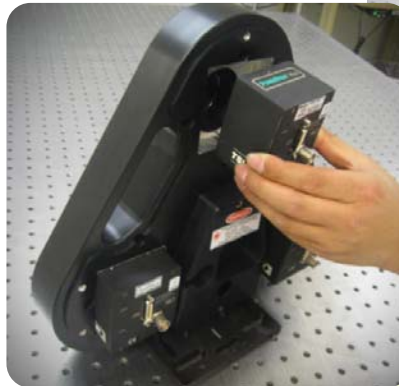


New, Flexible Camera Arrangement Provides the Most Versatile 3D3C Flow Measurement System Available

Using a flexible camera arrangement, three cameras, each with 4 million pixel resolution, can now be taken out of the V3V-9000 probe* and used in any arrangement needed to meet a wide array of flow measurement applications, including:

Applications:

- 3-dimensional flow in a volume (V3V)
- 3-dimensional flow in a plane (Stereo PIV)
- 2-dimensional flow in a plane (2D PIV)
- Scalar measurements in a plane (PLIF)
- Stereo PIV + PLIF
- microPIV



When three cameras are inserted into the V3V™-9000 probe, robust volumetric 3D measurements (3D3C) can be achieved.

Upgrading to the V3V-9000

If you have a Stereo PIV or 2D PIV systems based on the PowerView Plus 4MP camera, your system can be easily upgraded to the V3V-9000 for 3D3C measurements. To upgrade, check out TSI's new packages:

Package for StereoPIV upgrade to V3V™ 3D3C System:

Model	Description	Quantity
PIV-V3V-UP	Upgrade system from PIV to V3V, including V3V Precision Mount, Calibration system, Hyperstreaming system and Insight V3V software	1
630059-ST	Powerview 4MP camera	1
RP-630159-FIRM	Firmware and camera upgrade	2

Package for 2DPIV upgrade to V3V™ 3D3C System:

Model	Description	Quantity
PIV-V3V-UP	Upgrade system from PIV to V3V, including V3V Precision Mount, Calibration system, Hyperstreaming system and Insight V3V software	1
630059-ST	Powerview 4MP camera	2
RP-630159-FIRM	Firmware and camera upgrade	1

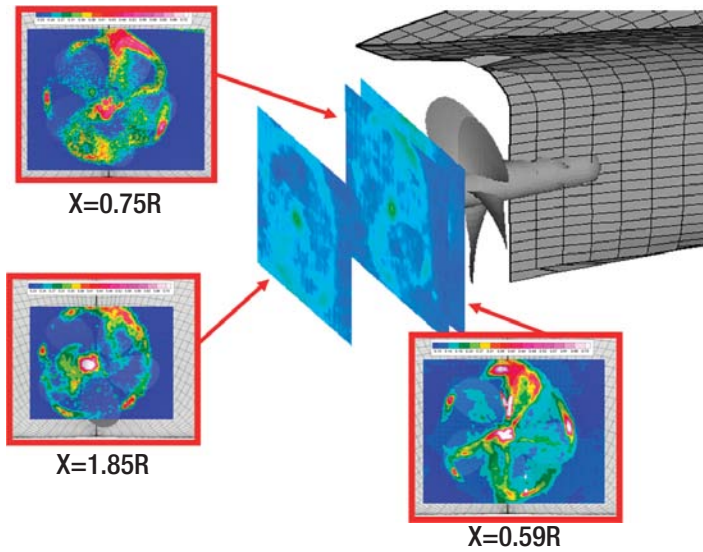


Call 800-874-2811 to contact a TSI Sales Manager, TSI Representative, or visit tsi.com/V3V9000 for more details.

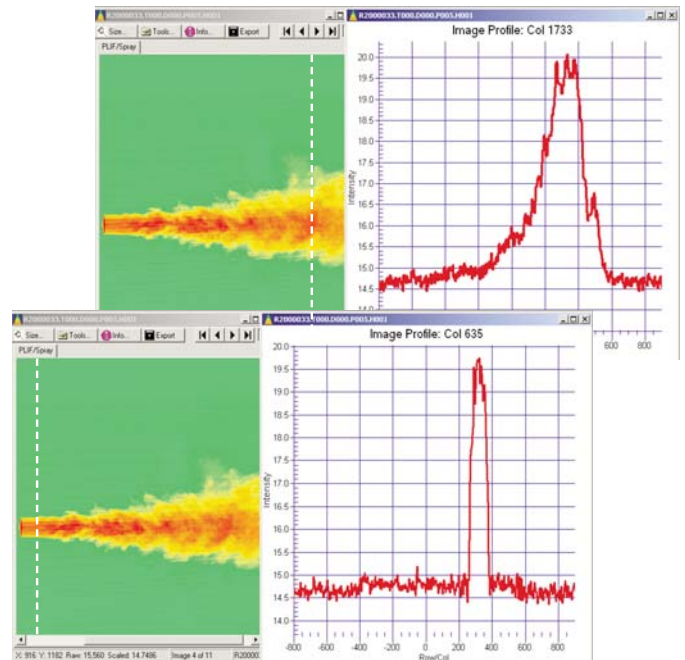


TRUST. SCIENCE. INNOVATION.

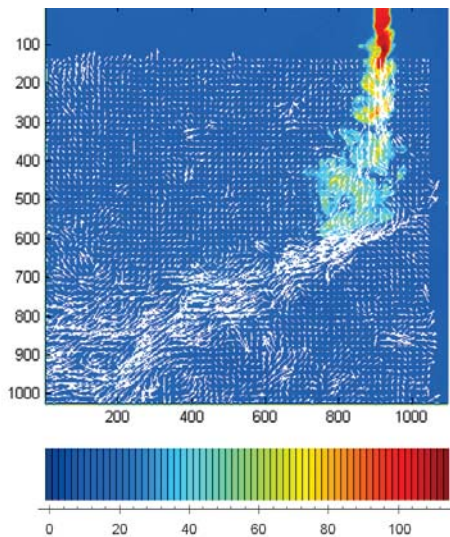
New, Flexible Arrangement... Same Incredible Results!



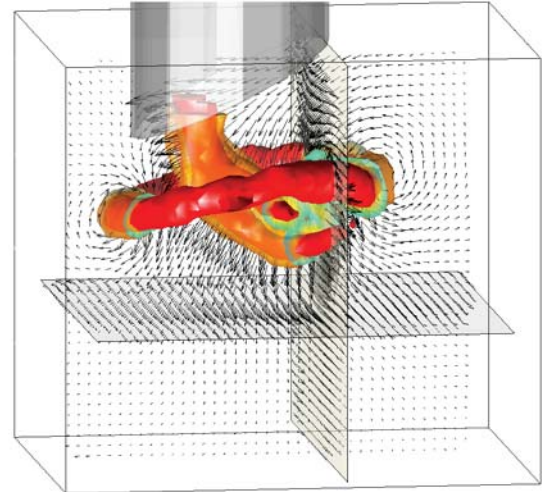
StereoPIV downstream of a propeller. Courtesy of INSEAN



PLIF concentration measurements of a jet



Simultaneous PIV-PLIF measurements of intersecting jets



V3V measurements of a vortex ring generated from a piston with an inclined exit. Ref. Troolin D.; Longmire E. (2009), Experiments in Fluids; 48(3).

*The V3V-9000 arrangement is a measurement technique based on using an aperture coded camera for three dimensional imaging in the US patent numbers 6278847 and 7006132.

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