
Advantages

- World-class scientists developing optical diagnostic methods, including holography, spectroscopy, and flow diagnostics
- Competent engineering support staff
- Partnering with top researchers at major universities, including Princeton, Vanderbilt, Texas A&M, and University of California, Irvine
- Local access to academic research facilities and personnel at UCI
- Nine optical laboratories with a variety of lasers, optics, and detectors
- In-house machine shop

Products

- **LTS100:** A compact open-path spectrometer has been developed for measuring concentrations of selected species and gas temperature.
- **3D-PDV:** The system uses fiber optic bundles to collect the scattered light at specific observation angles that yield three components of the velocity vector.
- **Laser Vibrometer:** Optical Measurement Systems (OMS) Corporation, a spin-off company from MetroLaser, offers its customers an array of laser vibrometer products, as well as measurement services, product rentals, data acquisition and software solutions, and custom product development.

Contact Us

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*Delivering leading edge optical and laser solutions
for real world problems*





Company History

Founded in 1988, MetroLaser has been recognized for its laser-based measurement and diagnostic technologies for industrial, military, and space applications.

Mission/Vision Statement

- MetroLaser's scientists develop and deliver state-of-the-art optical diagnostic solutions for a broad range of applications in defense, aerospace, and industry.
- MetroLaser works in a focused collaborative fashion with a commitment to solving our customers' problems in a timely, efficient, and cost-effective manner.
- We believe that our customers' success is our success.

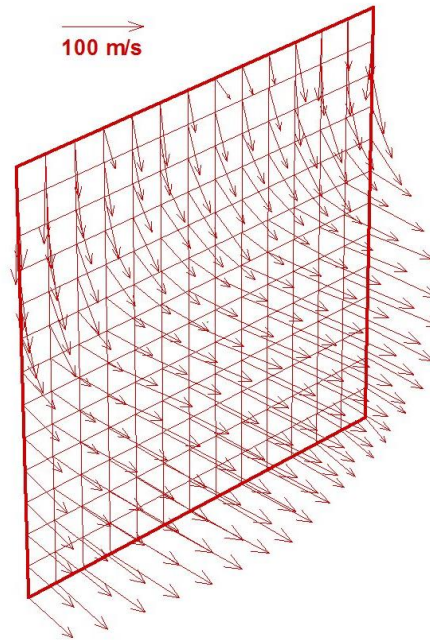
Spin Offs:

- Optical Measurement Systems (OMS) Corp.
- Spectabit Optics, LLC



Core Competency

- Technology development
- Turn-key optical diagnostic systems
- On-site measurements in wind tunnels and flow facilities
- First three-component nonintrusive unseeded velocity measurements in a jet engine exhaust
- 15 patents related to optical diagnostics
- National Small Business Prime Contractor of the Year award



The MetroLaser Planar Doppler Velocimetry (PDV) system measures static and dynamic airflow velocity, such as in the exhaust plume of a jet engine. PDV does not require physical contact with the exhaust gases as do pitot probes. A lab scale turbojet engine demonstration showed accurate velocity measurements.

Market/Customers

- **Government:**
 - Navy
 - Air Force
 - Army
 - NASA
- **Private:**
 - Lockheed Martin
 - Pratt & Whitney
 - Rocketdyne
 - CFD Research Corporation
 - LaVision GmbH
- **International:**
 - Germany
 - Korea

Contract Vehicles

- Small Business Innovation Research (SBIR)
- Small Business Technology Transfer (STTR)

