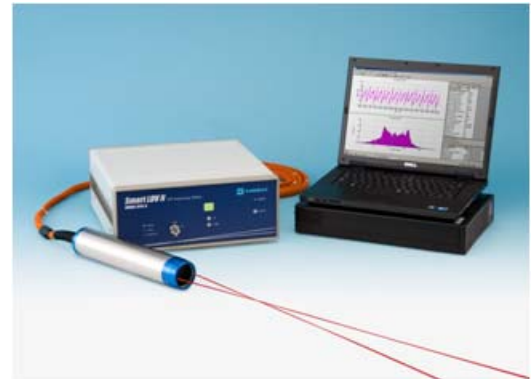
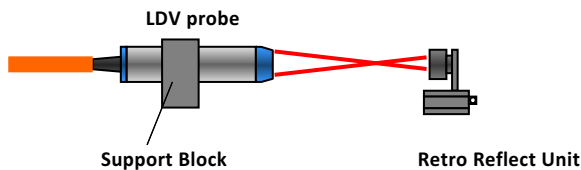


Fluid Mechanics Research Instruments

Smart LDV II

Compact LDV System

Two ion lasers from the fiber optic transceiver probe detect velocity measurement. Smart LDV System is easy to use high quality LDV system.



Applications:

- Non-contact velocity measurements
- Wind tunnel studies
- Measurements in combustion, combustor

Features:

- Measure velocity of each bubble
- Applicable for non-conductive fluid
- Signal Processor is available for option
- Includes LDV probe with cable, Smart LDV driver, BNC-BNC cable, Interlock connector, probe support block, power cable, and probe case



Specifications	
Model	Smart LDV II
Velocity Ranges	-40 to 100 m/s *Ask for above 100 m/s
Laser	Laser Diode: $\lambda = 660$ nm, Optical power: 60 mW
Focal Distance	150, 200, 250, 300, 350, 400mm
Focal Point Size	0.13 mm x 1.3 mm
Probe Size	$\varnothing 61$ mm x 312 mm
Shift Frequency	0.01 to 10 MHz (1-2-5 steps)
Signal Processing	8-bit FFT (512, 256, 128 points)
Max. Data Rate	16000 Data/sec

FLUOSTAR

Fluorescent Seeding Particles for PIV Applications

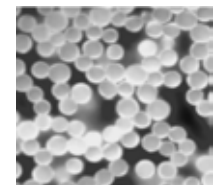
FLUOSTAR feature the outstanding emission efficiency of fluorescence, which are best suited for PIV applications. The strong orange-colored fluorescence may be even observed by sight using a 5 mW laser pointer.

Applications:

- Single-phase liquid flows
- Multi-phase flows
- Industrial large-scale flows
- Near-wall flows
- Stereo PIV

Features:

- Moderate size dispersity
- Uniform spherical shape
- Minimal photobleaching
- Minimal dye leaking
- No swelling or shrinking



Specifications	
Substrate Material	Carboxy-modified acrylate resin
Refractive Index	1.560 (polymer)
Temperature	Resistant up to 100 Celsius (polymer)
Fluorescence dye	Rhodamine B (Excitation 550 nm / Emission 580 nm)
Density	1.1 g/cm ³
Size Uniformity	15 μ m (Uniform spherical shape)
Size Uniformity	Less than 20% C.V.
Sizes	1, 5, and 10 μ m