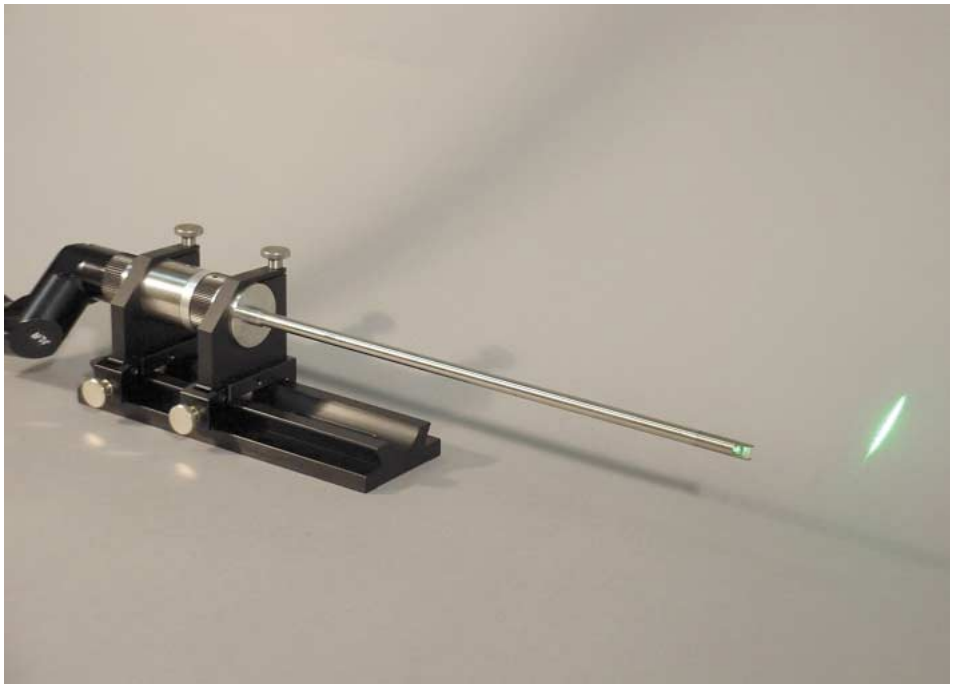
Endoscopic Light Sheet Optics



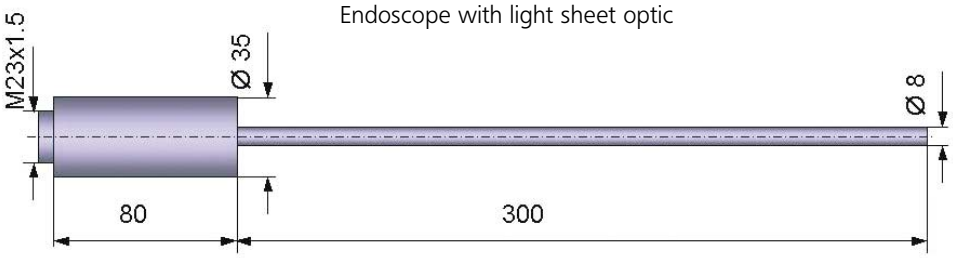
Endoscopic light sheet optic fitted with 90° prism

Are you running your PIV system in closed casings with difficult optical access? ILA provides you with different endoscopical light sheet optics with a diameter of 8 mm and rough lenses for Nd:YAG laser up to 120 mJ. The small diameter of 8 mm minimize the vitiation of the flow, although the small diameter ILA's endoscopic light sheet optics insure a thickness between 0.5…1 mm with focal distance between 500…2000 mm and a divergence angle of 26°. The endoscopic light sheet optic can be mounted directly in front to the laser or on an small rail with an adapter to ILA's articulated mirror arm.

Alternatively the endoscopic light sheet optic can be delivered with a prism in front to make redirection angles up to 90° possible. Due to the prism the divergence angle is reduced to 16°.

Specifications

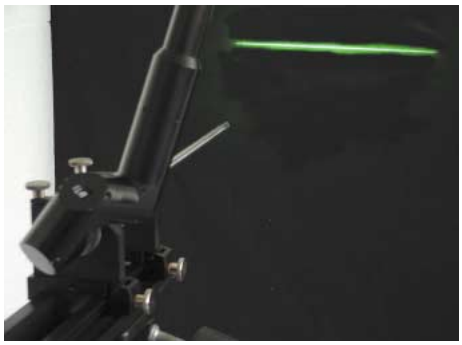
Endoscope with light sheet optic

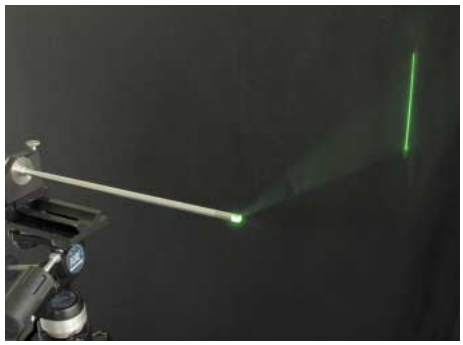


- Weight: 418 g
- Light sheet divergence angle: 26° (or 16°)
- Light sheet thickness: 0.5...1 mm (depends on laser beam quality)
- Focal distance: 500...2000 mm
- Dimensions: 80 mm x ø35 mm
- Tube diameter: ø8 mm
- Tube length: 300 mm

Options

Alternatively the endoscopic light sheet optic can be delivered with a prism in front of the tube enables: fixed redirection angles: up to 90° (reduced divergence angle of 16°)





Endoscopic light sheet optic with (r) and without (l) redirection prism

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