
# miniLDV G5

## Rugged Minaturized Velocimetry

Reliable. Portable. Precise.

Data collection made simple. Ideal for industrial and research applications, the miniLDV G5 is a pencil length sensor that sets up in under 30 minutes.

Proprietary technology enables a miniaturized and rugged sensor at a fraction of the traditional LDV size. A wide range of customizations will meet any experimental demands. Permanently aligned and calibrated, results can be acquired quickly, even with no previous experience. Just plug it into a computer, point it at the target, and it's ready to perform.

For fluids research, surface speed measurements, wind tunnel analysis, and more, the miniLDV G5 is the versatile sensor solution.

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626.577.0566

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Each miniLDV G5 sensor includes the Burst Processor software that collects data, moves the probe on optional electronic traverses, and presents flow statistics. With a traverse, measuring a flow profile is fully automated, making PIV-style full-field characterization simple. Sensors can be customized for use underwater, at high temperatures and pressures, and in high vibration applications.

# Advantages of the miniLDV G5


- Compact and lightweight
- No alignment or calibration required
- NIST traceable calibration offered
- Velocity Range from low to supersonic
- Frequency shifting feature measures flow direction along with speed

# Specifications

WARNING Laser Radiation | Avoid Exposure To Beam Class 3B (IIIb) Laser Product

| Measurement Specifications | |
|---|---|
| Velocity Range | -50 to 600+ m/sec* |
| Repeatability | 99.9% |
| Accuracy | 99.7% |
| **Measurement Volume** | |
| Dimensions | Min: 30 x 60 x 200 µm* |
| Standoff Distance | 35 mm to 240 mm available |
| **System Specifications** | |
| Total Weight | 1.08 kg |
| Sensor Diameter | 1.25” (32 mm) |
| Sensor Length | 6.9” (175 mm) |
| Processing Engine | 8.2” x 6.8” x 2.4” (208 x 172 x 60 mm) |
| Cable Length | 10’ (3.05 m) |
| Power Supply | 12 VDC, 0.3 Amp |

*Values are a function of the fringe separation and standoff distance

| Laser Specifications | |
|---|---|
| Laser Power | 140 mW |
| Wavelength | 658 nm |
| Laser Type | Class IIIb |
| **Operating Parameters** | |
| Temperature | 5 to 35°C |
| Pressure | Atmospheric |
| Software OS | Windows 10 & 11 |
| Port | USB-A |

**Traversing Stage Options**

- 1D, 2D, & 3D traverse systems available for profile measurements

**Optional Features**

- Water Proof Housing
- High Pressure and High Temp. Housing
- Battery Powered