LandForm Situation Awareness Software

Home
Products
Downloads
Data Sources
Press Releases
About Us
Contact
Clients
Support

See what the press and the industry are saying about LandForm 3D Real-Time Terrain Modeler Products.

Joint FAA/NASA/RIS Flight Test Utilizes SmartCam3D/SmartTopo technology
March 2nd, 2006 - Ellington Field Houston, TX

The FAA, NASA, and RIS conducted a flight test of a 3 panel version of SmartCam3D aboard an FAA aircraft today. The test will study ways in which aviation data types can be used to support advanced pilot displays, including as part of a UAV Glass Cockpit using SmartCam3D. The SmartTopo technology is being studied for its utility in runway approach inspection. You can download a video of the flight from this location as a QuickTime movie.

http://landform.com/NASA.FAA.RIS_V3.mov

 Here is a link to the QuickTime player in case you don't already have it on your machine, you can download it.
http://www.apple.com/quicktime/download/win.html

NASA Tele-Operates SCOUT Rover using SmartCam3D
September 15th, 2005 - Meteor Crater, AZ

NASA remotely operated the SCOUT rover using SmartCam3D in a 5 panel configuration at Meteor Crater this week. The ACES advanced cockpit evaluation system was used for test and performed beautifully operating the vehicle over the course of several miles. The ACES uses SmartCam3D in a panoramic display mode which provides the operator with a 180 degree field of view.

USAF UAV BattleLab and AFRL Evaluate SmartCam3D on Predator
September 1st, 2005 - Indian Springs AFAF, AZ

The USAF UAV BattleLab and AFRL are conducting a study of the human effectiveness benefits of SmartCam3D for USAF Predator aircrews, in support of USAF Air Combat Command. These studies involve installing SmartCam3D in Predator Ground Control Segments and flying numerous sorties using the technology.

NDIA Awards SmartCam3D Top5 Software of the Year
April 19th, 2005 - Salt Lake City, UT

The National Defense Industries Association identifies SmartCam3D as one of the TOP5 US software programs of the year. Mike Abernathy from RIS and Francisco Delgado from NASA accepted the dual awards for this program.

SmartCam3D is Awarded NASA JSC Exceptional Software of the Year
June 2004 - Houston, TX

Dr. Janis White and Rapid Imaging Software, Inc. received the NASA Johnson Space Center Exceptional Software of the Year award for the SmartCam3D situation awareness software system. The award was presented by General Howell in a ceremony Houston, Texas. The SmartCam3D software was also first runner up for NASA agency-wide software of the year. Well done, Janis and team!

LandForm® Guides X-38 Pilot in Successful Flight!
December 13th, 2001 - Edwards Air Force Base, CA

On December 13th, 2001, Astronaut Ken Ham successfully flew the X-38 from a remote cockpit using LandForm VisualFlight as his primary situation awareness display in a flight test at Edwards Air Force Base, California. This simulates conditions of a real flight for the windowless spacecraft, which will eventually become NASA's Crew Return Vehicle for the ISS. We believe that this is the first test of a hybrid synthetic vision system which combines nose camera video with a LandForm synthetic vision display. Described by astronauts as "the best seat in the house", the system will ultimately make space travel safer by providing situation awareness during the landing phase of flight.

Read more about LandForm in this AviationWeek article

LandForm® Develops New Map Projection for Planetary Exploration
September 29th, 2000 - Albuquerque, NM

Rapid Imaging Software announced the development of a new map projection which will aid astronauts in navigating earth, as well as other moons and planets. The new method to display maps is very beneficial to astronauts and planetary explorers because it displays the surface of the planet with minimum distortion nearest the spacecraft path, making landing site selection much more intuitive.

Since planets tend to be spherical in shape, any mapping algorithm must distort the curved surface in order to display it on a flat map. Traditional Plate Caree' (or Plane Charts) distort least near the equator which is the central axis of the map. The new projection called LandForm Orbital Projection uses the line of the satellite orbit, instead of the equator, as the maps central axis with the result that the satelite appears to move in a more or less straight down the center of the chart. This provides the viewer with a much more natural understanding of the terrain near the path of the satellite.

LandForm C3 Demonstrates Real-time Networked Flight Visualization
July 9th, 1999 - NASA Johnson Space Center, Houston, TX.

NASA engineers in Houston watched the X-38 flight test live as it occurred at Edwards, AFB using the LandForm C3 software. LandForm displayed the flight of the vehicle above terrain in real-time via a network link.

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