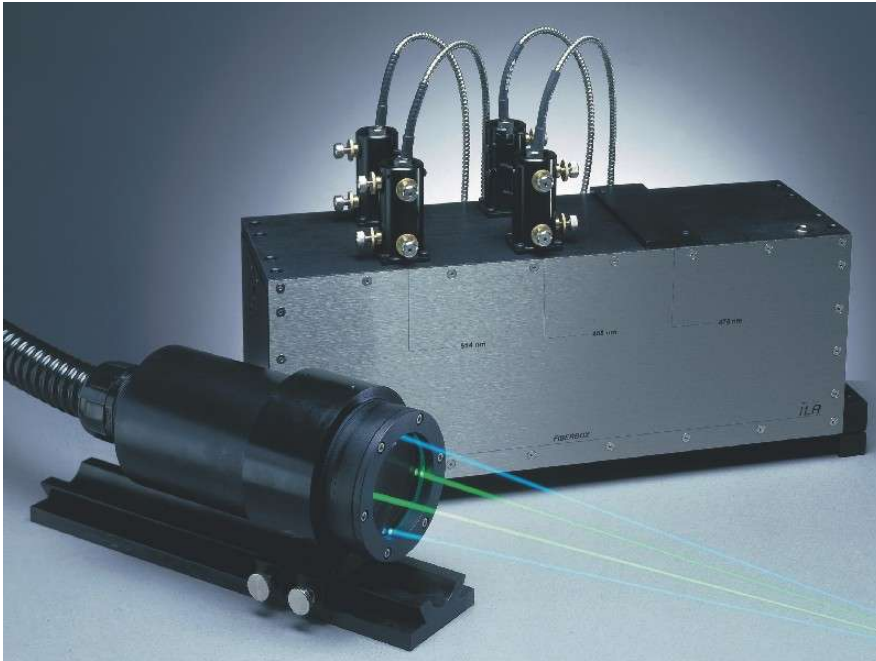


fp63 Fiber Optical LDA System



The fp63 LDA probe with fiber box

BENEFITS:

- **Watertight**
- **No electronics inside the probe**
- **For Ar⁺ and Nd:YAG-Lasers**
- **Optical fibers with built-in collimation optics**
- **Upgradeable to 3D**

For reliable underwater applications it is highly preferable to have no electronic components inside the probes. The fp63 fiberoptics LDV system is designed to answer this requirement. Ar⁺ and Nd:YAG-laser sources can be coupled to the fp63 via the ILA Fiberbox. For Nd:YAG-Lasers we offer a 19 inch rack-mounted version of the Fiberbox, so that an upgrade to the second or third component is easy. The single mode and polarisation preserving fibers have stainless steel protection sheaths and integrated collimation optics to guarantee an easy adjustment procedure and an excellent beam quality. To avoid external beam expanders, the beam is enlarged by a collimator at the fiber output, resulting in small measuring volumes and small probe size. For 3D underwater applications, profiled adapters are available to couple 2 standard f63 probe optics.

In common with all LDA systems from ILA, the fp63 is operated via the proven and user-friendly *flowPOINT* software interface.

FEATURES

Probe:

- fiber optical probe
- water tight to 10 m
- 1D or 2D version available
- focal length 400mm, 600mm, 800mm
- Beam distance 55mm

Controller:

- 19" rack-mounted
- includes downmixer, bandpass filters, amplifier, raw and filtered signal outputs, photomultiplier with high-voltage power supply



Data evaluation:

- FFT based data evaluation
- PC based for high flexibility and low costs
- Spectra Analysis Module, 200MHz or 400MHz for high speed flows: two channel A/D-converter, sampling rate up to 200 MHz (400MHz) on each channel, 8 or 16 Bit, input range +/-50mV, +/-100mV, +/-200mV, +/-500mV, +/-1V

Accessories

- Traversing units (up to 5 axes, displacements from 200 to 2000mm)
- Traversing software integrated in *flowPOINT* software
- Phase correlation module