture of the 3920B

provides for future technology enhancements as new digital technology becomes available. You can easily perform software updates in the field, making additions of new software features and options as simple as plugging in a USB flash memory drive.

To make you more productive, the 3920B is not only simple to use but has features that makes testing a radio quick and repeatable. The 3920B features easy-to-read meters with Pass/Fail color coding for instant Go/No Go testing. With these easy-to-

configure meters, you can set up unique Pass/Fail parameters for each radio type that you are testing. When used with the save/recall locations, this allows for instant recall of the test parameters, so semi-technical or non-technical individuals can simply key the radio and test. The meters will display "Green" for good, "Red" for high and "Blue" for low. A quick glance and the operator will know that the radio is within established test parameters.

Contact us for more information. Ω



**Viavi Avcomm
3920B
Service Monitor**



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Alster News

Cadex - C7X00 Series Analyzers

The Cadex C7x00 Series battery analyzers offer a platform that fulfills virtually all battery testing and conditioning needs. With features such as QuickSort™ that checks lithium-ion batteries in 30 seconds, and Boost that revives dead packs, the C7x00 truly masters battery testing.

Slide a battery into one of our 1,500 custom Battery Adapters, or use a Universal Adapter and you will discover why the C7x00 has become the world's leading battery analyzer.

The C7200 Two-Station suits smaller organizations and store-front operations. 40 watts of charge power at 4 amps per station ensure quick service of larger batteries.

The C7400 Four-Station with four-stations and 80 watts of charge power,

the Cadex C7400 is most economical in terms of cost per station.

The Cadex C7400ER is the most powerful of the C7000 Series battery analyzers. Six amps per station, service of 36 volt batteries and 170 watts of continuous power satisfies most service requirements.

Give us a call for more information. Ω



ACES 2019

Mark your
 Calendars

Honolulu February 7th

Salem, OR May 7th

Tacoma, WA May 8th

Anchorage, AK May 9th