KANOMAX
The Ultimate Measurements

ILIDS

Interferometric Laser Imaging Droplet Sizer (ILIDS)

Features

*** **Simultaneous measurement of diameter and velocity of individual droplets and bubbles**

*** **Planer measurement**

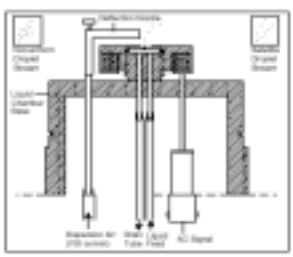
*** **Applicable to high concentration sprays**

*** **Compatibility with PIV system**

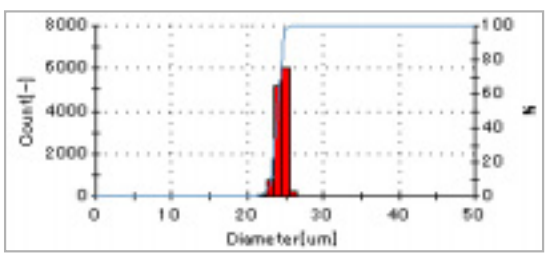
Specifications

Method :	Interferometric Laser Imaging
Measuring object:	Droplets and bubbles (spherical particles)
Output:	Diameter histogram, velocity histogram, relevant statistics values, droplet vector map diameter-velocity correlation
Diameter range:	10 μ ~1mm (dynamic range 1:15, typical)
Velocity range:	Up to 100m/s (typical)
Field of View:	2x2 mm~15x15mm(typical)
Number density:	0~40,000/cm^3
Components:	Dual YAG Laser(50mJ/pulse, typical) Digital CCD Camera(1Kx1K) Pulse Controller, PC, Software

Data of Vibrating Orifice Aerosol Generator



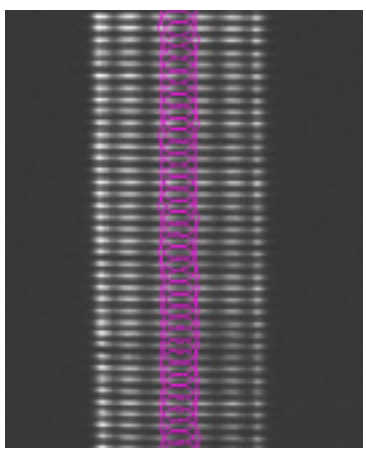
TSI-3450
Droplet Diameter=25.3mm
(calculated initial droplet diameter)



Histogram

--Diameter--
D10 = 23.924mm
D20 = 23.934mm
D32 = 23.943mm
Dia.Min = 9.998mm
Dia.Max = 31.499mm
Mode Dia. = 24.998mm
Lower Dia. = 23.998mm
50% Dia. = 24.998mm
Upper Dia. = 24.998mm

Statistic Data



Imaging data

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

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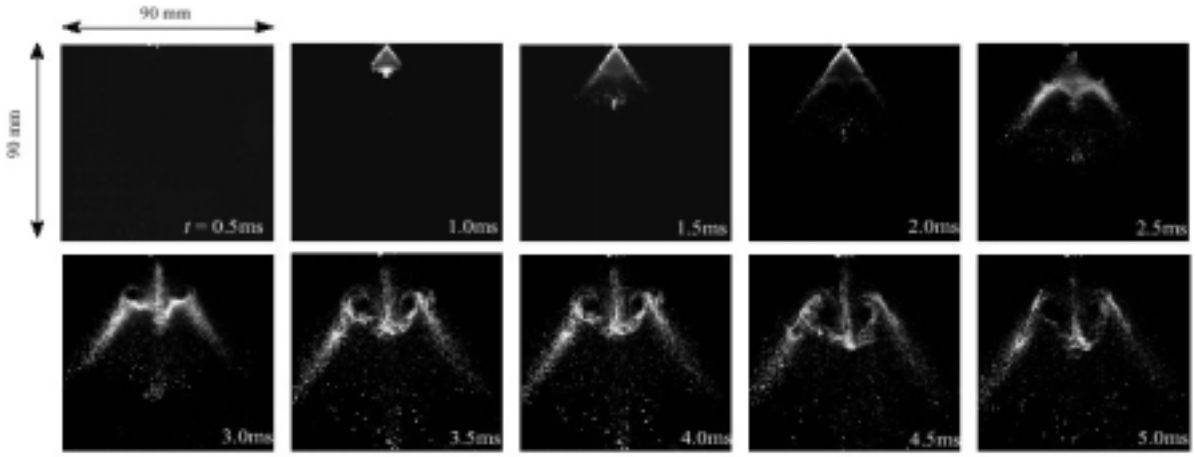
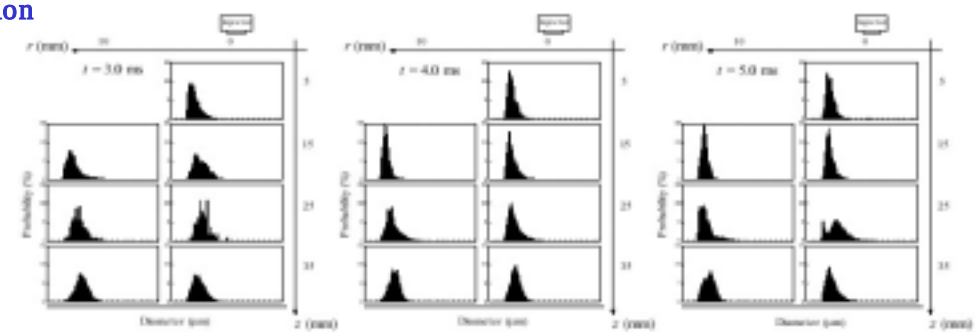
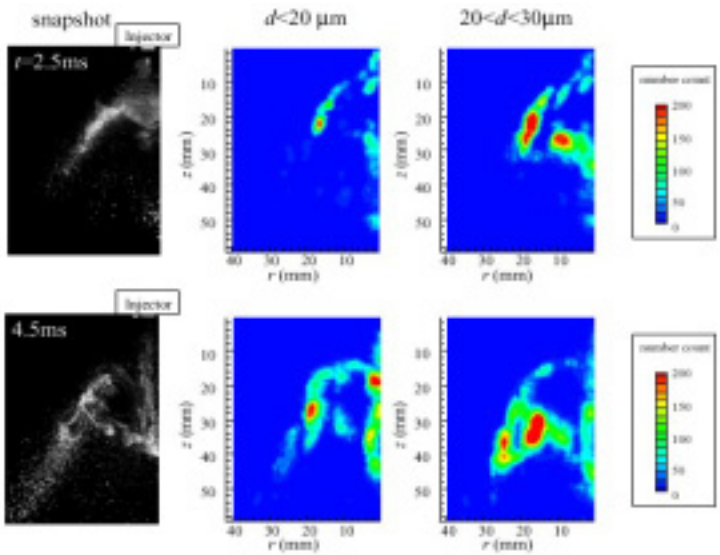
Snapshots of the spray



Probability density function



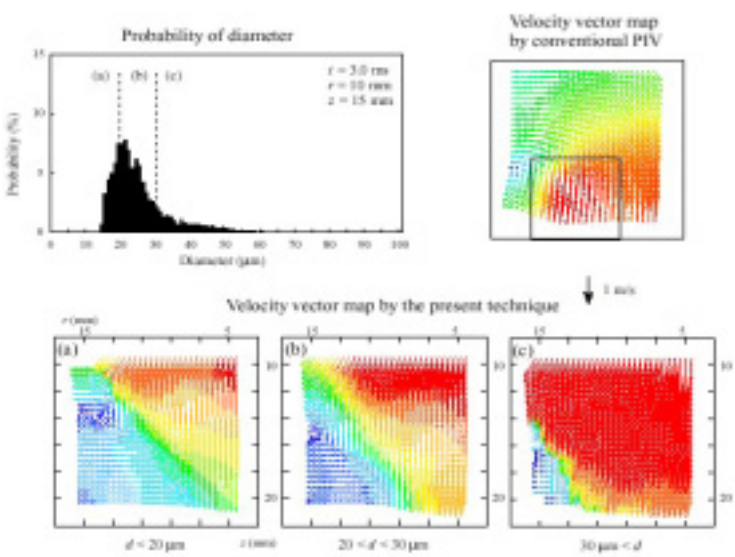
Instantaneous distribution of droplet number count



Probability of diameter and Velocity map by PIV

Probability density function of the droplet diameter and comparison of velocity vector maps by conventional PIV and by spatially averaged velocity of the present techniques at the exactly same observation area in flow.

The velocity vector map by the present technique was classified by the diameter.



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