



KANOMAX
The Ultimate Measurements

Smart LDV System

- Laser Doppler Velocimeter -

**HIGH QUALITY, AFFORDABLE
and COMPACT LDV system !!**

**Easy to use!
Useful for PIV calibration**



Specification

Available Velocity

Without Frequency Shifter: 100m/s
With Frequency Shifter: -10m/s~30m/s
(Please contact us for the application over 30 m/s.)

Optics

Laser Laser Diode, $\lambda=635\text{nm}$, 10mW
Focal Distance 150mm
(Options: 170mm,200mm,250mm)
Measurement Volume 0.09mm \times 0.7mm
Measurement Method Back Scattering/Forward Scattering
(High quality signal is obtained by the retro reflector mirror)
Probe Size 60mm \times 300mm
Shift Frequency 0.01-10MHz (1-2-5step)

Signal Processor

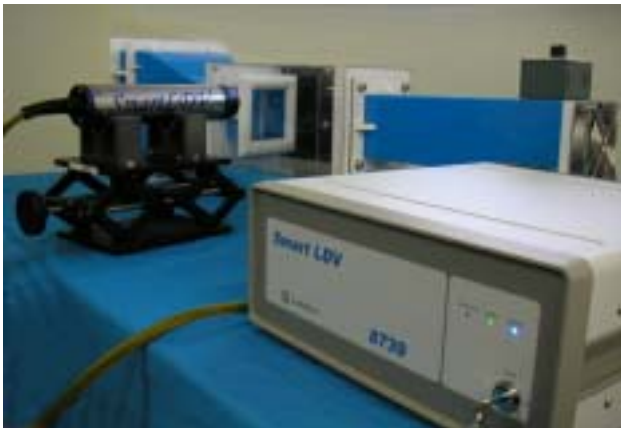
Signal Processing 8-bit FFT (512,256,128 points)
Frequency Range 1kHz~40MHz (8 ranges)
Max. Data Rate 8000 Data/sec
Effective Judgment Computer Burst spectrum ratio
IBM PC Compatible
(with PCI full slot)

Software

Max. Number of Data 99,000
Real Time Monitor
Burst signal
Burst spectrum
Velocity histogram
Data Output
CSV Format

Data Processing

Mean velocity
Turbulence intensity
Skewness factor
Flatness factor
Velocity histogram
Time history



All the information,data and specification shown subject to change without notice.



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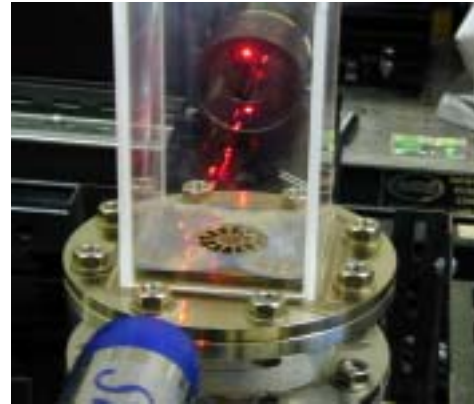
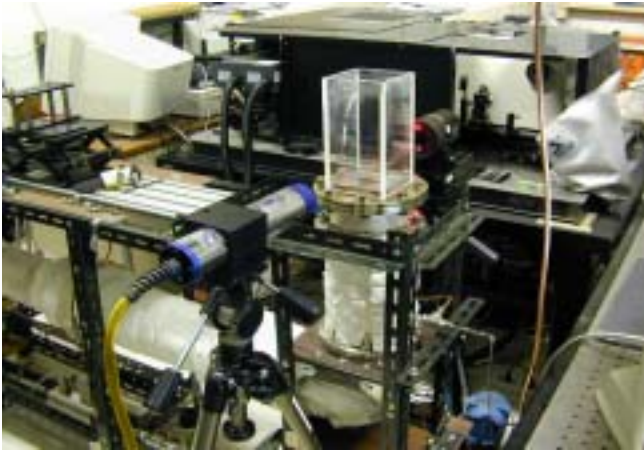
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Measurement Example :

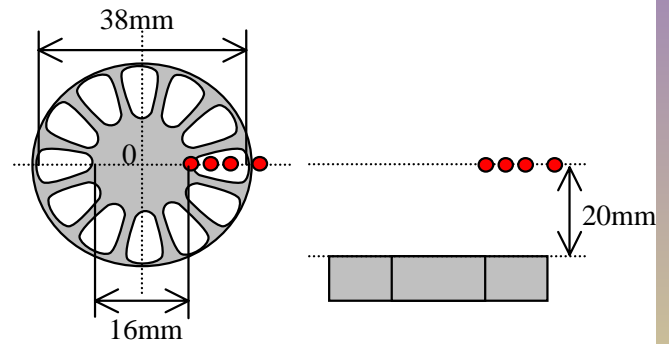
Velocity measurement in combustor swirler

• Setup



• Measurement Condition

- **Inlet Temperature:** 600K, 316K
- **Inlet Velocity:** 10, 12.5, 15, 17.5, 20m/s
- **Measurement Points:** 4 points at 8, 12, 16, 21 height 20mm



• Measurement Environment

- **Tracer Particle** SiO₂ 3.0 μ m
- **Focal distance** f = 200mm
- **Frequency Shift** Nothing
- **Forward Scattering** With Retro Reflect Mirror
- **Others** Combustor is moved on a slight movement stage.

• Result

- **Example:** 600K, 20m/s

