

Fp50 shift LDV System



Fp50 shift Probe

The new fp50-shift LDA system integrates the laser source, frequency shifting and optics in a single compact probe. There are no optical fibers to transport the beams from the Laser to the probe optics, so almost all of the Laser energy is transmitted to the measurement volume.

When comparing with common fiber-based LDA systems, this approach has the advantage of a high available illumination power offered at a very competitive price.

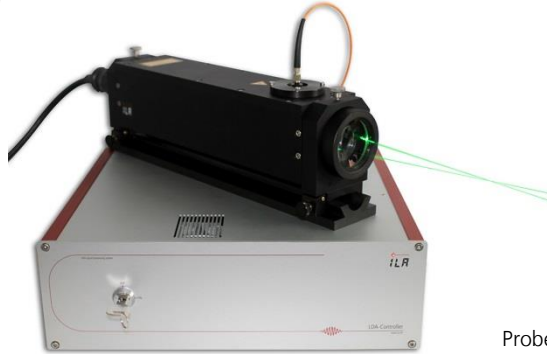
The fp50-shift is designed with robustness and stability in mind. All optical elements, such as Bragg cells and prisms, are factory-aligned and fixed, with no need for in-use readjustment

Main Features:

- Simple setup and alignment
- Long term stability
- High laser power transferred to the measurement volume
- High measurement accuracy
- No optical transmission fibers
- Automatic traversing, optional
- Robust Transportation Suitcases
- Little Dispersion Effect
- Good Visibility
- Upgradeable to 2D System



Specifications



Probe with Controller

LDV Probe

Dimensions	80 x 80 x 328 mm
Weight	4,1 kg
Laser Power	75, 100, 200 mW
Coherence Length	>50 m
Focal Length	250, 400 mm*
Beam distance	45 mm
Wavelengths	532 , 561, 553 nm
Accuracy	0,3 %
Power Adjustment	30 % up to 100 %
Velocity Range	0,01 – 150 m/s
Calibration	PTB Calibration certificate on request
(*) Other focal lengths are available on request	

LDV Controller

Dimensions	330 x 365 x 116 mm
Weight	7 kg
Spectral Analysis Module	50, 200 MHz, 8 Bit
Input range	+/- 100 mV, +/- 200 mV, +/- 500 mV, +/- 1 V
Signal separation	Photomultipliers, APD
Communication	Ethernet Connection

Accessories

- Traversing units, up to 9 axes with displacement from 200 up to 2000 mm
- Traversing software for different suppliers integrated in Qflow
- Raytracing Software
- Receiving optical fibers
- Integrated IF Converter with 6 analog channels
- ILA LDV Computer
- Seeder, particles