

Leica MS5
Stereomicroscope



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Performance features

MS5 and MZ6 stereomicroscopes

Design principle	Multiple-coated optical system with two parallel beam paths and one main objective (CMO)
Surface resistivity of antistatic material	<10 ¹¹ ohms per square centimeter, discharge time <2 seconds from 1000V to 100V
Maximum numerical aperture	0.150 with 2.0× achromatic objective or 1.6× planapochromatic objective 0.075 with 1.0× achromatic objective
Resolution	450 line-pairs / mm with 2.0× achromatic or 1.6× planapochromatic objective 225 line-pairs / with 1.0× achromatic objective
Magnification changer	MS5: five-step, 0.63×, 1.0×, 1.6×, 2.5×, 4.0× MZ6: 6:1 zoom, 0.63× to 4.0×
Seven ratchet positions (MZ6)	at 0.8, 1, 1.25, 1.6, 2, 2.5, 3.2
Magnifications	6.3× to 40× (with 1.0× objective and 10× eyepieces)
Total magnification	2× to 320×
Field diameter	0.8mm to 104.2mm
Working distances	81mm (1.0× plano), 97mm (0.63× planapo), 135mm (0.5× plano), 27mm–297mm (achromats)
Planachromatic and planapochromatic objectives	1.0× (plano, planapo), 0.5× (plano), 0.63× (planapo), 1.6× (planapo)
Interchangeable achromatic objectives	1.0×, 1.5×, 2.0×, 0.8×, 0.63×, 0.5×, 0.32×
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
Stands, illuminators	
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 400/25mm column, large stand with 550/50mm column, alternative with clamp for 20–50mm thick table tops
Universal stand	450/50mm or 800/50mm 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
Accessories	
Photomicrographic systems	Leica MPS30 and MPS60, fully automatic, with data back
Video, filming, software for archiving and for image processing	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

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