



MULTITOUCH LTD. UNVEILS PLATFORM FOR LARGE MULTITOUCH LCD DISPLAYS

MultiTaction® Delivers True Multitouch Functionality to Any Large LCD Display Through Integrated Optical Sensor Boards

CES 2011 BOOTH #15119, CENTRAL HALL

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LAS VEGAS, NEVADA - MultiTouch, Ltd., developer of the world's first modular multi-touch LCD screen for large-scale displays, today announced the launch of a new platform for large-scale multitouch LCD displays, MultiTaction®, which will enable display developers to create multi-user, multitouch displays for screens ranging from 32 to 100 inches and beyond. MultiTaction builds on MultiTouch's patented imaging technologies for multitouch displays, and provides the world's most advanced set of touch capabilities. MultiTouch will demonstrate the MultiTaction platform at CES 2011 in its booth #15119 in the Central Hall of the Las Vegas Convention Center. MultiTouch will showcase a 55-inch full-HD demonstration display that is eight inches deep, running the MultiTaction platform, at CES 2011. Further information and a white paper on MultiTaction can be found at www.multitaction.com.

MultiTaction's most significant advancement is that its optical multitouch sensor technology can be integrated easily into integrated circuit (IC) boards, creating a modular camera system that can scale up to 100-inch high-resolution displays. Whether professional, digital signage, or consumer displays, MultiTaction can be integrated seamlessly so that developers have slim design displays that are both high-resolution - up to Quad HD/4K - and scalable and stackable. With frame rates at more than 200 frames per second, MultiTaction offers the industry's most responsive multitouch system.

Among other breakthrough features, the MultiTaction platform eliminates the single most troublesome characteristic of optical touch displays, which is sensitivity to external lighting, such as sunlight, spotlights, and other ambient light sources. MultiTaction incorporates hybrid reflection/shadow tracking technology for smooth performance in any environment. MultiTaction also provides smooth edge-to-edge front glass on the display unit, which is a first for any multitouch display.

MultiTouch's Cornerstone software elegantly translates touch into the programming experience, creating multitouch displays that can read unlimited touch points, including hands, fingers, fingertips, 2D Markers, and real-life objects. MultiTouch Cornerstone software allows for flexible multi-platform application development, including augmented reality.

MultiTaction also combines a number of in-device features, including Computer Vision Through Screen (CVTS), which is the hallmark of MultiTouch's displays, as well as Integrated Backlight Emitter Camera (IBEC) modules; Matrix Tracking System (MTS), Extensible Hybrid Tracking Engine (EHTE) and Multi-Format Tracking Output (MFTO). MultiTaction is optimized for mass production by OEM manufacturers.

“In the near future, multitouch features will be built into all large-scale displays, and developers will be able to create rich multitouch features much in the same way that one creates touch applications for smartphones,” said Petri Martikainen, CEO of MultiTouch Ltd. “Our vision is to extend the value of multitouch to a broad category of professional display developers, manufacturers, and application providers, with the view to eventually moving downstream to the consumer channel. MultiTaction brings multitouch to the masses.”

Key features of MultiTaction include:

Computer Vision Through Screen

- MultiTouch’s milestone technology; the first commercial implementation of Rear Diffuse Infrared illumination through an LCD panel
- Perpendicular imaging enables details to be seen simultaneously with unlimited touch points, hand tracking, and marker tracking
- Smooth edge-to-edge front glass on the display unit; a first for any multitouch display

Integrated Backlight Emitter Camera (IBEC)

- white LEDs for backlighting
- infrared LEDs for diffuse illumination
- infrared cameras
- modularity enables thin depth for all sizes; enables any large size LCD to be multitouch-enabled, from 32-100+ inches

Matrix Tracking System

- interfaces with more than 100 individual cameras on IBEC modules in the planar backplane matrix, generating a single image for tracking
- superfast frame rate, at more than 200 frames per second
- hybrid tracking mechanism, so that every other frame with infrared looks at reflections; every other frame without infrared looks at shadows
- immunity to external lighting conditions
- synchronized with infrared emitters

Extensible Hybrid Tracking Engine

- incorporates embedded Cornerstone tracking engine
- enables unlimited number of finger points, fingers, hands, real-life objects, optical markers (fiducials)
- first true multi-user multitouch software engine
- optimized for augmented reality applications

Multi-Format Tracking Output

- supports standard formats for tracking outputs, such as TUIO (with extensions for finger, hand and marker tracking); Windows 7 Native touch driver, and XML stream
- provides powerful proprietary format for C++/OpenGL development

Introduced to the global market in 2009, the MultiTouch Cell product family has been sold in more than 30 countries, and installed in some of the most prominent international venues, including the recent Wall of Chile installation at the Chilean

Pavilion at the Expo 2010 Shanghai China; the 'One Road Interactive' exhibit at the National Museum of Australia, and the Graffiti Bar installation in Tokyo. The Cell products are used for broadcast, retail, advertising, exhibitions, museums, education and design.

For more information, please visit www.multitouch.fi and www.multitaction.com, as well as the MultiTouch YouTube channel at youtube.com/multitouchfi, and twitter.com/multitouchfi for further MultiTouch updates.

About MultiTouch Ltd.

MultiTouch is a leading developer of interactive display systems, based on proprietary software and hardware designs. The company is headquartered in Helsinki, Finland, with U.S. offices in Santa Clara, California and New York City. Its systems are currently in use in more than 30 countries around the globe. For more information, please visit www.multitouch.fi.

EDITOR'S NOTE: If you would like a color photograph of Petri Martikainen, CEO of MultiTouch Ltd., or MultiTouch product or installation shots, please contact Chris Pfaff on +1-201-218-0262 or chris@chrispfafftechmedia.com

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