

Underwater Stereo PIV System



PIV measurements in hydrodynamic test facilities like towing tanks require flexible positioning of cameras and light sheet optic underwater next to the investigated area. ILA developed a modular underwater Stereo PIV solution that can be adjusted to various measurement requirements. The integrated ILA mini light sheet optic and the ILA.PIV.Nano cameras deliver high performance at a compact size. Remote controlled lenses and Scheimflug mounts allow quick adaption to varying operating points or changing measurement conditions. Viewing angle of the cameras can be customized due to the modular construction.

Features :

- Adaptable and modular construction
- Remote control of camera lenses and mounts
- Field adjustable light sheet optic
- Exchangeable windows for customized viewing angle
- Simple and approved laser beam delivery with articulated mirror arm
- Streamline profile
- Solid construction and mounting

Data Sheet
June 2024

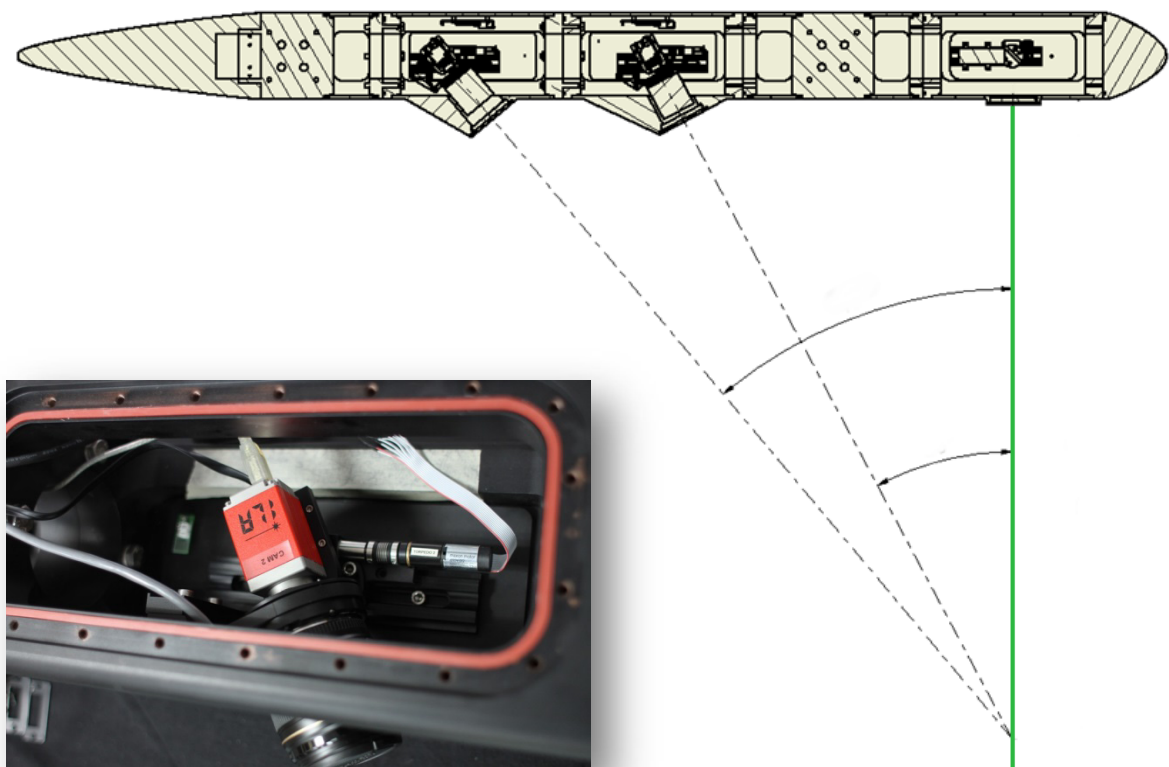
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Specifications :

Dimensions:	2550 mm x 192 mm x 192 mm
Cameras:	ILA.PIV.Nano
Objectives:	Canon EOS with remote control of focus and aperture
Viewing angle:	Adjustable through customized window modules
Scheimpflug:	Remote Controlled
Diving depth:	Up to 2.5 m



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