Sensics Supplies NASA with HMD-Based Panoramic, High Resolution Telepresence System

Robonaut project benefits from live video streams transmitted from a camera array over low-bandwidth network and presented inside 150-degree stereoscopic head-mounted display from Sensics.

Baltimore, MD (PRWEB) February 26, 2008 — Sensics, the panoramic head-mounted display company, reported today that it successfully completed the delivery of a Phase II SBIR project for NASA, which included a unique panoramic, high-resolution telepresence system based on the piSight HMD line.

Deployed last year at the Lyndon B Johnson Space Center for the Robonaut, a humanoid robot developed by NASA and DARPA, the Sensics system includes a panoramic, high-resolution camera array and the piSight™ panoramic, high-resolution head-mounted display.

The combined camera plus piSight system will serve as the "eyes" of the Robonaut. NASA's Robonaut system can work side by side with humans, or alone in high-risk situations. Telepresence uses virtual reality display technology to visually immerse the operator into the robot’s workspace, facilitating operation and interaction with the Robonaut.

From of the broad piSight product line, NASA selected the 150-43b model which is 150 degrees wide, 60 degrees tall, has strong stereoscopic overlap and displays 6 million full-color pixels per eye. The system is integrated with a precision six degree-of-freedom motion tracker. Video acquired through the camera array is compressed, sent over a low-bandwidth communications network and then displayed in full stereo inside the HMD.

"Since its commercial launch last year, the piSight line of panoramic HMDs has been selected by many demanding customers for a variety of simulation, training, design and research applications," said Dr. Larry Brown, president and founder of Sensics. “We are very pleased to add NASA to our growing list of satisfied customers.”

About Sensics
Sensics, Inc., the panoramic head-mounted display company, offers a comprehensive line of panoramic, upgradeable, high-definition head-mounted displays. Unlike competing HMDs that feature narrow field of view, limited resolution or both, Sensics offers fully-immersive displays and up to 10 million pixels per eye. Over 35 different upgradeable models are offered, designed to meet a wide range of performance and budget specifications. Sensics products are used worldwide to enable new and improved virtual reality applications for training, virtual prototyping, visualization and remote presence. For additional information, visit www.sensics.com

About the Lyndon B. Johnson Space Center
Established in September 1961, first as the Manned Spacecraft Center (MSC), Johnson Space Center is NASA's primary center for design, development and testing of spacecraft and associated systems for human space flight. This center selects and trains a cadre of astronauts for space missions, and is extensively involved in medical, engineering and scientific experiments carried aboard space flights. For additional information, visit www.jsc.nasa.gov
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