**3D Vision Software**

Cognex 3D-Locate software is designed to deliver accurate, real-time 3D position information to improve vision performance in a wide range of applications, such as manufacturing automation equipment or camera applications that would benefit from more information than a 2D approach can offer. In addition, the software can be used in robot-mounted, single or stereo camera guidance systems; work cells with multiple, fixed-mount cameras, to eliminate mechanical fixtures; and dimensioning, sorting, and picking systems on conveyor lines.

The Cognex 3D-Locate software uses multiple sets of 2D features found in Cognex’s geometric-pattern-matching tool, PatMax, to determine an object’s 3D orientation. The application’s performance is enhanced by calibration tools that can be adjusted for optical distortion and camera position, and are designed to synchronize cameras with moving elements, such as robot grippers.

For more information visit http://www.cognex.com.

**Video Wall**

Gefen announced the availability of its Video Wall Controller, a product designed to enable high-definition imagery spread across four displays stacked in a $2 \times 2$ configuration.

The Video Wall Controller outputs high definition video up to 1080p from a single PC or video source using DVI output. When used with computer applications, the product supports resolutions up to $1,920 \times 1,200$. One DVI port is split to four DVI outputs connected to the four HD displays. Video can be spread across all four displays or just three, two, or one display.

Independent bezel adjustments control borders when the image is spread across multiple displays, allowing users to crop and relocate each border to maintain image continuity. Other features include built-in noise reduction, automatic scaling to the displays’ native resolution, and masking control. Image adjustment features are accessed through the unit’s front panel buttons and on-screen display menu. An RS-232 port and remote control are included.

For more information visit http://www.gefen.com.

**Whole-Home High Definition**

Maxim Integrated Products and Celeno Communications are collaborating to offer a whole-home, wireless, high-definition reference design that can be embedded into HDTVs, gaming consoles, digital video recorders, laptops, Blu-ray players, set-top boxes, and home gateways.

Based on the Maxim MG3500 H.264 encoder/decoder, the MAX2828 802.11 transceiver, and the Celeno CL1300 Wi-Fi implicit beamforming, multiple-input and multiple-output system on chip, the reference design is designed to enable wireless, whole-home HDMI distribution to flat-panel TVs. Manufacturers can use the reference design to build devices that distribute full-HD content wirelessly to remote HDTV displays.

The companies are offering two reference design variations: embedded TV modules for integration into TVs, and HDMI adaptor modules for standalone, aftermarket products.

For more information visit http://www.celeno.com.

**Three-Dimensional, Holographic Meetings**

Digital Video Enterprises unveiled it’s DVE Immersion Room, which has won the Frost & Sullivan 2009 Global Conferencing Telepresence Product of the Year Award. The Immersion Room is designed to display high-definition, 3D holographic images of people for videoconferencing.

The Immersion Room renders life-size images of people standing and walking about
in the 3D physical space of the meeting room. The rendered images, which can be up to 9 feet wide, appear to float in midair and don’t require users to wear special glasses.

For more information and to view a video of the room during a live conference visit http://www.DVEtelepresence.com.

**Fashionable Tech Gadgets**

The Atomic 9 BT Bluetooth wristband speakerphone lets users answer calls by directly talking into the speakerphone wristband. Supporting a range of 30-feet from a mobile phone, the device can make calls with mobile phones that support voice dial. Other features include spoken caller ID, an alarm when the user moves more than 30 feet away from the mobile phone, vibrating or beep alert options, and built-in echo- and noise-cancellation algorithms. The wristband can play music from phones and other devices that support A2DP.

In addition to offering the BT Bluetooth wristband, Atomic 9 offers other mobile lifestyle products, such as the Grunge Buds, which are iPod headphones featuring Swarovski crystals and styles such as skulls, angel wings, and frosted cats.

For more information visit http://www.atomic9.com.

**New Animation Tool Version**

Toon Boom Animation released Animate 2, a new version of the company’s software that is designed to create traditional, digital, cut-out, and Flash-style animation.

New features include distribution of character parts to layers, adjustment of velocity on multiple character parts, creation of richer-looking ambiance, SWF export with effects, direct import of scanned drawings, and new text capabilities. Animate 2 lets users draw or import scanned drawings and colors, and animate, synchronize sound, set camera moves, apply effects, and render projects in a variety of output formats. Animate is compatible with Adobe products and animation techniques.

For more information visit http://www.toonboom.com/animate/.

**Interactive Pen Display**

Wacom introduced the Cintiq 21UX, an interactive pen display designed to capture artist strokes and pen movements with 2,048 levels of pressure sensitivity. Rear-mounted touch strips are placed for fingertip access while working. Each touch strip has an accompanying thumb-controlled touch-strip toggle button that controls up to four different user-assigned functions per application, such as zoom, scroll, brush size adjustment, and canvas rotation.

The Cintiq 21UX uses Wacom’s tip-sensor technology that reportedly offers users near-zero (one-gram) starting pressure. The Cintiq 21UX stand allows users to recline the pen display at any angle between 10 degrees and 65 degrees to match the user’s ideal working posture. In addition to reclining, the Cintiq 21UX can be rotated up to 180 degrees in either direction to take advantage of natural drawing movements or offer a different viewing angle.

The device ships with Corel Painter Sketch Pad for sketching and painting by hand, Nik Color Efex Pro 3.0 WE6 for selectively applying lighting and photo enhancements with the pen, and Wacom Brushes 3.0 for 81 customized brushes for use with Adobe Photoshop CS+ and Photoshop Elements 4+.

The Cintiq 21UX (DTK-2100) costs $1,999. For more information visit http://www.wacom.com.

**Original Media for Gamers**

Original Media for Gamers provides game enthusiasts with a central media hub for information and entertainment. OMFG offers listeners shows from local and international on-air personalities. The lineup airs a minimum of at least one unique broadcast every day and had 12 weekly programs scheduled to air upon the site’s launch. Users can download episodes from online archives, or have them automatically uploaded to their home computers or handheld devices.

For more information visit http://www.omfg.fm.