PixArt News

PixArt Partners with Pantech to Offer 3-D Motion Gestures in Their Latest Smart Phone

Motion gestures allow control of smart phones with simple hand movements

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PixArt Imaging Inc., a leading provider of human-machine interface (HMI) solutions, today announced a design engagement with Pantech to offer a first of its kind gesture motion capability for their IM-A880S (VEGA LTE-A) smart phone. The phone will feature PixArt Imaging's Gesture Sensor (PAC7620) that provides touch-free user interaction with phone to provide an easy and intuitive user experience.

The invisible IR image-based PixArt PAC7620 Gesture Sensor creates a three-dimensional gesture space extending 6 inches above the phone to allow the user to seamlessly interact with their phone without the need to hold or touch the phone. The PAC7620 provides hands-free user control of the phone through simple hand gestures.   The nine user gestures (up, down, left, right, wave, forward, backward, clockwise, and counterclockwise) allow intuitive interaction with the phone for gesture enabled applications.   This can be an ideal interaction for hands-free or gloved operation if the user's hands are occupied or too dirty to touch the phone.

The PixArt Gesture Engine addresses the shortcomings of existing human-machine interaction by enabling intuitive, simple gestures for users to easily control their phone.   Traditional touch navigation requires full user attention and can be limited by the user's inability to use the touch screen at the time.

"Our company vision is to develop innovative human/machine interface solutions with our advanced imaging technologies.   Providing the capability for users to easily operate their phones with simple hand movements creates a smooth, intuitive interaction for users to heighten their enjoyment of advanced technologies," said Dennis Lo, President, PixArt Imaging USA.

"Our IM-A880S (VEGA LTE-A) smart phone will lead the way with the new trend in user gestures for mobile phones.   We think this innovative technology will expand the capabilities of our advanced phones to show customers what the future of mobile computing and interaction can be.   With the IM-A880S (VEGA LTE-A), we can showcase the advanced user gestures that will demonstrate the commitment that Pantech has to innovate in the mobile market', said Pantechs' representative.

Computing tasks ranging from simple to complex can now be accomplished with natural hand movements. Currently, the Pantech IM-A880S (VEGA

LTE-A) user interactions enabled by the PixArt Gesture Engine include:

- Basic navigation (Up, Down, Left, Right) for browsing or scrolling Web pages
- Zoom In/Out function for pictures or 3-D space movement
- Scroll gestures for forward and reverse movement and volume control through video or music
- Motion detection for phone wake-up or silence applications

The PixArt Gesture Engine integrates easily into existing smart phones designs with its small form factor and standard I^2C interface. Operators can customize the gesture engines capabilities, creating their own user interaction and application usage to best fit their user's requirements and expectations. Additionally, the PAC7620 provides better and more gestures recognition in comparison to simple photodiode approaches.   The PAC7620 also has lower power consumption and latency when compared to conventional cameras solutions paired with software gesture recognition.

For more information on the PixArt imaging gesture products, please contact your local PixArt representative or through our website, www.pixart.com.

About PixArt Imaging Inc.

Headquartered from Hsin-chu, Taiwan, with offices in Silicon Valley, Japan and Malaysia, PixArt Imaging Inc. is a sensing and navigation company offering a broad selection of sensors and technologies to support today's complex human-machine interface designs. Founded in July 1998, PixArt specializes in CMOS image sensors, capacitive touch controllers and related imaging application development. PixArt has extensive experience in mixed-signal image processing design and systems development and is dedicated to developing novel technologies to bridge the human-machine interface barrier.

About Pantech

Pantech Co., Ltd., is one of Korea's top three mobile handset makers. Pantech has received wide-ranging industry recognition for its innovative handset designs, and has also introduced a significant number of breakthrough technologies in the mobile phone industry. Established in 1991, Pantech collectively has approximately 2,000 employees and 3 regional sales offices worldwide. For more information on Pantech, please visit www.pantech.com.

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