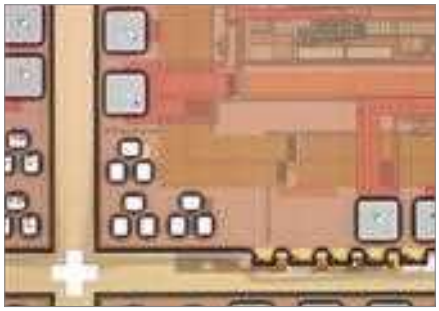
ZEISS Axio Zoom.V16

High Resolution And High Speed: Your Zoom Microscope for Large Fields



Wafer, captured in coaxial incident light with Epi-illuminator Z

Inspection control of coalbrush – courtesy of Aalen University

Axio Zoom.V16, the apochromatic on-axis zoom microscope by ZEISS, delivers both high resolution and a zoom range of 16x. With the combination of the 16x zoom with a high numerical aperture and large working distance, you can achieve resolutions up to twice as high compared to conventional zoom microscopes, even at low and medium magnifications. Zoom seamlessly from overview to the smallest details, or quickly and easily stitch large tile-images at low to medium magnification with just a few shots.

Optimized Zoom for Your Applications

The eZoom technique of Axio Zoom.V16 works with a motorized iris diaphragm coupled to the zoom. Simply select the best mode for your purpose:

- Brightness mode: Observe fluorescence images over the complete zoom range with highest possible brightness.
- Eyepiece mode: This is ideal if you workmainly with ocular observation using conventional illumination. Zoom from large object fields with maximum depth of field to high magnifications with maximum resolution.
- Camera mode: Axio Zoom.V16 adapts to the performance of your camera. You get an optimal relation between resolution and depth of field across the whole zoom range.

EpiRel Produces A Relief-Like Image Contrast

The EpiRel slider in the Epi-Illuminator Z of your Axio Zoom.V16 produces an impressive effect in coaxial incident light when you slightly incline the illumination to produce a relief-like image contrast. Now you will discover textures and small ridges, particularly at high magnification. Objects will take on more contour than in conventional brightfield.

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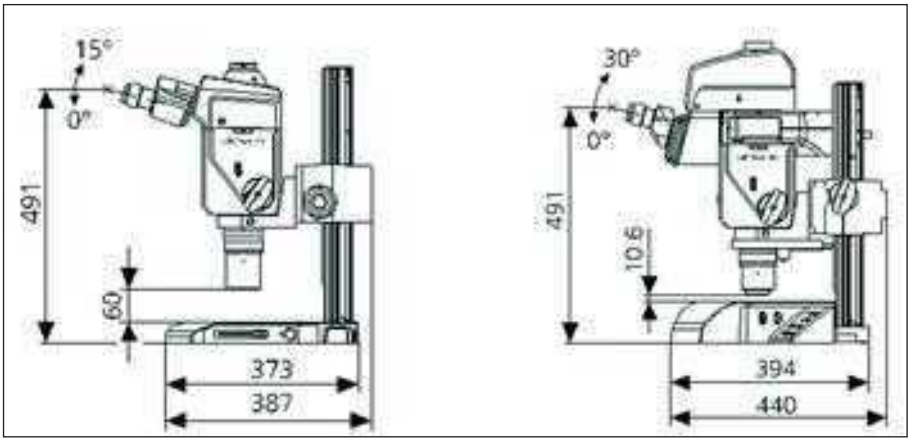

Technical Data:

Stand	Axio Zoom.V16 (manual focus)	Axio Zoom.V16 (focus motor)
Dimensions	387 mm x 545 mm	440 mm x 613 mm
Weight	≥ 22 kg	≥ 33.6 kg
Objectives	PlanApo Z 0.5x/0.125 FWD 114 Apo Z 1.5x/0.37 FWD 30 PlanNeoFluar Z 2.3x/0.57/ FWD 10.6	Plan Z 1.0x/0.25 FWD 60 PlanNeoFluar Z 1.0x/0.25/ FWD 56
Illumination	Cold light sources CL 1500 HAL, CL 4500 LED CRI 90, CL 6000 LED, CL 9000 LED CAN VisiLED ring lights with segmenting function Fiber optic and LED transmitted light systems HXP 200 C with Fluar-Illuminator Z	
Contrast methods	Brightfield, darkfield, oblique light, polarization, fluorescence	
Cameras (recommended)	ZEISS Axiocam 506 color, ZEISS Axiocam 503 color, ZEISS Axiocam HRc, ZEISS Axiocam MRc 5, ZEISS Axiocam ICc 5	
Software (recommended AxioVision modules)	MosaiX (image acquisition scanning stage) Extended Focus (calculation of a sharp image from several focus planes) Interactive Measurement (expanded interactive measurement techniques) Online Measurement (interactive measurement in live image)	
Software (recommended ZEN 2 core modules)	ZEN 2 core - fully control of the motorized microscope, Free Mode and Job Capability for reproducible results Tiles & Positions (scanning of large sample areas followed by automatic stitching of the images) Motorized Extended Focus (creation of images with different focal planes) Measurement (expanded interactive measurement techniques)	

eZoom Special Features:

- eZoom produces images with more precision – the zoom body or 'pancrat' is the core of stereo and zoom microscopes; while zooming, it uses a motor drive to position the lenses of your Axio Zoom.V16 individually, achieving extreme precision.
- Images are twice as sharp – eZoom replaces the mechanical curve with an electronic one, so each zoom body describesits own zoom curve and captures visibly more details.

Suitable Applications:

- Scanner component
- Materialography
- Microelectronics / electronics
- Forensic analysis

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