



# Alster/News

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## Daniels - Small Tactical Repeater

Daniels new ET-5 tactical repeater provides the smallest footprint of any transportable P25 repeater supporting transparent encryption in VHF, UHF or 800 MHz bands.

### D-Cell Operational

It operates with standard alkaline D-Cell batteries that are available at any retail store as well as rechargeable lead acid batteries.

The Daniels Electronics ET-5 Tactical Repeater is specifically designed to meet the needs of body wire repeating for undercover operations and other surveillance operations where radio communications providing stealth, compact size for unobtru-

siveness and rapid deployment are vital.

### P25 Compatible

The ET-5 is available in VHF, UHF or 800 MHz frequencies with 0.5 to 6 watts output on VHF or UHF and 0.5 to 3 watts output at 800 MHz. It adheres to the P25 standards TIA-102 and TIA-603-C.

It provides transparent passing of P25 encryption (e.g. AES or DES-OFB) with no double vocoding of the P25 signal. Therefore, you have true end-to-end digital integrity.

Using commercial off the shelf D-Cell alkaline batteries, it will provide up to 19 hours continuous operation.

### Compact Size

The ET-5 weighs only 20 lbs. (9 kgs) and comes in a compact case that measures 14" x 11" x 6" (36 x 29 x 16.5 cm).

It is available with integral 4.5 MHz duplexer – VHF, UHF (45 MHz – 800 MHz)

We would love to show this new product to you, just give me a call. Ω



**Daniels ET-5  
Small Repeater**

## Relm Wireless - New Products

Relm Wireless is making changes in the industry. Last year they introduced the KNG (King) portable. This newly designed, software feature rich radio is the platform on which other new products will be built.

### Four P25 Portables

The KNG150 (VHF) is the first of four portables, four mobiles, and eight repeaters that are coming to market.

We've been selling the P150 for over six months,

now the P400 (low UHF) is delivering and the P800 has been FCC Type Accepted and should start shipping very soon.

We want to show you the new radio as soon as possible, please call me. Ω

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## ACES - Honolulu, February 12

We will hold our third ACES Show on Thursday, February 12, 2009 at the Ala Moana Hotel beginning at 8:00 AM.

### Seminars

We will have seminars from Aeroflex on P25 Auto Align and MotoTurbo; Bird and Times will kick in with Line Sweeping for Distance To Fault and VSWR; Daniels will condense their day long P25 overview into 90-minutes; JPS will provide

an overview of their Wide Area Interconnect System for Statewide control of ACU's; Times will demonstrate the correct technique for connector installation; TXRX Systems will discuss In-Building System Design.

### Exhibits

We will have table top exhibits from Aeroflex, Bird Technologies, Coscomm (Satellite Communications), Daniels Electronics, Gabriel Microwave Dishes, JPS

Communications, Laminated Wood Systems, Larsen Mobile Antennas, Multiplier Batteries, Survey Technologies, Times Microwave Cable, TXRX Systems, Valmont Communications and Watson Dispatch.

### Free Lunch/Prizes

Finally, we will provide door prizes and a free lunch. So mark you calendar and register at [www.alster.com](http://www.alster.com). Please call with any questions. Ω



**Times Microwave Booth  
ACES 2006 - Honolulu**

## Larsen Antenna Terminology

Do you know what the model numbers from Larsen mean? Let's examine the 700/800 MHz offering and see what we can learn.

KG - is the patented, low impedance on-glass antenna

LM - is the 5/16 thread stud mount for 3/4" holes

LP - is the low profile disc that is NMO mounted

LPT - is the low profile transit, NMO mounted

MS - is the economical, compact, magmount

NMO - is the premium Motorola 3/4" hole style

OM - is the self mounting, no ground plane style

SB - is the Stealth Blade circuit board design

### Quality

What these 700/800 MHz antennas have in common is high quality and specific application design.

Just like the SPOTS rubber duck and the Kulduckie have their own application. So do these. Do you want more info? Just give me a call and we'll help you. Ω

*Larsen Terminology Is Available On Their Web Site At:  
<http://www.larsen-antennas.com/docfiles/ASB9/Mobile/CellularSMRData700800900MHz.pdf>*

## Time Mine Safety Leaky Feeder

Times Microwave Systems announces the availability of its MSHA (Mining, Safety and Health Administration) approved leaky feeder cable. **T-Rad®-600-FR-MSHA** 1/2" leaky feeder cable is marked with an MSHA qualification reference number, signifying its suitability for use in min-

ing applications where MSHA approvals are required.

### Local Stock

**T-Rad®-600-FR-MSHA** (PN 44048) has a list price of \$2.65/ft and is available through our distribution network. **T-Rad®** cables

are low loss, flexible, non-kinking RF leaky feeder transmission line cables that are suitable for various interior communication coverage solutions including 2-way communications and RFID for mine safety systems.

Call me for more information or a sample. Ω



**Times Cable  
Prep Tool**



## Bird Technologies - SA-6000

The Bird's® Site Analyzer® SA-600 is the most user-friendly test solution for installing, maintaining, and troubleshooting your antenna and cable systems,

Field engineers and technicians rely on this rugged handheld tool to do three required tests. These include Distance to Fault - looking for a short or impedance match issue along the length of the cable; VSWR or Return Loss - verifying how much RF en-

ergy actually escapes the antenna and how much is reflected back to the transmitter; Power Measurement - digitally reading live forward and reverse power.

What makes this versatile product so helpful is the user interface. The unit responds to the way you think. Pressing the Mode Button gives you three choices - Measure/Match, Fault Location or Measure Power. What could be easier than that?

When you choose Measure/Match, you now have Frequency, Scale, Limit Line and Cable Loss - all of the things you would be thinking about when looking for VSWR. What Frequencies do I want to sweep? What Scale do I want to see? What pass/fail limit line do I want so have? What is the cable loss?

The SA-6000 responds to the way you think so your testing is easy and fast. Call me for a demonstration. Ω



**The Bird SA-6000 Hand Held Site Analyzer**

## Aeroflex Microwave Power Meter

Aeroflex's Counter Power Meter (CPM) is a portable combination of three instruments: a Microwave Frequency Counter, true Power Meter and Digital Voltmeter. A compact instrument with internal rechargeable battery, ruggedized case and carrying strap, it can be used up a tower, on a roof top or at a

field site.

Digital microwave radios are commonly installed for network access to mobile radio cell sites and quick installation of business communications.

### Hand Held

The CPM is the ideal instrument for installation

and maintenance engineers working on these systems.

### Two Models

The CPM is available in two models:

10 MHz to 20 GHz

10 MHz to 46 GHz

If you would like to try one of these, just give me a call and it will happen. Ω

*Aeroflex makes a 10 MHz to 20 GHz Microwave Hand Held Power Meter*

## Otto Top Ten Sellers

Otto Communications has thousands of audio accessories for almost every portable available on the market. Here is a list of the top ten sellers in our territory - it is very interesting.

### V1-10172

Our top seller is a two-wire kit for Motorola/EF

Johnson P25 portable. The second most popular unit is the V2-L2VD11 Profile speaker-mic for the Vertex portable.

### Rest Of The List

Numbers 3 through 10 are:

V1-10433 - Earphone

V1-10174 - Earphone

V1-10176 - 2-wire kit

V1-10432 - Earphone

C806573-LM - Ear Insert

V2-L2KA11 - Profile Mic

V2-10314 - Evolution Mic

V1-10335 - Adaptor

Call for the whole list. Ω





## JPS - Software Updates And 24 Hour Help

A free ACU-M software upgrade to version 1.06, which includes a bug fix which resolves a voice prompt audio problem found with some units as well as the addition of Unit ID announcement functionality, can be found at <http://www.jps.com/page/view/page249>.

### JPS 24 Hour Help Line

Please make note of the 24 hour hot line for JPS Communications - 800-498-3137. At this number you can find assistance for any JPS product including voters, ACU-M/T/1000 and 2000, NXU-2A and VoIP/RoIP.

Several other resources are available to you in time of need at their website - [www.jps.com](http://www.jps.com).

You are always welcome to give me a call, I will try to help you.

### Register for ACES Honolulu

We try to make it easy to register for our ACES Shows. You can go to [www.alster.com](http://www.alster.com), fill out the form on the front page and submit it or you can give Steve or Wanda a call at 800-365-1272.

### [www.alster.com](http://www.alster.com)

The official invitation will be sent out in the middle of January and there will be a registration form that you can fill in and fax to us.

### February 12, 2009

Thursday, February 12 at the Ala Moana Hotel beginning at 8:00 AM and concluding about 2:00 PM. Parking costs will be reduced if you park at the hotel. 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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