

## Performance features

### Leica MZ12s and MZAPO stereomicroscopes

Design principle	Multiple-coated, parfocal high-performance optical system with two parallel beam paths (infinity optics) and one main objective (CMO), lead-free
Surface resistance of antistatic material	<10 <sup>11</sup> Ohm/square centimeter, discharge time <2 seconds from 1000V to 100V
Numerical aperture	0.2 with 1.6× planapochromatic objective, 0.125 with 1.0× plano or planapochromatic objective
Resolution	375 line-pairs / mm with 1.0× plano or planapochromatic objective, 600 line-pairs / mm with 1.6× planapochromatic objective
Magnification changer	MZ12s: 12.5:1 zoom, 0.8×–10× MZAPO: 10:1 apochromatic zoom
Engageable ratchet positions	at 1, 1.25, 1.6, 2, 2.5, 3.2, 4, 5, 6.4; 8 (MZ12s)
Magnifications (with 1.0× objective and 10× eyepieces)	MZ12s: 8× to 100× MZAPO: 8× to 80×
Total magnification	MZ12s: 4× to 640× MZAPO: 4× to 512×
Field diameter	0.4mm to 52.5mm
Working distances	60mm (1.0× plano), 135mm (0.5× plano), 97mm (0.63× planapo), 55mm (1.0× planapo), 19mm (1.6× planapo), 91–990mm (achromats)
Planachromatic and planapochromatic objectives	1.0× (plano, planapo), 0.5× (plano), 0.63× (planapo), 1.6× (planapo)
Wide-field eyepieces for eyeglass wearers	Distortion free, 10×/21B, 16×/14B, 25×/9.5B, 40×/6B
Dioptic correction	+5 to –5
Eyecups	Variable degree of eye contact
Binocular tubes	ErgoTube™ 10° to 50° with synchronized interpupillary adjustment Various ErgoModules™
Interpupillary distance	52 to 76mm
<b>Stands, illuminators</b>	
Focusing drive	Coarse, fine, manual and motorized, tiltable for OEM adaptations (bonders)
Length of column	300mm and 500mm, side-faced profile
Microscope carrier	Two basic heights, optics carrier rotatable through 360°, stereoscopic or vertical observation
Swing-arm stand	ESD version with 400/25m column, large stand with 550/50mm column, alternative with clamp for 20–50mm thick table tops
Universal stand	450/50mm or 800/50m column, 52cm × 34cm baseplate, magnetic carrier for stages
Transmitted-light stands	Bright field, bright and dark field, high-performance base
Stages	Various, including rotatable polarization stage
Incident lamps	Inclined, coaxial, vertical, fibre-optic light guides, fluorescence module
<b>Accessories</b>	
Photomicrographic systems	Leica MPS30 and MPS60, fully automatic, with data back
Video, filming	Various configurations, Leica IC A integrated video module, Leica DC 100 and DC 200 digital imaging systems, image manager
Attachments for second observers	For training and education
Drawing tube	For both left- and right-handed users
Double-iris diaphragm	For increasing the depth of field
Measuring graticules	For measuring lengths and for counting
Filter-slide housing	For two gelatine filters
Vertical and oblique observation	45° all-round view by moving the optics rather than the specimen