Scheimpflug Tilt Adapter

3D-stereo tilt adapter assembly

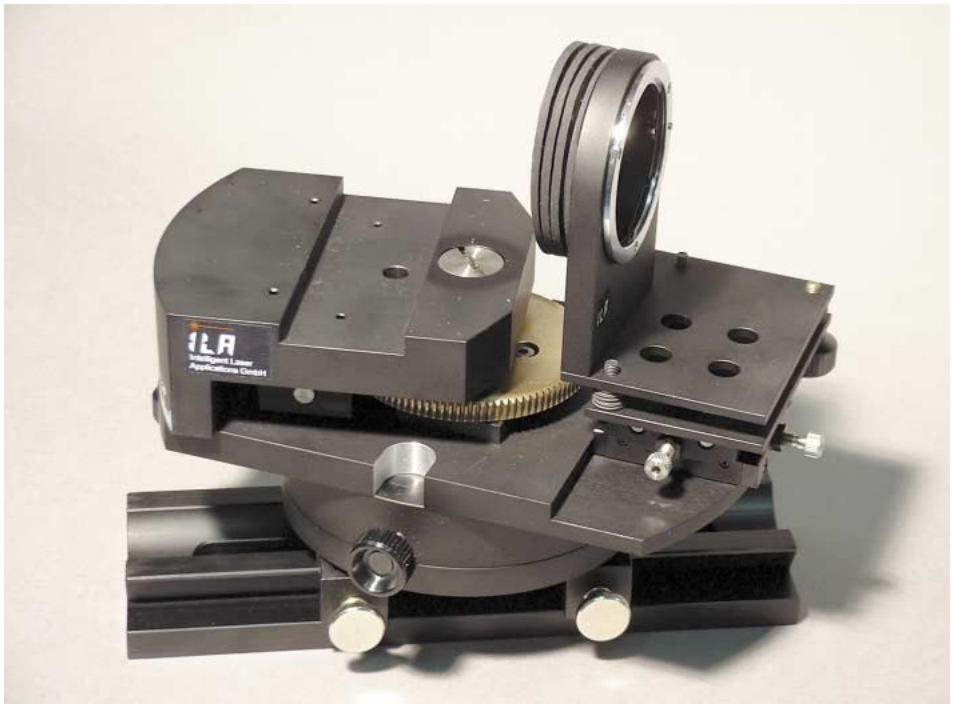
Scheimpflug tilt adapters are required in 3D-stereo PIV setups, and in general when PIV cameras view a measurement plane at an oblique angle.

The ILA tilt adapter provides all the necessary angular and focus adjustments for setting up a 3D-stereo PIV imaging system:

- Whole camera rotation
- Sensor plane rotation for Scheimpflug angle adjustment
- Longitudinal lens position adjustment for close-range focussing
- Lateral lens position adjustment for fine tuning of image overlap between left and right cameras.

Tilt adapter mounts are also useful in standard 2D PIV when it is not possible to position the camera viewing axis perpendicular to the measurement plane.

Specifications



- **Weight:** 2,6 kg
- **Dimensions:** 130 mm x 200 mm x 150 mm (width x length x height)

Tilt
- Tilt mechanism: rotating plate
- Max tilt angle: +/-20 degrees
- Tilt adjustment: worm gear transmission
- Lens adjustments: by X-Y-micrometric screw

Rotation
- Rotation mechanism: precision turntable
- Max. rotation angle: 360 degrees

Lens Mount
- Standard spec. C/F-type adapter, Nikon (other makes also available on request)
- Camera interface light-proof bellow

Camera
- Configurations available for most PIV camera makes (PCO, Hamamatsu, Kodak and others)

Mounting
- 65 mm precision extrusion rail, available up to 2 m.

Options
- Motorised lens focusing unit (suitable for F-type lenses), software control via RS-232 interface.
- Second tilt angle available by tilting the lens bracket

Intelligent Laser Applications GmbH
Karl-Heinz-Beckurts-Straße 13
D-52428 Jülich
T +49 (0) 2461. 690 430
F +49 (0) 2461. 690 439
info@ila.de www.ila.de