



## **Advanced Scientific Concepts Introduces the DragonEye 3D Flash LIDAR Space Camera™**

**Santa Barbara, CA – (September 14<sup>th</sup>, 2010)** – Advanced Scientific Concepts, Inc. (ASC), the leading supplier of 3D Flash LIDAR cameras (3D FLC), proudly introduces the DragonEye 3D FLC, designed specifically for use in Space explorations.

The lightweight DragonEye is a small form-factor (11.2 x 11.9 x 12.2 cm) integrated 3D FLC, capable of capturing a full array of 128x128 independently triggered 3D range pixels per each frame up to 30 frames per second, allowing 3D data streams to be generated in real-time. The DragonEye is used for Automated Rendezvous and Docking (AR&D) and possible On-orbit Satellite Servicing (OSS). Tested on NASA's STS-127 Endeavour orbiter and mounted on the STS-133 Discovery for additional tests, this same 3D sensor engine is used by NASA Langley Research Center as the core 3D sensor for Autonomous Landing and Hazard Avoidance (ALHAT) efforts.

As the first 3D FLC in space, the DragonEye boasts ASC's leading-edge technology advantages, including its Class I eye-safe lasers for illumination, real-time images without motion distortion, a non-mechanical camera, controlled via an Ethernet connection. Used to provide real-time input for guidance, navigation and control (GNC) systems, the DragonEye continues ASC's on-going efforts to expand the markets for its 3D FLC systems that began in 2005. ASC 3D FLC can be found in a wide range of applications, including Automotive, Defense, Surveillance, Robotics and Aviation. ASC's patented, unique technology brings tremendous value to space-based applications.

"ASC has worked with NASA Langley, Johnson, Jet Propulsion Laboratory and commercial companies for many years creating and enhancing a non-scanning 3D capture technology for space. We are confident our 3D Flash LIDAR cameras will help to revolutionize the space industry," said Dr. Roger Stettner, President and CEO of ASC. "The DragonEye 3D Flash

LIDAR camera allows new solutions for space, making unmanned or manned autonomous rendezvous, docking and landing a reality.”

**About ASC:**

Founded in 1987 and based in Santa Barbara, California, Advanced Scientific Concepts, Inc. develops leading-edge 3D sensors technology and cameras. With a wide range of customers from NASA to DoD to commercial companies, ASC’s proven technology and solutions provide the foundation for automated 3D applications from mobile vehicles in air, space or on the ground, to 3D videos for mapping, surveillance, games or movies. The real-time 3D video images and streams can be captured from 5cm to 5km with various fields of view. Visit [www.asc3d.com](http://www.asc3d.com) for more information.

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