

Olympus SZX12



Top-class stereo zoom research microscope

SZX12/9 LS

KEY FEATURES

Zoom Unit

SZX12-ZB 12:

The SZX-ZB 12 zoom unit offers a zoom ratio of 1:12.86 (0.7x-9x) currently unmatched anywhere in the world. The diameter of the observation field (31.43mm) is achieved with a 1x objective. The zoom unit has an integrated aperture diaphragm which allows increased depth of focus control for high magnification, helping the SZX12 to deliver an outstanding performance for image observation and recording. The total magnification (objective 1x, eyepiece 10x): 7 / 10 / 12.5 / 16 / 20 / 25 / 32 / 40 / 50 / 63 / 90.

SZX9-ZB 9:

The SZX-ZB 9 zoom unit offers a zoom ratio of 1: 9.05 and a magnification from 0.63x-5.7x and complements the 34.92mm maximum field diameter, achieved with a 1x objective. The lens provides a long working distance and contributes to excellent operation. An optional aperture diaphragm unit (SZX-AS) can be attached. The total magnification (objective 1x, eyepiece 10x): 6.3 / 8 / 10 / 12.5 / 16 / 20 / 25 / 32 / 40 / 50 / 57.

Focusing Unit

SZX-FOF:

Coarse and fine focusing unit: the coaxial coarse/fine focusing knob allows quick, easy focusing. The control knob can be fine-tuned and locked in order to prevent focus drift during observation. A counter balance is installed, ensuring smooth operation even when multiple photomicrography units and video cameras are attached. Coarse handle stroke: 80mm (stroke per rotation:36.8mm), fine handle stroke: 80mm (stroke per

	<p>rotation:1,5mm).</p> <p>SZX-FO: The focus is adjusted as with the SZX-FOF, and can be locked at a chosen setting. Coarse handle stroke per rotation: 21.2mm.</p>
Stand	<p>SZX-ST: Stand; pillar: 270 or 400mm, base dimension: 300(W), x260(D), x30(H)mm; stage clips are mountable</p> <p>SZX-STL: Large stand; pillar: 270 or 400mm, base dimension: 400(W), x350(D), x28(H)mm</p> <p>SZX-STL-2: Extra large stand; pillar: 270 or 400mm, base dimension: 500(W), x350(D), x30(H)mm; stage clips are mountable</p> <p>SZSTU-2: Universal stand; pillar: 270 or 400mm, base dimension: 300(W), x350(D), x85mm(H)</p>
Transmitted Illuminators	<p>SZX-ILLB: Transmitted brightfield illumination, oblique illumination, slit aperture illumination, effected illumination area: O 40mm</p> <p>SZX-ILLD: Transmitted brightfield illumination, darkfield illumination, effected illumination area: brightfield O 63mm; darkfield O 45mm</p> <p>SZX-ILLK: Transmitted brightfield illumination, oblique illumination, effected illumination area: O 40mm</p>
Observation Tubes	<p>SZX-TBI: Tilting binocular head; tilting angle: 5°-45°</p> <p>SZX-TR30: Trinocular head, tilting angle: 30°, light path selection: 2 steps (100% binocular tube, 20% binocular tube and 80% photo)</p> <p>SZX-BI30: Binocular head; tilting angle: 30°</p>
Eyepieces	<p>WHS 10x-H* (F.N. 22) Cross-WHS 10x (F.N. 22 with cross lines) WHS 15x-H (F.N. 16) Cross-WHS 15x (F.N. 16 with cross lines) WHS 20x-H (F.N. 12.5) Cross-WHS 20x (F.N. 12,5 with cross lines) WHS 30x-H (F.N. 7) [* it is possible to insert a micrometer (O 24mm or O 1.5mm)</p>

Objectives	DFPLFL 0.3x, DFPLFL 0.45x, DFPLFL 0.5xPF*, DFPLAPO 1xPF, DFPLAPO 1.2xPF, DFPLFL 1.6xPF, SZX-AL20x (could only be used with DFPLAPO 1xPF) [* PF : Parfocal objectives]
Contrast Methods	Reflected light illumination: Brightfield, oblique and fluorescence observation Transmitted illumination: Brightfield, darkfield and oblique observation, slit aperture illumination
Documentation	<p>A wide range of mount adaptors can be accommodated devices including digital cameras to simplify image filing and transmission with a variety of mounts. With a trinocular head and beam-splitter up to three imaging units can be attached simultaneously to the SZX Series. The Olympus PM20 and the PM30 photomicrography systems can also be used to provide fully automatic exposure, autobracketing, and a choice of spot photometry measurements methods. The PM30 includes data back-up by memory card.</p> <p>Special Feature (only for SZX12): Parfocal objectives are designed for use with a revolving nosepiece. Change of objectives would normally be followed by substantial refocusing which might involve height adjustment of the microscope. This can be carried out rapidly with the fine focusing knob without any need to change the height of the zoom unit. Parfocal objectives with magnification of 0.5x, 1x, 1.2x and 1.6x are available for attachment to the revolving nosepiece.</p>