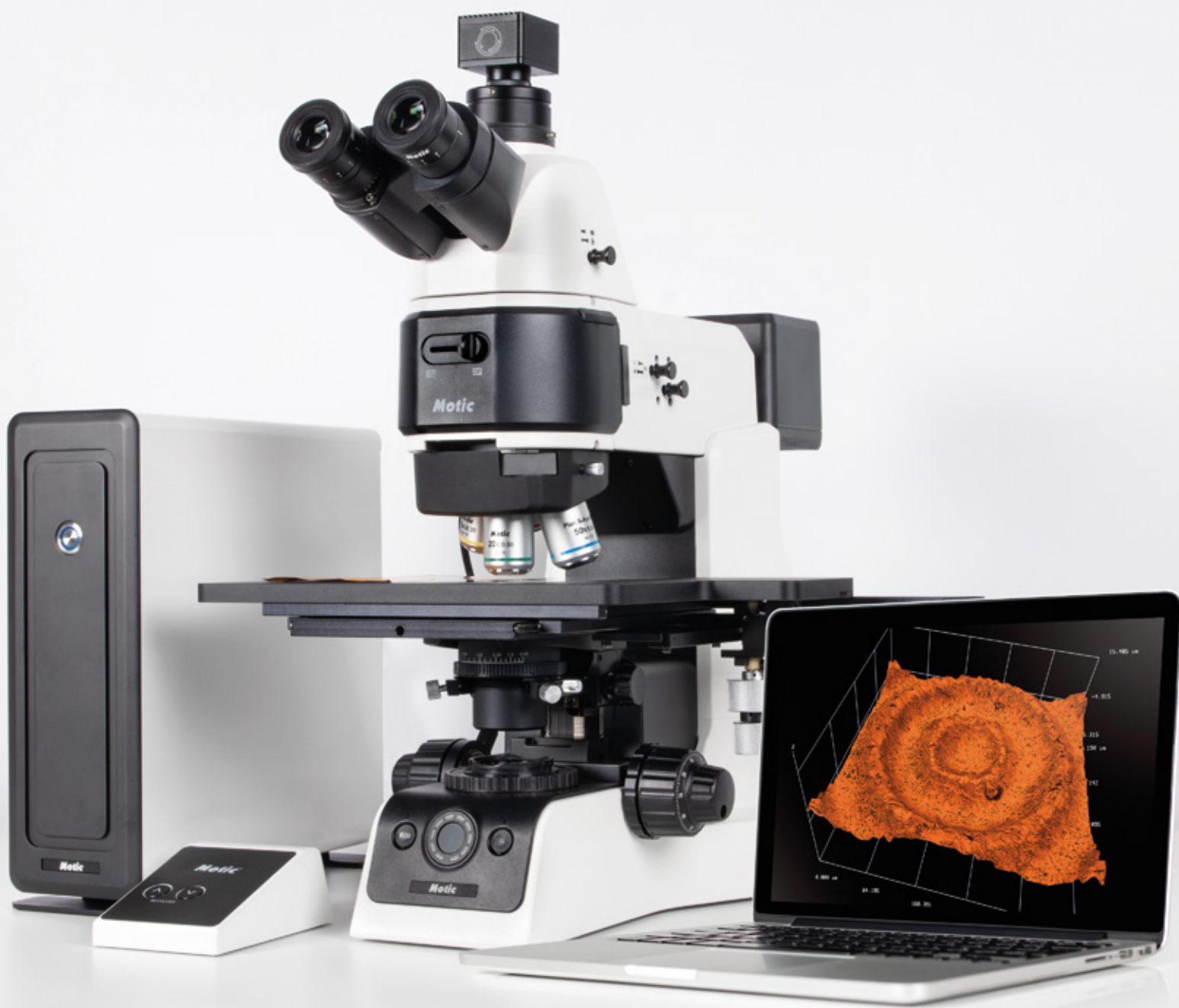


FOCUS ON

Motic[®]

MORE THAN MICROSCOPY



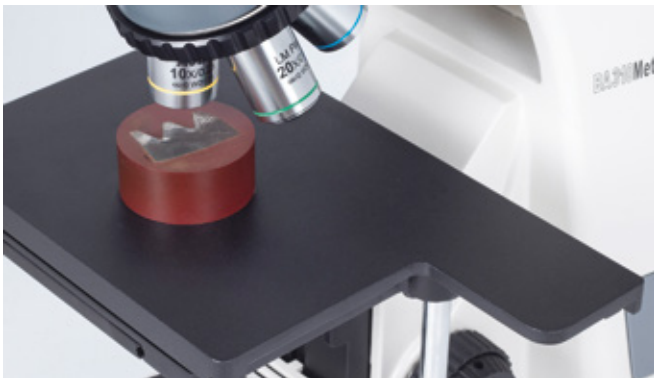
INDUSTRY & MATERIALS

MOTIC'S TOP CHOICES
FOR INDUSTRY APPLICATIONS IN YOUR LABORATORY



INDUSTRY & MATERIALS

Discover Motic's Series of microscopes dedicated to Industrial production and inspection during the manufacturing process and final product quality control.



BA SERIES

BA310 MET
BA310 POL

04



PANTHERA SERIES

PANTHERA TEC MAT
PANTHERA TEC POL

06



PA53 SERIES

PA53 MET

08



PSM1000 SERIES

PSM1000

09



AE2000 SERIES

AE2000 MET

10



SMZ SERIES

SMZ171

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SM7 SERIES

SM7

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MOTICAM SERIES

USB EXPERT LINE

HDMI LINE

13

BA SERIES

BA310MET | BA310POL

Advanced Metallurgical and Polarization microscopes for the examination of diverse samples from material sciences or for birefringent samples.



BA310 MET

- Trinocular head Siedentopf type, 30° inclined, 360° swiveling
- Widefield high eyepoint eyepieces N-WF10X/20mm
- Reversed quintuple revolving nosepiece
- CCIS® LM Plan achromatic objectives LM PL 5X, 10X, 20X, 50X
- Coaxial coarse and fine focusing system
- Epi-illuminator 12V/50W quartz halogen with integrated field and aperture diaphragms and slots for analyzer and polarizer, external lamp house
BA310 MET Trinocular (incident illumination model)
- Mechanical stage 180x140mm hard coated, stroke 75x50mm, built-in low position coaxial stage control
BA310 MET-T Trinocular (3"x2") (incident and transmitted illumination model)
- Mechanical stage 240x140mm with glass plate, stroke 75x50mm, built-in low position coaxial stage control
- Focusable Abbe condenser N.A. 0.85 with iris diaphragm
- Transmitted Koehler illumination quartz halogen 6V/30W with intensity control

Some available accessories: Eyepieces, reticles, polarization add-ons, filters, digital imaging. Please contact your sales representative for more information.

SKU

BA310 MET Trinocular 1100100402042
BA310 MET-T Trinocular (3"x2") 1100100402603



Incident & transmitted illumination



HAL / LED illumination interchangeable



Plan-LM objectives



BA310 MET-H

- Trinocular head Siedentopf type 30° inclined
- Widefield high eyepoint eyepieces N-WF10X/20mm on both eyepieces and rubber eyecups
- Reversed quintuple revolving nosepiece
- CCIS® LM Plan achromatic objectives LM PL 5X, 10X, 20X, 50X
- Stand with column and base 300x300mm
- Coaxial coarse and fine focusing block
- Mechanical stage 180x140mm, stroke 100x80mm, coaxial stage control
- Epi-illuminator 12V/50W quartz halogen with integrated field and aperture and slots for analyzer and polarizer diaphragms, external lamp house

Some available accessories: Eyepieces, reticles, polarization add-ons, filters, digital imaging. Please contact your sales representative for more information.

SKU

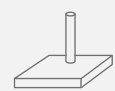
BA310 MET-H Trinocular (Upright image) 1100100403601



Trinocular head Siedentopf



HAL / LED illumination interchangeable



MET pole stand



BA310MET | BA310POL



BA310 POL

- Binocular or trinocular head Siedentopf type, 30° inclined
- Widefield high eyepoint eyepieces N-WF PL10X/20mm with diopter adjustment on both eyepieces and rubber eyecups
- One eyepiece with crosshair reticle and positioning pivot
- Intermediate body with rotatable analyzer 360°, Bertrand lens and slot for compensators
- Reversed quadruple revolving nosepiece, single positions centrable
- CCIS® Plan achromatic Strain-free objectives EC PL P 4X, 10X, 40X S, 60X S
- Coaxial coarse and fine focusing system with tension adjustment
- 360° circular rotatable stage, diameter Ø160mm
- Achromatic swing-out condenser N.A. 0.90/0.13 (strain-free) with iris diaphragm
- Rotatable polarizer, fixed on condenser carrier
- Koehler illumination quartz halogen 6V/30W with intensity control

Some available accessories: Reticles, mechanical stage, compensators, filters, digital imaging. Please contact your sales representative for more information.

SKU

BA310 POL Binocular 1100100402242

BA310 POL Trinocular (20:80 option) 1100100402252



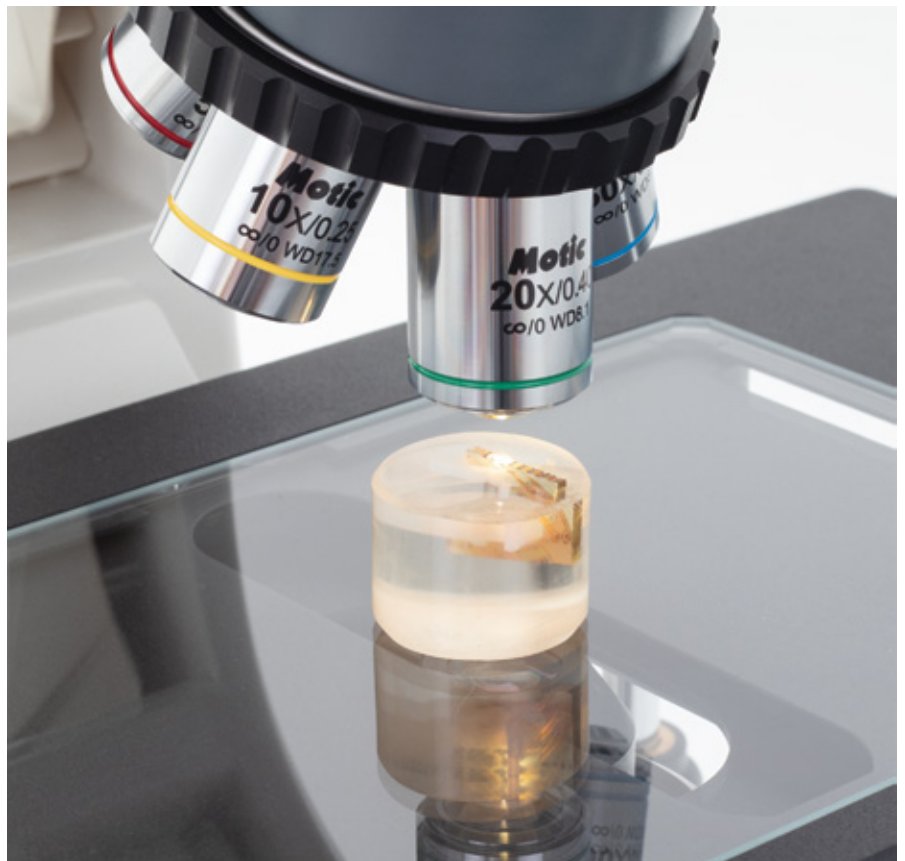
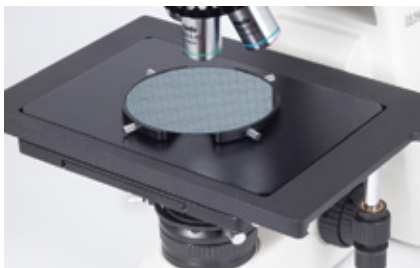
Binocular or Trinocular head Siedentopf



Circular stage 360° rotatable



Centrable quadruple nosepiece



PANTHERA SERIES

PANTHERA TEC MAT | PANTHERA TEC POL

Professional material science and Polarization microscopes for opaque or transparent samples from industry and natural sciences.



Version with incident illumination

PANTHERA TEC MAT BF

- Trinocular head Siedentopf type 25° inclined, 360° swiveling
 - Widefield high eyepoint eyepieces UC-WF10X/22mm
 - Compact incident 3W LED illuminator for BF (brightfield) with integrated field and aperture diaphragms and slots for analyzer and polarizer
 - Reversed coded quintuple nosepiece with light tracer (intelligent Light Management)
 - Plan Achromatic objectives LD PL 5X, 10X, 20X
 - Plan S-Apochromatic objective PL S-APO 50X
 - Coaxial coarse and fine focusing system with tension adjustment
 - Mechanical stage 300x180mm, stroke 150x100mm, built-in low position coaxial stage control
 - Motic Light Tracer: Light memory, sleep mode, nosepiece LED light intensity and mode indicator
- PANTHERA TEC MAT BF-T (incident and transmitted illumination model)
- LED Condenser integrated with collector, Auto pre-set N.A. and adjust automatically, transmitted Darkfield

Some available accessories: Eyepieces, reticles, polarization add-ons, digital imaging. Please contact your sales representative for more information.

SKU

Panthera TEC MAT BF (6"x4") 1100104600191
Panthera TEC MAT BF-T (6"x4") 1100104600201



Trinocular head
Siedentopf Swivelling



6x4"
MET stages



Plan-Achromatic
& Plan Semi-Apo
objectives



Version with incident & transmitted illumination

PANTHERA TEC MAT BD

- Trinocular head Siedentopf type 25° inclined, 360° swiveling
 - Widefield high eyepoint eyepieces UC-WF10X/22mm
 - Compact incident 3W LED illuminator for BF/DF (bright & darkfield) with integrated field and aperture diaphragms and slots for analyzer and polarizer, Smart segmental darkfield ringlight with one button switch
 - Reversed coded quintuple nosepiece with light tracer (intelligent Light Management)
 - Plan Achromatic objectives BD PL 5X, 10X, 20X
 - Plan S-Apochromatic objective BD PL S-APO 50X
 - Coaxial coarse and fine focusing system with tension adjustment
 - Mechanical stage 300x180mm, stroke 150x100mm, built-in low position coaxial stage control
 - Motic Light Tracer: Light memory, sleep mode, nosepiece LED light intensity and mode indicator
- PANTHERA TEC MAT BD-T (incident and transmitted illumination model)
- LED Condenser integrated with collector, Auto pre-set N.A. and adjust automatically, transmitted Darkfield

Some available accessories: Eyepieces, reticles, polarization add-ons, digital imaging. Please contact your sales representative for more information.

SKU

Panthera TEC MAT BD (6"x4") 1100104600221
Panthera TEC MAT BD-T (6"x4") 1100104600231



Incident & transmitted
LED illumination



Motic LightTracer
Smart Illumination



Plan-Achromatic
& Plan Semi-Apo
BD objectives

PANTHERA TEC MAT | PANTHERA TEC POL



PANTHERA TEC POL

- Binocular or trinocular head Siedentopf type, 25° inclined
- Widefield high eyepoint eyepieces UC-WF10X/22mm
- One eyepiece with crosshair reticle and positioning pivot
- Intermediate body with rotatable analyzer 360°, Bertrand lens and slo for compensators
- Reversed coded quintuple nosepiece with light tracer (intelligent Light Management)
- CCIS® Plan achromatic Strain-free objectives UC PL P 4X, 10X, 40X S, 60X S
- Coaxial coarse and fine focusing system with tension adjustment
- 360° circular rotatable stage, diameter Ø160mm
- Achromatic swing-out condenser N.A. 0.90/0.13 (strain-free) with iris diaphragm and fixed polarizer mounted on condenser carrier
- Koehler transmitted illumination halogen module 30W
- Motic Light Tracer: Light memory, sleep mode, nosepiece LED light intensity and mode indicator

Some available accessories: Reticles, mechanical stage, compensators, filters, digital imaging. Please contact your sales representative for more information.

SKU

Panthera TEC POL Binocular 1100104600251
Panthera TEC POL Trinocular 1100104600252



Binocular or Trinocular head Siedentopf



Circular stage 360° rotatable



HAL / LED illumination & °K interchangeable



PANTHERA TEC POL EPI

- Binocular or trinocular head Siedentopf type, 25° inclined
- Widefield high eyepoint eyepieces UC-WF10X/20mm
- One eyepiece with crosshair reticle and positioning pivot
- Intermediate body with compact incident 3W LED illuminator with rotatable analyzer 360°, Bertrand lens, fixed polarizer and slot for compensators
- Reversed coded quintuple nosepiece with light tracer (intelligent Light Management)
- Plan Achromatic objectives LD PL 5X, 10X, 20X
- CCIS® Plan achromatic Strain-free objective UC PL P 40X S
- Coaxial coarse and fine focusing system with tension adjustment
- 360° circular rotatable stage, diameter Ø160mm
- Achromatic swing-out condenser N.A. 0.90/0.13 (strain-free) with iris diaphragm and fixed polarizer mounted on condenser carrier
- Koehler transmitted illumination halogen module 30W
- Motic Light Tracer: Light memory, sleep mode, nosepiece LED light intensity and mode indicator

Some available accessories: Reticles, mechanical stage, compensators, filters, digital imaging. Please contact your sales representative for more information.

SKU

Panthera TEC POL Epi Binocular 1100104600261
Panthera TEC POL Epi Trinocular 1100104600262



Binocular or Trinocular head Siedentopf



Circular stage 360° rotatable



Motic LightTracer Smart Illumination

PA53 SERIES

PA53 MET

High power instruments with multiple automated functions for the analysis of reflecting surfaces in industry and material sciences: surface defects and depth of depressions can be visualized and quantified easily.



PA53 MET

- Trinocular erect image observation tube head, 20° inclined
- Widefield eyepiece WF 10X/25mm with diopter adjustment +/-4
- 100W Quartz halogen lamp house or 10W LED
- Reversed coded quintuple or sextuple nosepiece with slot for DIC
- Colour Corrected Infinity Optical System (CCIS®)
- Mechanical stage 210x170mm, stroke 104x102mm, built-in low position coaxial stage control
- Integrated power supply for halogen 12V/100W or 10W LED light adjustment, voltage indicator with IL and ECO functionality

PA53 MET (Brightfield model)

- Incident intermediate illumination system for BF observation
- Plan S-APO objectives: 5X/0.15, 10X/0.30, 20X/0.50, 50X/0.80

PA53 MET-BD (Bright & Darkfield model)

- Incident intermediate illumination system for BF & DF observation
- Plan S-APO BD objectives: 5X/0.15, 10X/0.30, 20X/0.50, 50X/0.80

Some available accessories: Objectives, motorized nosepiece and stage, large stages, Epi-Fluorescence, polarization, DIC. Please contact your sales representative for more information.

SKU

PA53 MET 1100104600851
PA53 MET-BD 1100104600884



Trinocular erect image observation head



Quintuple or Sextuple nosepiece Coded



Plan Semi-Apo objectives



PA53 MET-BD-T-3D

- Trinocular erect image observation tube head, 20° inclined
- Widefield eyepiece WF 10X/25mm with diopter adjustment +/-4
- Incident intermediate illumination system 100W Quartz halogen lamp house or 10W LED for BF & DF observation
- Reflected frame for 3D Profiler with motorized Z-Axis
- 3D control box and control pad
- Moticom S6 sCMOS sensor/3072x2048/6.3 MP
- Moticom Analysis Professional software – USB and Dongle
- Reversed coded quintuple or sextuple nosepiece with slot for DIC
- Colour Corrected Infinity Optical System (CCIS®)
- Plan S-APO BD objectives: 5X/0.15, 10X/0.30, 20X/0.50, 50X/0.80
- Mechanical stage 210x170mm, stroke 104x102mm, built-in low position coaxial stage control
- Transmitted Koehler illumination system 100W Quartz halogen lamp house or 10W LED and LWD condenser
- Integrated power supply for halogen 12V/100W or 10W LED light adjustment, voltage indicator with IL and ECO functionality

Some available accessories: Objectives, motorized nosepiece and stage, large stages, Epi-Fluorescence, polarization, DIC. Please contact your sales representative for more information.

SKU

PA53 MET-BD-T-3D 1100104600961



Trinocular erect image observation head



3D Profiling System



Plan Semi-Apo objectives

PSM1000 SERIES

PSM1000

The PSM1000 Series are OEM-ready setups for best image results of flat, reflective specimen. ELWD Plan Apochromatic objectives deliver crisp and clear true sided images for fast orientation and manipulation work.



PSM1000 INDUSTRIAL SYSTEM

- Trinocular head Siedentopf type, 30° inclined
- Interpupillary distance adjustment between 55-75mm
- Widefield high eyepoint eyepieces WF10X/24mm with diopter adjustment and rubber eyecups
- 3-lens change-over turret; 1X UV/VIS (optimized for 355nm – 532nm), 1X IR/VIS (optimized for 532nm-1064nm) and 2X
- Upright image for easy manipulation work
- Analyzer and Polarizer slots
- Quadruple nosepiece with click stops for precise magnification changes; each position individually centrable with one reference position
- Mounting thread for the objectives M26 X 1/36" (0.706)
- Coaxial coarse and fine focusing system (rated for 20Kg) with 1 micron minimum increment; with tension adjustment
- Port for light guide
- Built-in Aperture diaphragm
- Laser safety kit; shims and laser safety pin
- Compact footprint stand with 150 x 100 mm XY mechanical stage

Objectives not included, available under request.

Some available accessories: Eyepieces, reticles, objectives, polarization, FO illuminator, digital imaging. Please contact your sales representative for more information.



PSM1000 HEAD AND FOCUSING SYSTEM

(version only with head and focusing system)

SKU

PSM1000 INDUSTRIAL SYSTEM PP99777001IND
PSM1000 HEAD AND FOCUSING SYSTEM PP99777001



Trinocular head
Siedentopf



Centration
quadruple nosepiece



Coaxial focusing
coarse & fine
1µm precision



PLAN APO objectives DIN 95 mm



AE2000 SERIES

AE2000 MET

The AE2000MET Inverted metallurgical microscopes, allows material research with Incident Brightfield or Darkfield objectives for the inspection of bulky samples.



AE2000 MET

- Trinocular head Siedentopf type, 45° inclined, 360° swiveling
- Widefield high eyepoint eyepieces N-WF 10X/20mm
- Side facing quintuple nosepiece
- Coaxial coarse and fine focusing system
- Hard coated mechanical stage with round and oval stage inserts
- Halogen Koehler illumination 12V/100W with external lamp house, intensity control and Auto-OFF function

AE2000 MET Trinocular 100W (LM PL objectives) model (Brightfield)

- CCIS® LM Plan achromatic objectives LM PL 5X, 10X, 20X, 50X
- Adapter for brightfield objectives (to be used with LM PL objectives) 4 units

AE2000 MET Trinocular 100W (LM BD objectives) model (Bright & Darkfield)

- CCIS® LM BD Plan achromatic objectives LM BD PL 5X, 10X, 20X, 50X

Some available accessories: Eyepieces, reticles, polarizations add-ons, filters, digital imaging. Please contact your sales representative for more information.

SKU

AE2000 MET Trino 100W (LM PL objectives) 1100103800158
AE2000 MET Trino 100W (LM BD objectives) 1100103800175



Brightfield & Darkfield



Halogen incident illumination



Energy-saving Auto ON-OFF



SMZ SERIES

SMZ171

Flexible stereo microscopes for research applications in material science. OEM-ready, the optics can be implemented also in ESD-sensitive environments of manufacturing electronic industries.



SMZ-171

- Greenough zoom optical system
- Binocular or trinocular head, 45° inclined, 360° rotating
- Widefield adjustable eyepieces N-WF10X/23mm
- 6.7:1 Zoom ratio, WD=110mm
- Objective magnification range: 0.75X-5X
- Pole type stand SMZ-171 with large working area and head holder
- Coarse focusing system with tension adjustment



Modular system option available
SKU SMZ-171-BH Head 1100200600751

Industrial Boom stands available,
for larger samples and longer
working distances

SKU
SMZ-171-BP 1100200600758
SMZ-171-TP 1100200600762



Greenough
Optical System

0.75X
5X

Zoom
magnification



Without
illumination

SMZ-171 (LED VERSIONS)



- Greenough zoom optical system
- Binocular or trinocular head, 45° inclined, 360° rotating
- Widefield adjustable eyepieces N-WF10X/23mm
- 6.7:1 Zoom ratio, WD=110mm
- Objective magnification range: 0.75X-5X
- Pole type stand SMZ-171 with large working area and head holder
- Coarse focusing system with tension adjustment
- Incident and transmitted LED illumination 3W with independent intensity controls
- Transmitted light with tilting reflector (oblique illumination)



Modular system option available
SKU SMZ-171-BH Head 1100200600751

Industrial Boom stands available,
for larger samples and longer
working distances

SKU
SMZ-171-BLED 1100200600754
SMZ-171-TLED 1100200600766

0.75X
5X

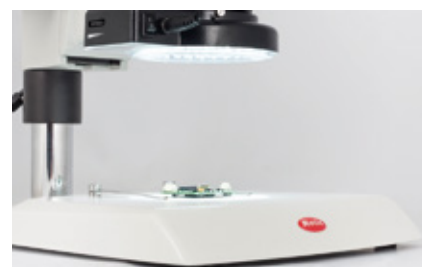
Zoom
magnification



LED incident
illumination



LED transmitted
illumination



SM7 SERIES

SM7

For all users from industry and material sciences fields, the SM7 models feature an outstanding optical performance, focusing on all key issues of this microscope type like color, resolution and shape.



SM7TR-P A1X

- Galilean infinity optical design. Common Main Objective (CMO)
- Trinocular head, 30° inclined
- Widefield high eyepoint eyepieces UC-WF10X/22mm with diopter adjustment on both eyepieces and rubber eyecups
- Interpupillary distance adjustable range 55 to 75mm
- 7:1 Zoom ratio, range 0.8X-5.6X
- Zoom magnification indication: 10-step, 0.8, 1, 1.25, 1.6, 2, 2.5, 3.2, 4, 5, 5.6
- Adjustable click stop for each zoom magnification
- Plan achromat objective 1X
- 90mm working distance
- Fixed stand with head holder and large plain base
- Coarse focusing system with tension adjustment

Some available accessories: Industrial stands, illuminators, digital imaging.
Please contact your sales representative for more information.

SKU
SM7TR-P A1X 1100201800021



CMO
Optical System

7:1 Zoom
ratio



Without
illumination



SM7TR-TLED APO1X

- Galilean infinity optical design. Common Main Objective (CMO)
- Trinocular head, 30° inclined
- Widefield high eyepoint eyepieces UC-WF10X/22mm with diopter adjustment on both eyepieces and rubber eyecups
- Interpupillary distance adjustable range 55 to 75mm
- 7:1 Zoom ratio, range 0.8X-5.6X
- Zoom magnification indication: 10-step, 0.8, 1, 1.25, 1.6, 2, 2.5, 3.2, 4, 5, 5.6
- Fixed stand with head holder and large plain base
- Plan Apochromat objective 1X
- 81mm working distance
- Fixed stand with LED 10W Incident/Transmitted illumination and large plain base
- Coarse focusing system with tension adjustment

Some available accessories: Industrial stands, illuminators, digital imaging.
Please contact your sales representative for more information.

SKU
SM7TR-TLED APO1X 1100201800051



CMO
Optical System



LED incident
illumination



LED transmitted
illumination



MOTICAM SERIES

USB EXPERT | HDMI

Display your samples on your computer or using a TV screen or projector and view, capture, edit, measure, create reports, and easily share your work with anyone in just a few clicks.



SKU

Moticam S1 1100600101081
Moticam S3 1100600101091
Moticam S6 1100600101111
Moticam S12 1100600101211

Moticam S20 1100600101401
Moticam Pro S5 Lite 1100600101101
Moticam Pro S5 Plus 1100600101121



Sensor



USB 3.1



Fast frame rates



Compatibility



Computer software
Motic Images Plus 3.1

USB EXPERT LINE

MOTICAM S SERIES

High-grade sCMOS cameras for an ultimate imaging result

- Attachable digital C-mount camera
- Sensor: sCMOS
- Live resolution: from 1MP up to 20MP
- Output: USB 3.1
- Software: Motic Images Plus 3.0 for Windows, OSX and Linux
- Global Shutter (only the Moticam Pro S models)



SKU

Moticam 1080X 1100600101481
Moticam 4000 1100600101522
Moticam 1080N 1100600101651
Moticam 1080N BMH (with integrated screen) 1100600101671
Moticam 1080N INT (intermediate module only for BA Series) 1100600101681



Sensor



Full HD 1080



4K



HDMI



SD



LIVE



Built-in software
(no computer needed)

HDMI LINE

Standalone HDMI cameras with on-board software. Display your images on a screen and work with a mouse without the need of a computer

- Attachable HDMI cameras
- Sensor: CMOS
- Live resolution: FullHD (Moticam 1080 models) or 4K (Moticam 4000)
- Output: HDMI, USB, SD card and 2 USB ports for external devices
- Software: embedded software to work directly on a screen with a mouse. No computer needed.



Motic Images Plus 3.0 & 3.1

Our versatile & well-known free microscopy software for computers.



On-board software

The freedom of working with your TV screen and a mouse via HDMI. No computer needed!



Motic®

Your Trusted Microscopy Partner



Optical expertise

Providing excellent contrast and clarity images thanks to its 35 years of innovation and manufacturing expertise.

Motic is a pioneering company boasting over 35 years of continuous growth and expansion, specializing in the manufacturing of microscopy solutions covering a wide range of application fields, from education, life sciences, and research to industry applications, and digital pathology systems. With a foundation built on optical expertise, meticulous customer service, and a dedication to enhancing the microscopy experience, the company has ascended to a global brand accessible to all. Committed to advancing healthcare and bolstering scientific research, Motic focuses on innovative digital solutions tailored to meet today's needs and exceed tomorrow's expectations.



Heartfelt Customer Service

Always by your side to support all your needs and doubts on microscopy.



Global brand

An international network ready to empower the potential of microscopists throughout the world.



At everyone's Reach

Customized solutions within the reach of educators, technicians and researchers.

CE