



Bird - 1 Port SignalHawk

This will be a feeble attempt to describe the Bird SignalHawk, 1-Port VNA with Spectrum Analyzer. The SH361-S has an operational frequency range of 325 MHz to 3.6 GHz and a spectrum frequency range of 100 KHz to 3.6 GHz, this hand held tester deserves your attention.

Biggest Color Screen

How about 34 square inches of color screen? How about 11,265 data points compared to 1001 for our competition? How about 705 display points compared to 517 for our competition?

Longest Battery Life

How about 8 hours of hand held use compared to 4 or less from our comp-

etition? How about using the existing group of Bird Wide Band, Thru Line and Terminating Power Sensors? How about using these sensors without having to purchase an optional power sensor interface? How about GPS Software included at no charger compared to \$400 for our competition?



**Bird SH361-S
1 Port Analyzer**

Non-Proprietary

How about Windows CE software? How about uploading your site data Excel file directly? How about typing notes into the SignalHawk, then downloading them on your PC at the office? Nothing proprietary.

The Right Decision

All this for \$10,000! You could pay \$12,500 for a competitive unit with a smaller screen, less data points, fewer display points, shorter battery life and have to use proprietary software - but why would you? You are a smart customer, right?

Make the right decision, Buy a SignalHawk. Need help - let me show you. Ω

Raytheon/ACU Universal Cable

Raytheon's engineers responded to numerous customer requests and designed a universal cable to expedite field interfacing of radios when the correct interface cables are not readily available. With this cable design, there is no

need for any field soldering of cables or carrying of components, such as resistors, capacitors, inductors, etc.

Universal Design

The universal design uses DIP switches to either in-

sert or remove components in the field without ever having to solder components to the cable which can be very difficult to accomplish.

Please call me for more information or pricing. Ω

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ACES Coming To The West Side In October 4



Daniels - VoIP Linked Repeaters

A local or wide area network can be used to link multiple repeater sites together. Using existing network infrastructure eliminates the need for leased lines, microwave, or radio links and also allows for repeaters to be located in areas where line of sight paths between repeater sites may be difficult.

A network extension unit is connected at both repeater sites allowing PTT / COR and audio signals to

be sent across the LAN / WAN to and from the remotely located repeaters.

Up To Seven Sites

By establishing a series of repeater sites, a chain can be linked together to provide radio coverage over a large area. Daniels repeaters may be linked through a maximum of 7 sites. At each link site, one or two radios may be used to provide local coverage or aircraft coverage. The local

radios or the link radios are often accessed by tones.

IP Connectivity maintains digital audio integrity, encryption and provide additional signaling capabilities.

IP Dispatch Console

IP interfaces between base station and Dispatch console provide a simpler solution, new features, reduced cost and greater security to end users. Daniels provides the solutions you need for communications. Ω



Daniels Base and Repeater Modules

Otto - Lightweight Hurricane II

The Hurricane II headset is designed to provide the performance of a heavy duty headset in a high noise environment without all of the weight and bulk.

The dual earloops ship standard with NoisEzsm Ear Tips with an NRR rating of 29dB. The user can easily convert the headset for use

in a low noise environment by simply switching out the eartips.

Public Safety/SWAT

This unit is recommended for Public Safety Markets (police, fire, SWAT and EMT services), heavy duty manufacturing, airline industries and any other applications that require a light-

weight headset alternative in a high noise environment.

Five Remote PTT

Five Remote Push To Talk options: Ring PTT, 80 mm (for armpit) PTT, Barrel PTT, Flat PTT and 2.5 mm Pigtail - all for remote control of transmissions.

Want to see one? Call Ω

Otto Communications offers a rugged lightweight headset for high noise or public safety environments.

Aeroflex 3500A - Updates!

The 3500A improves upon the success of the Aeroflex 3500, the industry's first 1GHz hand-held test set. Now at less than 8 lbs., and packaged in a NEW cast magnesium alloy case, the Aeroflex 3500A is truly a rugged and portable radio test set. With NEW integrated audio connectors

and a microphone connector, the 3500A offers even easier operation than the 3500.

7 Hours Operation

Featuring full radio test set features, with up to 7 hours of battery life, the Aeroflex 3500A is ready to be used anywhere. The

3500A is perfect for testing AM and FM radio transceivers, whether on a bench, installed in a vehicle, or in some remote location. It also has the power to test the cables and antennas, making it the only hand-held radio test set that can test all the components of an installed radio system. Ω



Aeroflex 3500A



EXFO - Single Ended Loop Testing

Higher data-rates force shorter loop lengths because the use of higher frequencies, with the result that new SELT methods offer an economical and viable alternative to two-ended loop testing.

SELT Finds Faults

SELT frequency response tests can be used to characterize signal transmission across a wide frequency spectrum and has the added benefit of revealing fre-

quency related faults (such as bridged taps), which are not usually visible with spot frequency attenuation measurements.

Shows Lost Power

Compared to two-ended loss measurements, SELT methods can develop a picture of lost power transfer from one end of the loop, which correlates to far-end receive level.

With information on the architecture and length of

the loop, SELT tests can be correlated to one-way loss measurements with the added value of frequency response information. Such a method is more powerful to quantify the reach of signal transmission across the entire service frequency spectrum and to identify frequency-related faults—through characteristic frequency response—that affect an already critical SNR for services such as IPTV.

Call for a demo. Ω



**EXFO AXS200/635
Copper Test Set**

WK-S Weatherproofing Kit

Times Microwave introduced a new tape kit at the IWCE Show and will again at the APCO Show. It will be worth your time to review the **WK-S** weatherproof take kit.

No More Tapes

Avoid tapes and mastics with the new Times Microwave Systems self-bonding

silicone weatherproofing tape kit for protection of outdoor connector installations.

The new tape kit, **WK-S**, facilitates easy installation and provides a long-term environmental seal for connections. With a list price of \$24.00, each kit can weatherproof up to 12 con-

nections making it a fast and cost effective solution.

Less Than \$2

Per Connection

You got that right! Less than \$2 per connection. For more information contact your favorite distributor or give me a call for a free sample. Ω

Times introduced a terrific weatherproof kit for cable connections at IWCE. We have free samples

Narda Tri-Band Power Dividers

Narda East manufactures high performance power dividers for lots of applications. For Broadband applications from 800 to 2500 MHz, they now have lower cost dividers that provide outstanding RF performance at a commercial price.

Whether you need 2, 3, 4 or 6-way dividers or comb-

iners, Narda has the product you need.

Tri-Band Devices

With years of experience in AMPS, PCS, DCS, UMTS and WCDMA, Narda Cellular/PCS/WiFi power dividers are well known and needed for moving RF from one point to several points.

Split-Band Operation

In addition to the typical Tri-Band devices, Narda offers split-band (800 - 1000 MHz or 1900 - 2500 MHz) dividers or combiners.

Finally, if a 6-way device is not satisfactory, we supply 8 and 16-way devices too.

Call me for more info. Ω



**Narda Power
Dividers**



ACES COMING TO THE WEST

Your Alster team is in the process of finalizing our seminar and exhibitors for what may be our 29th ACES Show (it's 28 or 29). See the right bar for the locations.

Seminars Include

Demonstrating Auto Alignment of P25 Digital Mobiles and Portables

Cloning from the LPH/EPH/GPH/DPH to the Command (CMD) radio and future cloning

Discussion of emergency and stealth repeater functions for quick deployment and undercover operations from 30 watts down to less than one watt

RF Safety - learn how to work around electro-magnetic energy SAFELY

Discussion of handheld spectrum analysis and site maintenance, line sweeping

T-1 copper testing and fiber and optics testing using hand held devices.

Exhibitors

Aeroflex, Avtec Dispatch Consoles

Bird Technologies

Daniels Electronics

EXFO, Larsen Antennas

Narda RF Safety, Otto Comm

Raytheon, Relm Wireless

Survey Tech, Times Microwave

TXRX Systems, Valmont

Ω

ACES In October

Mark your calendars for October 6/7/8, 2009. Here are the dates and locations where we will hold ACES:

Tuesday - October 6

Salem, OR

Wednesday - October 7

Issaquah, WA

Thursday - October 8

Anchorage, AK

We will have technical seminars, new products in the exhibit area, a free lunch and lots of door prizes. So, come to learn and have a chance to win. You will enjoy yourself at ACES meeting your colleagues and learning something new. Ω



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