

See What You're Missing

Advanced Imaging and Sensing

Vision Engineering Solutions ("Vision") provides state-of-the-art imaging and sensing solutions for test and evaluation. Our unified line of products and services allow us to offer **comprehensive, cost-effective solutions** for imaging and sensing for all your testing needs. Our solutions cover the range of possibilities from complete turn-key systems that you can purchase, to data collection services where we collect and analyze the data for you; or anything in between.

The Vision Difference

We offer complete solutions, not just products. While other vendors may sell hardware or software products, we offer a full spectrum of integrated products and services designed to meet your most demanding data collection requirements. Through hundreds of operations, we've gained extensive experience in successful data collection techniques. We understand the requirements firsthand.

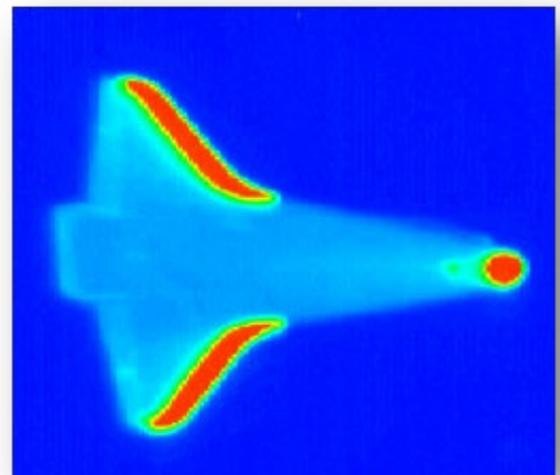
Sensing Methods

- UV to LWIR Imaging
- Laser Imaging
- LIDAR
- Radiometric Measurements
- Data Fusion with Radar
- Photogrammetry
- Thermal Imaging
- Documentary Imaging
- Laser Radar
- Metric Data (6-DOF)
- Polarmetric Imaging
- Best Estimate Trajectories

Vision Optical Scoring System supporting HELMD



Thermal Imagery



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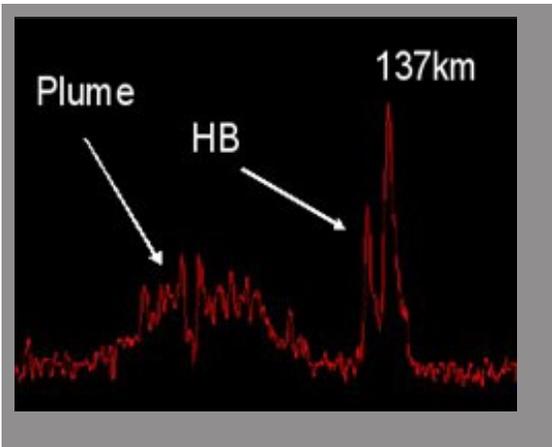
Pointing and Tracking Systems

Vision provides optical tracking solutions for defense, space, and many other applications. Additionally, we provide **upgrade and refurbishment packages** for existing tracking systems. These packages range from a simple installation of our **Precision Mount Control System (PMCS™)**, to replacement of drive motors, encoders, and amplifiers, coupled with PMCS installation. Our new and fully refurbished trackers are capable of tracking such targets as rockets, artillery and mortars (RAM), UAVs, and spacecraft. With an optional inertial referencing system, PMCS enables gimbals to acquire and track targets using absolute geodetic coordinates.

VT-100 Tracker



LIDAR rocket plume measurements



Data Collection and Analysis

Vision specializes in long range optical data collection. From MWIR imagery of RAM targets to laser ranging data from space objects, our personnel have employed sophisticated optical data collection systems on test ranges throughout the United States. Our sensors and tracking systems are fully calibrated, making the data we deliver both **metrically and radiometrically calibrated**. We have collected data for a wide variety of purposes, including: DoD research and development; engineering analysis; and signature measurement. Vision also has the capability to analyze collected data, transforming it into clear, actionable information for decision-makers.

Optical Imaging and Sensing

Vision personnel are experts at designing, integrating, and fielding **high technology readiness level (TRL)** optical imaging and sensing systems for

mission critical applications. This includes: UV through LWIR imagers; laser imagers; parametric sensors; LIDARS; and LADARS. For example, our infrared and laser imaging systems have been deployed on an operational weapon system for the Navy, and our atmospheric turbulence sensors have been used to validate Army HEL weapon system performance.

Range-Gated Imaging

