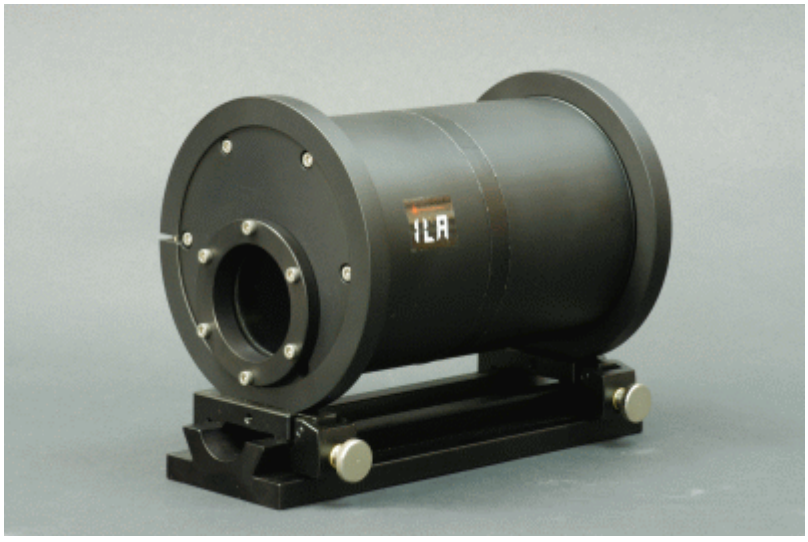
Remote-Controlled Submersible Light Sheet Optics



Underwater Light Sheet Generation Optics with Remote-Controlled Focus

For PIV and flow visualisation applications where it is not possible to adjust the light sheet manually during the experiments, ILA offer remote-controlled light sheet units, either based on our standard range or to customer specifications.

One particular application area for this technology is in underwater PIV and flow visualisation. The light sheet generation optics pictured above is mounted in a special watertight casing allowing depths of operation to 10m. It uncludes a motorised focussing mechanism for remote-control of the light sheet focus.

Custom light sheet optics packaging can be provided for one-off requirements.

Specifications

- Suitable for Nd:YAG Laser sources up to 400mJ
- Adapters available for articulated mirror arms or custom Laser interface
- Dimensions of unit shown: 180 x 100 (Dia.)
- Minimum light sheet thickness: 0.5mm
- Focussing distance: adjustable 100 to 3,000mm

Accessories

- Rail-mounted clamps to fix light sheet optics in position
- Custom mechanical interfaces for special applications
- Adapter piece for articulated mirror arm (watertight version)

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