

ZEISS ARAMIS Adjustable 24M

Measuring deformation and strain at the highest level of detail

ZEISS ARAMIS Adjustable 24M combines advanced technology with maximum flexibility. The two 24-megapixel cameras capture even the smallest details of 3D displacements and surface strain – both for point-based and full-field measurements. With its unique combination of high local resolution and image recording rate, the sensor offers precise results for a wide range of inspection tasks and meets sophisticated demands in research and development. Based on photogrammetric methods, the ZEISS ARAMIS Adjustable 24M system delivers precise measurement values for 3D displacements, 3D deformations and surface strains.



Benefits at a glance

- Multi-sensor system: optical LVDT, optical acceleration sensor, optical strain gage and extensometer in one system
- Thousands of 3D measuring points for detailed deformation analysis, especially with non-linear and inhomogeneous deformation behavior
- Saves time in measurement preparation thanks to the non-contact measuring principle
- Backside Illuminated (BI) imaging sensor providing higher sensitivity to light and enabling shorter shutter times
- 25 GigE interface in combination with fiber-optical cables for high data transmission rates

Specifications

- 100 frames per second (fps) at full resolution of 24 megapixels (5312 × 4448 pixels)
- 360 frames per second (fps) at full HD resolution (1920 × 1088 pixels)
- Sensor design for maximum flexibility in testing applications
- Modularly expandable with illumination solutions and measurement volumes
- Certified accuracy through acceptance tests in accordance with VDI 2634-1 and VDI 2626

Technical Data

Camera resolution (pixels)	5312 × 4448 pixels
Maximum frame rate (fps)	100 fps at 5312 × 4448 pixels (full resolution) 185 fps at 5312 × 2240 pixels (1/2 image) 270 fps at 5312 × 1472 pixels (1/3 image) 350 fps with a lower resolution of 2656 × 2224 pixels (binning) 360 fps at 1920 × 1088 pixels (full HD)
Standard measurement volume*	
Length × Width (mm)	20 × 18 mm up to 5000 × 4500 mm

* Larger or smaller measuring ranges can be achieved with the ZEISS ARAMIS Adjustable 24M as special solutions. Please do not hesitate to contact our employees on this subject.

Would you like to learn more?