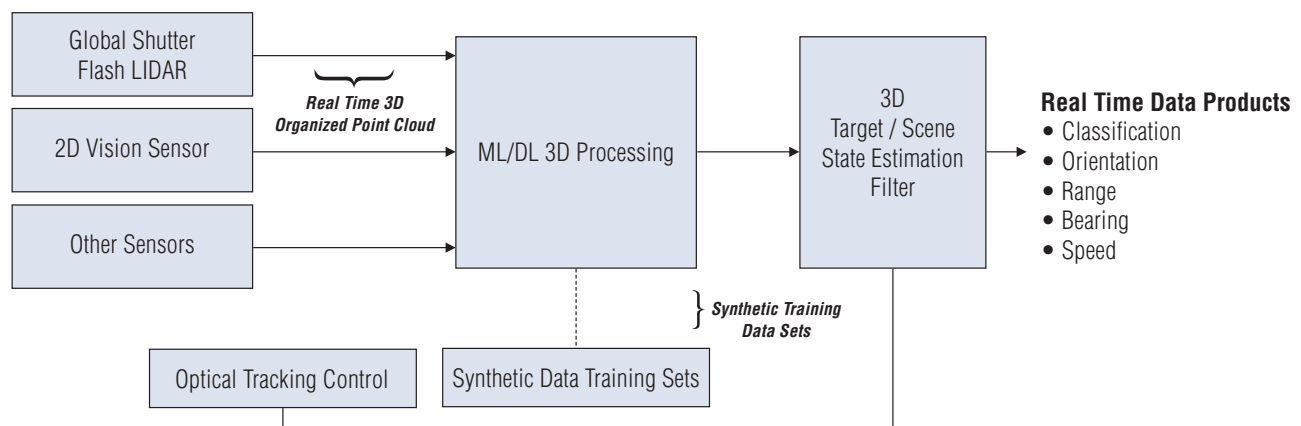


Intelligent Software Defined 3D Vision System (isd-3DVS®)

ASC's Intelligent Software Defined 3D Vision System (isd-3DVS) is not just another 3D vision sensor – it's the next-generation ML/DL enabled vision technology, designed to excel in autonomous relative navigation, real-time 3D mapping, and situational awareness applications. Engineered by Advanced Scientific Concepts (ASC), the isd-3DVS redefines the possibilities of vision sensing with its groundbreaking architecture and cutting-edge features.



Key Features:

Global Shutter LIDAR Technology (GSFL): ASC's proprietary global shutter LIDAR technology revolutionizes scene capture with its ability to illuminate the entire environment using a single laser pulse. By capturing reflected light through a solid-state global shutter sensor array, the GSFL real time generates organized point clouds of range and intensity data points, ensuring spatial and temporal correlation without motion blur. In addition to day/night imaging capabilities, the GSFL incorporates a built-in range gating feature that enables the system to range/ image objects in challenging visual conditions such as fog, rain, and dust.

Advanced ML/DL Processing: Integrated with advanced machine learning and deep learning processing, the isd-3DVS autonomously detects, classifies, and tracks objects at real-time video rates. This powerful combination of technology empowers the system to operate in complex environments with unmatched precision and reliability.

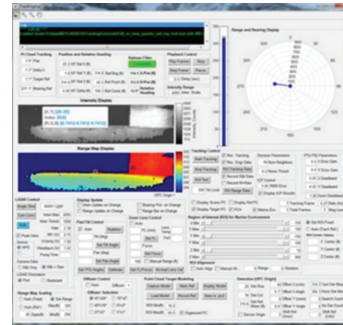
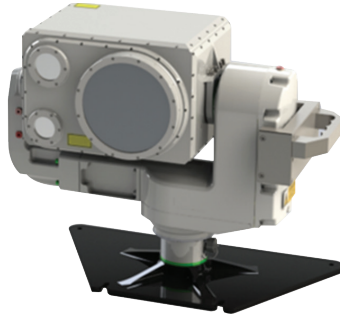
Software-Defined Sensor Capability: Leveraging physics-based digital twin simulations, the isd-3DVS offers a software-defined sensor capability. This unique feature enables algorithms to be retrained and upgraded directly on the deployed platform, ensuring adaptability and optimization for various missions.



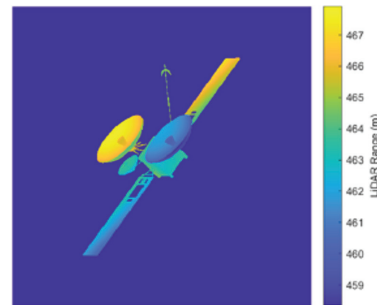
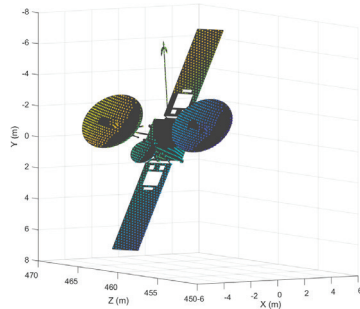
Advanced Scientific Concepts, LLC

INTELLIGENT 3D VISION SENSORS

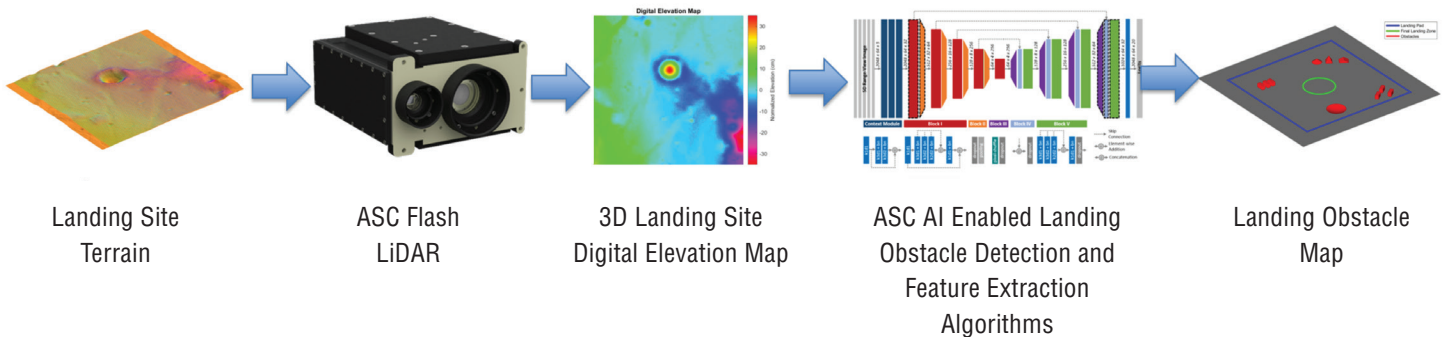
ASC's first product to use the ids-3DVS® architecture is the DPVIS Autonomous Vessel Range & Bearing Vision Sensor for the US Navy. The sensor autonomously searches, detects, classifies, and tracks target surface vessels and provides target vessel relative range and bearing data at video rates.



The system architecture can be adapted to support resident space object (RSO) and planetary mapping applications.



ASC's 3D intelligent sensor provides real time landing obstacle maps with no precursor information regarding the landing site.



Experience the Future of Vision Sensing with ASC's ids-3DVS

Join the forefront of innovation and exploration with ASC's Intelligent Software Defined 3D Vision System. Contact us today to learn more about how our cutting-edge technology can elevate your projects to new heights of success. Experience the future – experience ASC's ids-3DVS.

For additional information and pricing:
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