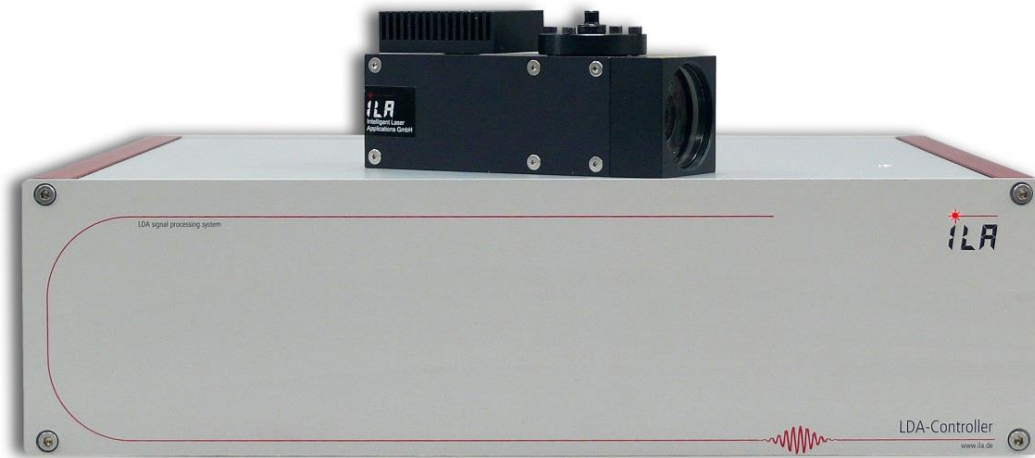


fp40-LD LDV System



The fp40-LD Probe presents a compact and robust design, which makes it especially suitable for measurements where the space is limited. The probe does not require any optical alignment since the receiving multimode optical fiber is at a fixed position and all optical components are rigidly fixed in an unibody housing.

The probe has a 40 mW diode laser with a wavelength of 643 nm, which is stabilized by a temperature control regulation. As a result this probe provides high measuring accuracy (0,5%) in a very compact setup.

Main Features

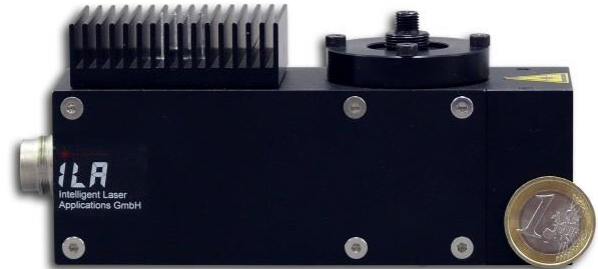
- Simple setup and alignment
- High long term stability
- High laser power transferred to the measurement volume
- High measurement accuracy
- No optical transmission fibers
- Automatic traversing, optional
- Compact design
- Transportable without losing adjustment
- Industrial, educational and scientific applications

Specifications

LDV Probe

Dimensions	45 x 45 x 130 mm
Weight	725 g
Laser Power	30 (785 nm), 40 (643 nm) mW
Focal Length	90, 160, 200 mm (*)
Beam distance	30 mm
Wavelengths	643 or 785 nm
Accuracy	0,5 %
Calibration	PTB Calibration certificate on request

(*) Other focal lengths are available on request



LDV Controller

Dimensions	330 x 370 x 116 mm (*)
Weight	6,8 kg
Detector	Photomultiplier/APD
Communication	Ethernet Connection

(*) LDV Controller also available for 19" rack

Spectral Analysis Module

Sample rates	50 MHz, 200 MHz, 1 GHz
Resolution	(8 Bit/ 12 bit)
Input range	+/- 100 mV, +/- 200 mV, +/- 500 mV, +/- 1 V

Accessories

- Traversing units, up to 4 axes with displacement from 200 up to 2000 mm
- Traversing software for different suppliers integrated in LDA Control Qt
- Raytracing Software
- Receiving optical fibers
- Integrated IF Converter with 6 analog input channels (4-20 mA)
- ILA LDV Computer
- Seeder, particles