

# NEW PRODUCTS

## AEA Members Highlight Safety, Power Systems, Entertainment and More

BY CHRISTINE KNAUER

In 2010, safety systems dominated new product introductions. From HTAWS and synthetic vision to tiny personal locator beacons and a 406 MHz ELT with GPS, operators now have more ways to keep passengers and crews safe in the air and on the ground.

For tech-savvy consumers, manufacturers introduced more high-definition video capabilities and 3-D moving maps, as well as Wi-Fi for Web browsing and checking e-mail at 41,000 feet.

2010 also brought new audio selector panels, innovative test equipment, special overlay panels, GPS portables, and a virtually indestructible memory unit that can withstand fire from automatic weapons. Several companies focused on providing power while others rolled out updates to their popular instruments and avionics suites.

Here is a round up of all the new products and features of 2010.

### AEROFLEX

Aeroflex introduced the ALT-8000, an RF-based, portable radio altimeter flight-line test set. The ALT-8000, which features a large, 12-inch color touch-screen, is a lightweight universal test set for 4.3 GHz frequency modulated continuous carrier wave radio altimeters and pulse radio altimeters. The ALT-8000 offers an inexpensive, portable simulator for testing radio altimeters installed in aircraft and unmanned aerial vehicles.

Aeroflex also introduced the GPSG-1000, a lightweight, portable flight-line GPS and Galileo positional simulator that allows technicians to simulate a complete GPS-covered flight around the world using the unit's built-in waypoint system.

The GPSG-1000 supports civil and military avionics field

and bench maintenance technicians, production test technicians, and systems integrators with a modern simulator for L1, C/A code and L1C, L2C, L5 GPS modernization signals, as well as new Galileo E1, E5 and E6 services. It can be configured with

single-channel, six-channel or 12-channel simulation.

For more information, visit [www.aeroflex.com](http://www.aeroflex.com) or call 316-522-4981.



*Aeroflex's ALT-8000*

### AIRCELL

Aircell's new ATG 5000 system provides standalone Aircell high-speed Internet capabilities for customers who don't require integrated voice and narrowband data features.

The system includes an 11-pound, 3 MCU ATG 5000 high-speed Internet line replaceable unit, two belly-mounted blade antennas, which weigh 1.25 pounds each, and an optional 4-pound cabin telecommunications router. Wired or Wi-Fi in-cabin connection options are available.

The ATG 5000 offers a full Internet experience similar to ground-based Internet. Users can surf the Web, send e-mail, access social media sites, watch and send videos, and more.

With built-in, wide-area network management, the system allows for automatic switching between Aircell high-speed Internet and Aircell's SwiftBroadband solution, which



*Aircell's  
ATG 5000*

is useful when the aircraft travels outside the network.

Aircell is based in Broomfield, Colo.

For more information, visit [www.aircell.com](http://www.aircell.com) or call 303-301-3200.

**ASPEN AVIONICS**

Aspen Avionics of Albuquerque, N.M., announced it is adding Evolution synthetic vision to its Evolution 1000 Pro primary flight display. Evolution synthetic vision will be available first quarter 2011 as a software upgrade to Evolution flight displays in the field and as an option on new Evolution PFDs.

The company released Version 2.2 Evolution software for the Evolution 1000 Pro primary flight display, 1000 multi-function display and 500 MFD. Version 2.2 includes

the full suite of AeroNav (formerly NACO) charts and geo-referenced airport diagrams, as well as new nav map panning functionality and an improved information selection.



*Aspen Avionics' Evolution with geo-referenced airport diagrams*

Designed for helicopter operations, Aspen's new Evolution EFD1000H Pro PFD, EFD1000H MFD and EFD500H MFD recently earned an STC for the Bell 206 series helicopter. STCs for the Robinson R22/R44 and Eurocopter AS350/AS355 helicopters will follow in the future.

Aspen's Evolution backup display will be available in December. Also available

fourth quarter 2010 as an upgrade to the Evolution MFDs, Aspen's new Evolution engine monitoring feature will display critical engine data on Evolution 1000 series and 500 series MFDs.

For more information, visit [www.aspenavionics.com](http://www.aspenavionics.com) or call 505-856-5034.

**AVIDYNE**

Avidyne, headquartered in Lincoln, Mass., announced the Entegra Release 9 integrated flight deck avionics suite

for the Extra EA-500 aircraft, Cirrus SR20/22, Piper PA-46 and PA-32.

"FMS Preview," a new feature in Release 9, allows pilots to see a graphical presentation on the split-screen map as they scroll through available departures, airways, transitions and approach procedures. FMS Preview provides an FMS-centered view, which centers the map on a selected waypoint. Pilots also can scroll through the flight plan and view the entire route.

Avidyne's new EX600 MFD for general aviation aircraft and helicopters offers a larger, 5.8-inch diagonal display with dedicated map planning keys and QuickPan for one-touch toggling between present position and a



*Avidyne's Entegra Release 9 with its new FMS Preview*

panned-to position. In addition, Avidyne has partnered with RocketRoute.com to provide Eurocontrol-approved flight planning for the European general aviation market. With RocketRoute.com's Web and mobile apps, pilots can prepare, file and send the route direct to their Avidyne-equipped aircraft.

For more information, visit [www.avidyne.com](http://www.avidyne.com) or call 781-402-7400.

**AVIONIC INSTRUMENTS**

Avionic Instruments of Avenel, N.J., which designs and produces power conversion equipment for military, commercial and aerospace applications, introduced its 2KVA static inverter. The single-phase unit is available with output configurations of 115, 230 VAC and 50, 60 and 400 Hz.

The 50/60 Hz static inverters are suitable for business jet and VIP amenity power for entertainment systems, galley accessories, personal computers, and telecommunications, as well as for providing power for special-purpose military and medical aircraft. The 400 Hz units can be used

for emergency backup power or for AC loads on strictly DC-based aircraft.



*Avionic Instruments' 2KVA static inverter*

Avionic Instruments also unveiled its DC-DC controller light dimming unit. The new 5V, 75W unit is smaller and weighs 7.4 ounces — a 31.4 percent reduction in weight from the company's standard 5V, 75W unit.

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Typical dimming applications include cockpit display panels, interior and exterior lighting systems (incandescent, LED and electroluminescent panels), fixed DC output for laptop power and other accessories requiring DC power.

Both products are expected to deliver at the end of 2010.

For more information, visit [www.avionicinstruments.com](http://www.avionicinstruments.com) or call 732-388-3500.

## CIRRIS SYSTEMS

Cirris Systems of Salt Lake City, Utah, which creates cable and harness test equipment, unveiled new programming capabilities and pre-programmed connector libraries to its Pin-Sight system. Pin-Sight is designed to ensure correct pinning of electrical connectors during wire harness assembly.

In addition to accessing connector libraries, users now can import pinning data from a variety of electronic document types, including Excel, CSV and PDF. Wire identification also can be input via barcode, keyboard or speech.

The Pin-Sight tool features a high-resolution CCD camera and an adjustable connector holder mounted to a force-sensing base. The combination allows operators to quickly and accurately insert wires or plugs into the correct cavity and to verify all wires truly are locked in.

An extreme close-up zoom and adjustable transparency levels offer real-time guidance on a video monitor to provide a clear picture of the connector and allow the operator to "see through" fingers and wires. Visual feedback ensures the proper wire color has been placed in the proper cavity, eliminating mis-plugged wires.

For more information, visit [www.cirris.com](http://www.cirris.com) or call 800-441-9910.

## DPI LABS

DPI Labs of LaVerne, Calif., launched Smart Link/HD, a digital system that distributes high-definition content, as well as other video formats, to standard or high-definition monitors in their native format. It supports 22 channels of uncompressed HD content and more than 500 independent channels of stereo audio over a noise-immune, fiber-optic trunk. The unit is 1080p-compliant and configurable, and it can be scaled to any cabin requirement.

The result of a partnership with Innovative Advantage of Redmond, Wash., the Smart Link/HD system combines both DPI Labs' Smart Link cabin management control system and Innovative Advantage's audio and video dis-

tribution system. Smart Link/HD uses industry cabling and supports long cable runs with no loss and without the need for converters. It is retrofit-friendly with DPI Labs' existing cabin management system.

For more information, visit [www.dpilabs.com](http://www.dpilabs.com) or call 909-392-5777.



## EDMO DISTRIBUTORS

EDMO Distributors of Spokane Valley, Wash., a wholesale distributor of aircraft avionics, avionics test equipment, installation and pilot supplies, announced it is supplying two new products to the aviation market: the Nulite NVG from Nulite Lighting Systems and the ELT406GPS from Emerging Lifesaving Technologies.

The 406 MHz emergency locator transmitter features built-in GPS, which simplifies installation and ensures GPS data during a power failure. The ELT406 GPS offers 110 hours of transmission time and includes a patented battery monitoring system that will notify the operator if the battery falls below 40 hours of capacity.

The system also includes a vertically and horizontally polarized antenna, which allows the transmission of the ELT signal to radiate skyward, regardless of how an aircraft comes to rest in a crash.

The new Nulite NVG brings night-vision imaging system instrument lighting to the cockpit without altering the appearance of the instrument or the panel. The open-bezel design does not utilize filters or films, so there is no color shift or degradation of daylight legibility. NVIS white LEDs allow panel brightness and dimming control with one controller.

For more information, visit [www.edmo.com](http://www.edmo.com) or call 800-235-3300.



EDMO Distributors announced it is supplying two new products to the aviation market: the Nulite NVG from Nulite Lighting Systems (pictured) and the ELT406GPS from Emerging Lifesaving Technologies.

## EMS AVIATION

EMS Aviation's new Forté AirMail provides passengers and pilots a way to access e-mail via the Iridium satellite network. Designed for business aircraft, Forté

AirMail is STC'd for 14 aircraft, including the Bombardier Challenger, Bombardier Global Express, Dassault Falcon 50, 900 and 2000, and Gulfstream G-V and G550.

The Forté AirMail suite includes the Wi-Fi interface unit (3.4 pounds), Iridium transceiver (3.3 pounds) and a



*EMS Aviation's Forté AirMail*

small antenna. The system's Wi-Fi device, which is in the cabin and connected via cable to the EMS Iridium transceiver, provides e-mail connectivity to both passengers and pilots who use BlackBerry

smart phones, iPhones, iPads and other Wi-Fi-enabled handheld devices.

Operators can manage airtime usage through several access modes, including the default mode, which connects whenever an e-mail action is detected. When the connection is active, multiple users can access e-mail simultaneously. If immediate access is required, a manual connection is possible anytime.

For more information, visit [www.emsaviation.com](http://www.emsaviation.com) or [www.forteairmail.com](http://www.forteairmail.com), or call 613-591-1043.

## EMTEQ

EMTEQ of New Berlin, Wis., announced its family of new cabin power systems designed to meet stricter FAA guidelines for safety. The systems, which include universal outlets,



European outlets and U.S. outlets, as well as outlets for Ethernet and phone/fax jacks and inverters, incorporate safety features such as plug presence detection (PPD) and ground fault interrupt (GFI).

Plug presence detection provides power to an outlet only when a plug is properly inserted in the receptacle, thereby preventing electrical shock when the outlet is not in use or is being used improperly.

The ground fault interrupter protects against electrical shorts and potential shock or electrocution from products plugged into the outlet. The inverter detects an imbalance of current and automatically shuts off output to the outlet when the imbalance reaches an unsafe level.

EMTEQ's inverters are a one-to-one system with one outlet per one inverter to provide maximum power to each outlet.

For more information, visit [www.emteq.com](http://www.emteq.com) or call 262-679-6170.

## FLIGHT DISPLAY SYSTEMS

Flight Display Systems of Alpharetta, Ga., introduced its new Airshow upgrade kit, a direct, pin-for-pin replacement for Airshow 100, Airshow 200 and Airshow 400 units. Flight Display's system gives passengers the new FD200CPU-8 moving map with worldwide satellite imagery, hardware and a new two-year warranty.

The system reuses the existing tray, therefore eliminating the need for rewiring and aircraft down time. Its new mounting tray kit includes tray adapter plate, pre-wired mating connectors and USB keyboard.

Flight Display Systems also introduced its new 22-inch widescreen Fly HD flat-panel LCD called the FD220CV

VerHD. With 1080p input capability and a native resolution of 1920 x 1080, the display is ideal for Blu-ray movies and other in-flight entertainment onboard Gulfstream, Challenger, Global Express and Falcon aircraft. It weighs 9.75 pounds and is 1.6 inches deep.

For more information, visit [www.flightdisplay.com](http://www.flightdisplay.com) or call 678-867-6717.



*Flight Display Systems' Airshow upgrade kit*

## FREEFLIGHT SYSTEMS

FreeFlight Systems of Waco, Texas, introduced a new flight data recorder-like system intended to provide low-cost recording, storage and data transfer capability with high crash survivability and extreme temperature protection.

It is made up of the memory management system (MMS), as well as a hardened memory unit, which is available in two versions. The 8 GB HMU-E is crashproof, fireproof to 1,000 degrees for one hour, waterproof and capable of withstanding rifle and automatic weapons fire. The 2 GB HMU Lite is able to withstand handgun fire only. Both models use a standard USB 2.0 interface and are compatible with FreeFlight Systems' memory management system.

The MMS is a lightweight, rugged, programmable unit that can record, store and transfer aircraft information provided by the pilot or other aircraft systems, such as onboard cameras, microphones and sensors.

The company's new FreeFlight RANGR 978 MHz (lite) ADS-B data radio, a component of FreeFlight Systems' ADS-B Out package (978 MHz), offers RS-232 capability



*FreeFlight Systems' RANGR FDL-978TX*

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and meets TSO-C154c. FreeFlight Systems expects its 1205 Beta 3 remote-mount WAAS/GPS receiver for Class 3 aircraft to receive TSO-C145a certification in fourth quarter 2010.

For more information, visit [www.freeflightsystems.com](http://www.freeflightsystems.com) or call 254-662-0000.

## GARMIN

Olathe, Kan.-based, Garmin showed off Aera, its new line of dual-duty GPS aviation portables that take pilots from flying to driving.

The Aera 500's 4.3-inch QVGA wide-format, touch-screen displays detailed chart-style shaded mapping, as well as extensive terrain and aviation databases, to help pilots visualize the aircraft's flight path in relation to nearby nav-aids, terrain, SUAs and obstructions. A database-driven terrain advisory feature offers TAWS-like color coding and pop-up alerts for possible obstructions or ground-proximity conflicts.

On the ground, Aera offers GPS capability and preloaded City Navigator NT street mapping. Operating much like Garmin's Nüvi line of touch-screen auto navigators, the Aera 500 offers voice-guided, turn-by-turn directions with text-to-speech audio technology that calls out streets by name.



Garmin's Aera 560

The built-in Bluetooth supports wireless hands-free calling with compatible mobile phones.

The Aera 510, 550 and 560 add more features, from Nexrad imaging support and XM WX satellite weather capabilities to higher-resolution displays, Garmin SafeTaxi charts and more.

For more information, visit [www.garmin.com](http://www.garmin.com) or call 913-397-8200.

## GLOBAL AVIATION TECHNOLOGIES

Global Aviation Technologies of Wichita, Kan., introduced the Xcelight Series 2 overlay panel. Designed to meet the needs of single-engine pistons to heavy business jets to transport category aircraft, the Xcelight Series 2 overlay panel offers a more durable, reliable and cost-effective alternative to OEM replacement panels.

The Xcelight Series 2 overlay panel utilizes a patent-pending process that allows all text and panel color to be placed under the surface, making the panels easy to clean and maintain, as well as resistant to fading.

The Xcelight Series 2 overlay panels can be configured with an internal or external lighting source and are compatible with 5 VDC, 28 VDC or 115 VAC power. The panels are a plug-and-play replacement for existing OEM overlay panels, simplifying the installation process.

Initial certification of the new overlay panels will be for the Learjet 30 series aircraft. The Approved Model List STC will be expanded to incorporate additional aircraft models in the future.

For more information, visit [www.globalaviationtechnologies.com](http://www.globalaviationtechnologies.com) or call 316-425-0999.

## HONEYWELL

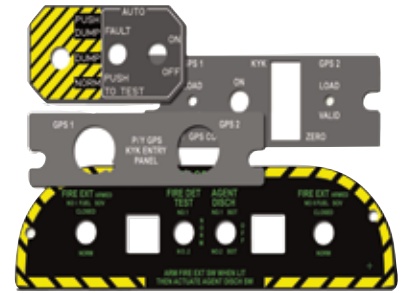
Honeywell introduced an LCD display upgrade for the Primus Elite designed for legacy aircraft equipped with 8-inch by 7-inch or 8-inch by 8-inch cathode ray tube displays. The new upgrade saves seven pounds per older display.

Honeywell also announced it expects STC approval in late August 2010 for Ovation Select, the company's cabin management system.

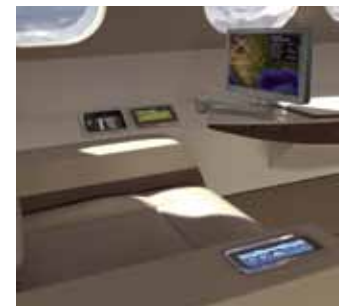
Scalable from general aviation aircraft through air transport category business, Ovation Select incorporates all the digital interfaces needed to connect high-speed satellite communications, as well as consumer electronics, including iPods and other MP3 players, Apple TV and gaming systems. The modular, lightweight system distributes surround-sound audio, high-definition (1080p) video and digital communication throughout the cabin.

With an easy-to-use, icon-based touch screen, passengers are able to control lighting, seats, temperature and window-shade settings. The system's media interface unit hosts the optional JetMap3HD moving map application with high-resolution, 3-D moving maps, news, weather, sports and business updates.

For more information, visit [www.honeywell.com](http://www.honeywell.com) or call 602-365-3099.



Global Aviation Technologies' Xcelight Series 2 overlay panel



Honeywell announced it expects STC approval in late August 2010 for Ovation Select, the company's cabin management system.

**INTERNATIONAL COMMUNICATIONS GROUP (ICG)**

International Communications Group (ICG) of Newport News, Va., announced that Sora, which provides Iridium and SwiftBroadband voice and data services for business aircraft, has received STC certification. ICG and Cobham jointly developed the Sora package, which integrates ICG's NxtLink 220A Iridium communications system and NxtMail server with a Cobham's Inmarsat SwiftBroadband terminal.

The combination enables Wi-Fi devices, such as smart phones and laptops, to operate on the high-speed SwiftBroadband channel. The NxtMail server's local wireless access point allows Wi-Fi-capable smart phones and other personal devices to send and receive e-mails and browse the Web.

With the system, everyone onboard has access to worldwide voice service. Additionally, the flight crew can utilize a dedicated Iridium channel for AFIS/ACARS safety messaging and also access a priority voice channel for air traffic management and flight operations personnel.

For more information, visit [www.icg.aero](http://www.icg.aero) or call 757-947-1030.



ICG's NxtLink 220A Iridium communications system

**KANNAD**

Kannad, based in Guidel, France, which designs and manufactures emergency locator transmitters, introduced two new personal locator beacons: the XS-4 GPS and the XS-ER GPS extended-range professional PLB. Both include built-in GPS for pinpoint locating during search-and-recovery efforts.

The compact, palm-sized fourth-generation XS-4 GPS weighs one-third of a pound and features a 24-hour minimum operational life and flashing LED Morse SOS signal. The rugged XS-ER GPS extended-range professional has a 48-hour minimum operational life, is fully buoyant, and features a field-replaceable battery.

Both the XS-4 GPS and the XS-ER GPS comply with international standards and meet U.S. and European Union approvals. The units, which operate on the global Cospas Sarsat 406 MHz search-and-rescue satellite communications system, transmit two signals simultaneously: on the global 406 MHz satellite system and over 121.5 MHz.

Customer registration enables



Kannad's XS-ER GPS

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Garmin GNS 430W



Garmin GPS 696

[www.usaviationgroup.net](http://www.usaviationgroup.net)  
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CRS# U9FR750K

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each PLB to broadcast a unique identification signal providing ID information about the pilot. A five-year warranty comes with each personal distress beacon.

For more information, visit [www.kannad.com](http://www.kannad.com) or call 509-468-1738.

## MID-CONTINENT INSTRUMENTS

Mid-Continent Instruments of Wichita, Kan., and Van Nuys, Calif., announced that its MD41-1048, an annunciation control unit specifically designed for the newly announced Garmin HTAWS function of the GNS 430W and GNS 530W navigator, is TSO-approved.

Mid-Continent Instruments' newest battery system, the MD420-1 emergency power supply, also received TSO approval. The 2.5 amp-hour battery powers electronic flight displays, standby instruments and other critical avionics systems.

Mid-Continent is seeking an Approved Model List (AML) STC for Part 23 aircraft for its new TSO-approved lithium

battery, the MD835 emergency power supply.

The MD835 uses lithium nanophosphate technology, which reduces the battery's weight to 4.8 pounds, reduces maintenance

costs with a bi-annual capacity check rather than the traditional 12-month, and increases life expectancy to 10 years. The MD835 can be used as a direct replacement for older L-3 Avionics PS-835 units.

Mid-Continent Instruments now offers repair, overhaul and exchange capabilities for Bendix/King KAP and KFC autopilots and accessories, ARC 400A/B autopilots and accessories, and most Collins Pro Line I and II avionics and accessories.

For more information, visit [www.mcico.com](http://www.mcico.com) or call 316-630-0101.

## PS ENGINEERING

PS Engineering of Lenoir City, Tenn., announced an updated version of its PMA6000 audio selector panel, as well as a variety of improvements to its flagship audio panel, the PMA8000B.

Smaller and lighter than its predecessor, the PMA6000B uses a single, 44-pin connector for all aircraft and intercom interfacing, simplifying the installation. The unit incorporates PS Engineering's "Set-it and Forget-it" manual VOX circuits, with a single knob controlling four individually gated microphones, thereby keeping cabin noise to a minimum when any one person speaks.



PS Engineering's PMA8000BT audio control panel

For the PMA8000B, PS Engineering added a monitor mode, multiple music muting modes, user-selectable phone sidetone, and selectable music for the pilot while in ISO mode. The monitor mode allows the pilot to designate one com radio as a primary audio source. When the primary radio becomes active, the secondary com radio temporarily mutes.

The company's new PMA8000BT audio control panel adds Bluetooth connectivity to smart phones for streaming music to the audio panel for distribution to passengers. It also allows the pilot and anyone using the intercom to connect to the cellular phone from the audio panel.

For more information, visit [www.ps-engineering.com](http://www.ps-engineering.com) or call 865-988-9800.

## ROCKWELL COLLINS

Rockwell Collins announced the Airshow 4000 with Version 2 software for business aircraft is now available. The company completely refreshed the look and feel of all the features and included updated graphical images.

The maps offer greater details and more dynamic colors, as well as a realistic day and night view on all 3-D maps. Other feature updates include a 3-D time zone globe, 3-D



Version 2 software is the newest upgrade to the Airshow 4000 3-D moving map display from Rockwell Collins.

relative location indicator and a redesigned flight instrument panel, ticker and videos.

New features provide a head-up display for the cabin, as well as location-triggered, point-of-interest panels with captions, images and stats for more than 300 cities.

Customers have three options for upgrading to Version 2: a service bulletin installation at a service center; an upgrade via rental or exchange; or trading in for a new unit.

For more information, visit [www.rockwellcollins.com](http://www.rockwellcollins.com) or call 319-295-1000.

## ROSEN AVIATION

Rosen Aviation of Eugene, Ore., highlighted several new products for business aviation, including a VIP controller, 5.8 GHz wireless headphones and transmitter, and a Blu-ray

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## NEW PRODUCTS

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player. The VIP controller, which allows operators to easily manage cabin functions, can be programmed to control source equipment, from maps and DVD players to cabin lighting and personal devices such as iPods.

To go along with the new controller, Rosen's Ultra-CMS cabin management and audio video entertainment system also received a new graphical user interface. The Ultra-CMS digitally distributes audio and video entertainment channels and cabin management controls throughout the aircraft via a high-speed data network. The fully customizable touch-screens can be configured specifically to control the cabin equipment installed on the aircraft.

Rosen Aviation's new wireless headphones include three audio inputs and incorporate digital audio transmission. The transmitter weighs .53 pounds and offers a 65-foot operating range.

The company is also offering a new slot-loading Blu-ray player, which can be mounted in a variety of orientations.

For more information, visit [www.rosenaviation.com](http://www.rosenaviation.com) or call 541-342-3802.



*Rosen Aviation's VIP controller*

## SANDEL AVIONICS

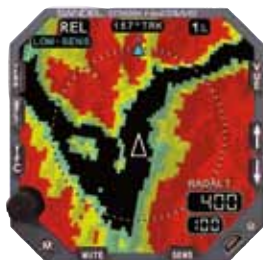
Sandel Avionics' new ST3400H HeliTAWS is a Class A HTAWS and mission safety system designed to enhance rotorcraft safety beyond the requirements of FAA TSO C194 governing HTAWS.

Rugged and self-contained, the 3-ATI system serves as a search-and-rescue EMS and special-missions device supporting both Class A and B functionality. Sandel is based in Vista, Calif.

Derived from Sandel's ST3400 Class A TAWS for fixed-wing aircraft, the new system incorporates an HTAWS computer, terrain and obstacle databases, nuisance-alert suppression and a high-resolution display in a

single compact unit. It can replace an existing radar altimeter indicator, simplifying installation in both retrofit and forward-fit applications.

The new HeliTAWS incorporates a variety of helicopter-specific features, such as ultra-high, 3 arc-second (300-foot



*Sandel Avionics' ST3400H HeliTAWS*

grid) terrain resolution, on-demand NVIS without affecting daylight visibility, radar altitude display, traffic display overlay and a comprehensive obstacle database. The system, which is Part 27- and Part 29-certified, meets DO-160F helicopter vibration standards and has a mean time between failure rate of more than 10,000 hours.

For more information, visit [www.sandel.com](http://www.sandel.com) or call 760-727-4900.

## SHADIN AVIONICS

Shadin Avionics of St. Louis Park, Minn., introduced its new Avionics Interface System (AIS) Configurable Converter Platform (CCP). Designed to provide easy systems integration and data conversion, the unit's flexible hardware and software platform modules offer a customizable solution with lower development costs and shorter lead times.

Shadin Avionics, together with Technical Data Analysis of Falls Church, Va., also announced [www.flightframe.com](http://www.flightframe.com) is now online. The website allows general aviation operators to track flights, aircraft usage and airframe trend monitoring data, as well as analyze this data at [www.flightframe.net](http://www.flightframe.net).

When the TrendBox200 flight recorder is combined with flightframe.net's Web-based analysis capabilities, airframe trend monitoring can be used to assess the state of the airframe structure. It also can help flag safety issues, tailor maintenance to actual usage, offer design enhancements

based on known operation, and

provide insight into in-service events. In

addition to airframe trending, the system

contains GPS capabilities to enable flight tracking.

For more information, visit [www.shadin.com](http://www.shadin.com) or call 952-927-6500.



*Shadin Avionics' new Avionics Interface System (AIS) Configurable Converter Platform (CCP)*

## SOUTHEAST AEROSPACE

Southeast Aerospace of Melbourne, Fla., the U.S. distributor for Trig Avionics, announced the release of Trig's newest compact Mode S transponder: the TT22. With 250-watt nominal output, the TT22 is a higher-powered version of Trig's TT21 transponder.

Based on the design and technology of the previous model, the TT22 qualifies as a Class 1 Mode S transponder with FAA/EASA approval for IFR and VFR flight. The TT22 weighs just over one pound and can be installed in a standard 2 1/4-inch cut-out.

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*Southeast Aerospace is now distributing Trig's TT22 Mode S transponder.*

In addition to the release of the new transponder, traffic information service now is a standard feature on all Trig transponders. The traffic upgrade feature is compatible with most Garmin handheld GPS for display of the traffic information service. The TIS feature has been ground tested and real-time flight tested by Trig and Southeast Aerospace.

For more information, visit [www.seaerospace.com](http://www.seaerospace.com) or call 321-255-9877.

### TECHNISONIC INDUSTRIES LTD.

Technisonic Industries of Mississauga, Ontario, Canada, announced it is expanding its line of audio control products with the new A711L.

Optimized for communication-intensive situations, such as law enforcement, air ambulance, tactical fire coordination and similar missions, the fully illuminated unit features specially designed, highly tactile controls with vertical alignment to improve night operations and "blind operation."

The A711L matches the TDFM-7300 5-radio FM system from Technisonic, and it provides five FM and two AM transmit positions, plus a PA system, which works with



*Technisonic Industries' A711L*

the new remote Powersonix PA systems without any additional control units.

The A711L's fully floating inputs and outputs provides significant

reductions in ground loop noise, often as much as 30 dB (1,000 times) over conventional systems. Each control supports two crew members and four passengers, and systems can be chained together to form complex networks with multiple ICS loops.

An ANVIS/A NVG-compliant version is available.

For more information, visit [www.til.ca](http://www.til.ca) or call 905-890-2113.

### ULTRA ELECTRONICS FLIGHTLINE SYSTEMS

Ultra Electronics of Victor, N.Y., announced it has nearly completed the certification of the AuRACLE CRM2120, a digital engine power management system designed for the general aviation OEM and retrofit markets.

A glass-panel retrofit replacement for primary engine instrumentation, the AuRACLE CRM2120 will be certified as primary engine instrumentation and approved for use on light-twin aircraft. Installation will be based on an STC/AML for all Cessna, Piper and Beechcraft light-twins.

The system features a patented dual-display that provides the pilot with all critical gauges at a glance on the upper screen; a fuel computer and unique fuel-leaving process that lowers average fuel costs by 25 percent; a data recorder; a redundant back-up monitoring system; and a patented engine interface unit, which can lower installation costs by installing on the hot or cold side of the nacelle firewall.

For more information, visit [www.ultra-fei.com](http://www.ultra-fei.com) or call 585-924-4000.



*Ultra Electronics announced it has nearly completed the certification of the AuRACLE CRM2120.*

### UNIVERSAL AVIONICS SYSTEMS CORP.

Universal Avionics of Tucson, Ariz., unveiled its new stand-alone AHS-525 attitude heading reference system. The solid-state AHS-525 provides stable and accurate aircraft analog and digital pitch, roll and heading measurements.

The AHS-525 incorporates microelectromechanical systems-based technology, a system that combines the computational ability of microelectronics with the acuity and control of microsensors and microaccelerometers.

This solid-state construction, with no internal movable parts, is designed to reduce downtime and increases the MTBF rate.

The system integrates with flight deck displays, flight control systems, flight management systems, weather radar, terrain awareness and warning system, flight data recorder and other avionics systems. When interfaced with Universal's electronic flight information system, data display and control is managed directly through the EFI-890R flat-panel displays, without the need for additional heading control panels cluttering the flight deck.



*Universal Avionics' AHS-525 attitude heading reference system*

The AHS-525 features digital, analog, discrete and synchro inputs and outputs to support a variety of interfaces on Part 23 and Part 25 aircraft. FAA TSO is expected in October.

For more information, visit [www.uasc.com](http://www.uasc.com) or call 520-295-2300. □