

Product showcase

Laser marking system

PTG Industries' FiberTower Series Q-Switched Fiber Laser Marking Systems are a safe, low-cost, effective alternative for Nd:YAG lasers commonly used for direct part marking applications. They feature a Q-switched fiber laser, scan head, peripheral component interconnect control board, and graphical-based software configured for each application—also offered in a handheld system. The systems require a low-voltage power source. Turnkey workstations with a programmable Z axis, rotary indexer, or XY table are standard. Marking and cutting applications include indium tin oxide removal, integrated circuit chip package marking, 2-D symbologies and linear bar codes, and optical character recognition code marking. The system can process materials such as stainless steel, aluminum, carbide, polycarbonate, titanium, nickel, PVC, plastics, rubber, chrome, baklit and radio buttons, and aerospace cockpits.

For more information, circle 115



Synchronized data acquisition

Saelig is offering the DAQ-2500X four-channel, 16-bit, 100 KS/s simultaneous sampling device that combines Fiberbyte's USB-inSync technology with real-time I/O. The USB-synchronizing technology allows the device to be expanded with additional modules to yield a possible 16 inputs with 1 MB/s data throughput, as well as programmable digital I/O and advanced triggering functions. Control center software enables programmers to integrate the system with any software package running on **Microsoft** Windows 2000, NT, or XP. The system is suited for data-gathering applications requiring a large number of channels such as airframe vibration measurements, fuel-cell research, fatigue or endurance testing, shock testing, manufacturing process and parts fabrication logging, sound/noise measurements, and engine testing.

For more information, circle 116



Radar scan converter

Advantage-Zeta from **Curtiss-Wright Controls Embedded Computing** is a radar scan converter that combines radar signal acquisition and scan conversion on a single peripheral component interconnect (PCI) card. The PCI card frees the PCI bus and host computer while simplifying system architecture. It supports up to three analog video inputs, with one video input selected for acquisition. It also supports up to eight digital radar inputs, which may be mixed with the selected analog video. A range of radar input options is supported, including ACP/ARP, RADDS, serial, and parallel azimuth options.

For more information, circle 117



High-power capacitors

Cornell Dubilier's high-power RF capacitors provide high-frequency operation into the low gigahertz range, and high-temperature operation up to 200°C. The units are metal clad

in silver-plated metal cases to enable ultra-low inductance terminations and heat spreading for high-power operation. Mica and Teflon dielectric systems assure low equivalent series resistance to greater than 1 GHz and high ripple current capabilities and stability in subminiature sizes. Voltage ratings are from 300- to 1000-V dc, and capacitance is from 1 to 1500 pF in tight tolerances from ± 0.5 pF.

For more information, circle 118



Linear gauge sensor

The model GS-1613 linear gauge sensor from **Ono Sokki** is a compact, lightweight device that can be installed in current production equipment. The gauge measures dimensions, thickness, curvature, eccentricity, displacement, height, depth, flatness, variation, runout, roundness, distortion, deflection, and position. It uses linear glass scale technology, which helps maintain accuracy throughout its entire range.

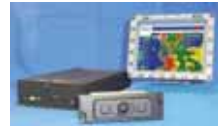
For more information, circle 119



Real-time weather

DAC International's CPU640 system displays continual broadcast satellite weather on the Multi-Function Display 640 from **Universal Avionics Systems**. The system hosts either the XMWX Satellite Weather or the WSI InFlight Weather product. The normal outputs from the XMWX or WSI receivers are routed into the system, which provides computer power to run the weather application software and then converts the video output to conform the image to the proper format for display on the MFD-640 display. The device also accepts GPS information on the ARINC 429 bus to be used by the weather software. Included in the system is a mounted cockpit video control panel for operating the weather application software.

For more information, circle 120



Vibration testing

The DS-2250 shaker from **Thermotron Industries** is a 2250-force-lb vibration system for applications including military transportation testing, avionics/aerospace vibration testing, and stress screening. The system features a 12-in-diameter magnesium armature that provides acceleration levels up to 100 g. A dynamic centering system with optical sensors ensures that the armature remains centered during travel. The air-cooled system is compatible with environmental test chambers. It supports payloads up to 500 lb and operates at speeds up to 100 in/s. VCS-3200 software, which runs off Thermotron's PC-based vibration control system platform, features sine, random, shock, resonant search and dwell, data acquisition and playback, and random-on-random and sine-on-random capabilities.

For more information, circle 121

