

# Alster News

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- Be Sure To Charge Your Batteries
- Otto Introduces Dispatch Headset

## Multiplier Has Primary Batteries

There are times in the life of a portable radio where using a rechargeable battery is not appropriate. For these opportunities there are Alkaline and Primary Lithium Batteries. The advantage of the Primary Lithium cell over the Alkaline is lighter weight and higher capacity. Lithium batteries also have a shelf life of 10 years. Multiplier uses the highest performing Sanyo cells.

Primary Lithium Batteries are available for extended use and Emergency Operations for the following radios:

### Kenwood

MKNB-15LI - for the TK-260/260G/270/360/360G/370, TK-2100/3100/3101. 1800 mA.

### M/A-COM

M838P3-LP - for the MRK. 3900 mA.

### Motorola

M4595-LP - for the Saber. 4200 mA.

M7144-LP - for the HT1000, MT2000, GP900, GP1200, HT600, JT1000, MOBIUS, MTX8000, MTX9000. 4200 mA.

M8394-LP - for the XTS3000. 4200 mA.

M9012-LP - for the HT750/1250/1550, GP320/340/360/380. 4200 mA.



### Multiplier Batteries

### Battery Warranty

Ni-MH - 12 months

Ni-Cd - 18 months

Li-ion - 12 months

Workmanship - 24 months

### Charging New Batteries

Multiplier batteries are not fully charged when shipped from the factory. Please charge the battery when you open the package. A 14 hour, overnight charge on a standard charger is best. Use the battery soon and use as much of the battery as you can before the next charge. Ω

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Montana APCO Show, June 9 in Missoula, MT 4

## Dispatch Headset Variety from Otto

If you are currently using the Plantronics SHS1890 dispatch headset, Otto Communications has an alternate plan. By upgrading to the Otto Remote Control Interface (RCI), your dispatchers can use three different types of headsets.

The Explorer plugs into the RCI and is an over-the-ear headset with ear plug and small boom microphone.

The Breeze plugs into the RCI and is a

behind-the-head wire, noise canceling headset with single ear audio and flexible boom microphone.

The Lightweight plugs into the RCI and is an over-the-head, single muff, noise canceling headset with flexible boom microphone.

The RCI provides a mute/cough switch, volume control and PTT. Please contact your local Otto dealer or me for your demonstration of the new headset. Ω

## Aeroflex Offers Many Service Monitors

Aeroflex offers a wide range of service monitors covering wireless applications from HF to 2.7 GHz. These Test Sets are used in engineering, production, support and service applications.

### 2944

This new cost effective monitor has a 0.5 ppm TCXO standard; duplex RF levels down to -141 dBm; Dual-audio generators from 10 Hz to 25 KHz; narrow and broad-band power meters and full spec-an with optional tracking generator.

### 2945A

This has the same features at the 2944 with a built-in tracking generator and 50 KHz DSO.

### COM-120C

Color display with split screen; 1 GHz spec-an; 100 channel programmable memory; EDACS option and more.

### 2975

The digital service monitor. To learn more, just visit [www.P25.com](http://www.P25.com) where you can download software to keep your IFR 2975 Project 25 Radio Test Set current.

### Sale on Spec-Ans

Aeroflex has 2 each 2398 and 8 each 2399A demo units for sale. These units have been in the field less than a year and have a new warranty. For \$7,000 to \$8,000, these are a steal. Ω



Aeroflex 2944 Analog

## Acterna Certified Equipment Program

The Acterna Certified Equipment (ACE) Program allows you to purchase used equipment with the same confidence as when purchasing new equipment. Acterna products have stood the test of time and are a critical piece of service provider's, equipment manufacturer's, and enterprise network's operations.

Customers often decide to purchase used equipment as a way to minimize budget expenses and still get the tools they need. Many of these customers come to Acterna, after pur-



chasing equipment from online or alternate sales channels, to have us repair, calibrate, or replace accessories for the product they just purchased. The Acterna Certified Equipment Program eliminates these headaches by providing equipment that meets Acterna's new product specifications.

For a list of the available ACE Program equipment and quotation, please give me a call. We can arrange to ship the equipment to you for evaluation. If the unit meets your needs, you get a used product with a new warranty. Ω

*Acterna has used and demo equipment that has been refurbished. You can get new quality at a used price.*

## Maxrad - 2.4 GHz Elevated Feed Antenna

MAXRAD introduces a new elevated feed 2.4 GHz mobile antenna designed to secure the optimal wireless coverage of mobile data systems in public safety vehicles. The new, elevated feed antenna (BMEFC24005) is ideal for installations requiring elevation of the antenna over surrounding objects that can often obstruct omni-directional RF coverage.

Providing 5 dBi of gain, this antenna operates both on and off a ground plane,

without degradation to its VSWR performance. It measures 16 inches tall, and its feed point is elevated 9-1/4 inches above its mounting surface, easily clearing the overhead light bars in police and ambulance vehicles which often obstruct the RF signal. The antenna features a rugged molded polymer elevated feed housing and stainless steel spring and rod, for maximum resistance to every day wear and tear. Contact your dealer for more info. Ω



5 dBi 2.4 GHz Antenna

## Times Cable - More Products You Need

Times announces the availability of clip hangers and standard hangers for its **LMR®** low loss coaxial cables. Clip hangers are available for sizes 600 through 1700 and the standard hangers for sizes 400 through 1700. Designed for supporting single runs of cable in wireless systems, both types of hangers are fabricated from corrosion resistant stainless steel for long-term reliability in extreme weather conditions.

The clip hangers feature a locking mechanism which is easily latched once the hanger is mounted and the standard hangers have a pre-formed design allowing the **LMR®** cable to be quickly snapped into place. These new hangers complement

other hangers already available including butterfly and snap-in types and are sold in kits of 10 each. Hanger mounting hardware which includes a selection of size bolts, lock washers and hex nuts are also sold in separate kits of 10 each.

Times also has TC-400-TM-RT TNC male reverse thread connectors for LMR-400. The reverse thread configuration is used for unlicensed wireless communications applications in the ISM frequency bands.

The TC-400-TM-RT connector is ideally suited for use at the upper ISM frequency bands of 2.4 GHz and 5.8 GHz because of its low loss and low VSWR. Please contact your local distributor for pricing.  $\Omega$



**Times Hangers**

## Bird - Antenna and Cable Monitor

Bird's Antenna and Cable Monitor is the solution for monitoring your transmission antenna systems. Service providers and self maintained end users can rely on this monitor and alarm to keep their critical sites up and running. Designed to detect antenna and cable faults that transmitter-internal VSWR monitors may not detect, it also provides accurate in-line power measurement functionality.

Worldwide systems include Tetra, Cellular and PCS with digital or analog modulation. Other applications include 3G, AMPS,

Broadcast, CDMA, CDMA 2000, DCS, EDGE, Government, GPRS, GSM, iDEN, Industrial, NPSPAC, Microwave, Military, Paging, Public Safety, Rail, SMR, TDMA, Tetrapol, Trunking, UHF, Utilities, VHF, W-CDMA and WLL.

Models available from 136-225 MHz, 225-520 MHz, 470-960 MHz, 960-2400 MHz. Accurately monitors your antenna and cable system VSWR levels.

Local or Remote operation via 7005A970 PC Tool Software (Optional Accessory). Please contact me for additional information.  $\Omega$

*Antenna and Cable Monitor works with GSM, CDMA, TDMA and other modes*

## TXRX Announces New VHF and UHF Di-Pole

The **VHF and UHF WDS Series** is a new PIM rated antenna with enhanced inter-modulation performance. Omni-directional & Offset models are available for VHF and PMR applications. The element supports are pulse welded to the main support tube to eliminate the unwanted generation of RF noise that can occur in antennas using rivets or nut and bolt fasteners. The 3rd order intermodulation performance is typically better than -145 dBc using 2 x 20 watt carriers.

The dipoles are fed in phase via a fully weatherproofed 4-way splitter box mounted on the support tube.

VHF frequencies from 132 to 174 MHz in 12 or 15 MHz bandwidths and 4.6 dBd gain. UHF frequencies from 380 to 512 MHz in 30 to 55 MHz bandwidths and 8.5 dBd gain. Each has 7/16 Din connectors.

For performance specs, please see [www.txrx.com](http://www.txrx.com). For pricing, please give me a call.  $\Omega$



**TXRX Di-Pole in VHF and UHF**

# Watson Dispatch Furniture - In Hawaii

Watson Dispatch Furniture will display the new Synergy Console product in Honolulu on Tuesday and Wednesday, July 13 and 14. A demonstration area has been provided by Pacific Wireless Communications.

The new Synergy Console is the latest evolution of dispatch furniture by Watson. It incorporates a powered sit to stand primary work surface, powered input platform, slide out tray supports for CPU towers, front, back and side access with optional lighting for technicians.

The new Total Comfort Control System includes fresh air fans, heated feet/chin area, lighting with dimmers and full control of the powered primary and input platform surfaces.

## National APCO

The National APCO will be held August 8–12, 2004 in Montreal, Quebec, Canada. This will also include seminars for dispatchers, supervisors and technicians. You can check out this show by visiting their web site at [www.apcointl.org/conferences/](http://www.apcointl.org/conferences/)

## ACES 2004

Our mainland ACES has been set:

Boise, ID - Monday, October 4

Helena, MT - Wednesday, October 6

Spokane, WA - Thursday, October 7

ACES will be coming to Hawaii in February, 2005. The location and date have yet to be determined. Ω

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