

Motic®

avantor™
delivered by **VWR™**

VWR.COM



Routine-Lab



Education



Biomedical



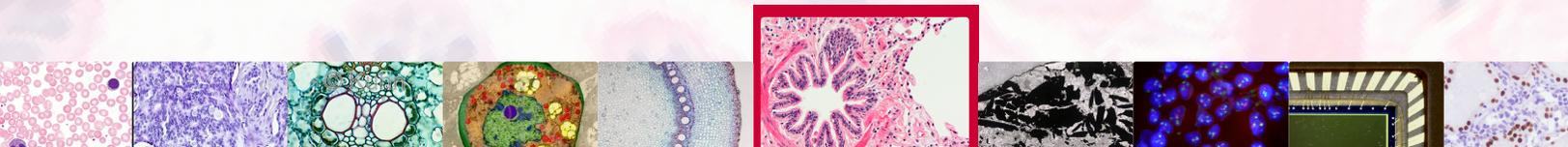
Research

Global Leader in Microscopy Solutions

Complete line of microscopes, and digital imaging solutions



SCIENTIFIC RESEARCH APPLICATIONS



PA43 BIO Series

Routine, clinical-lab grade microscopes

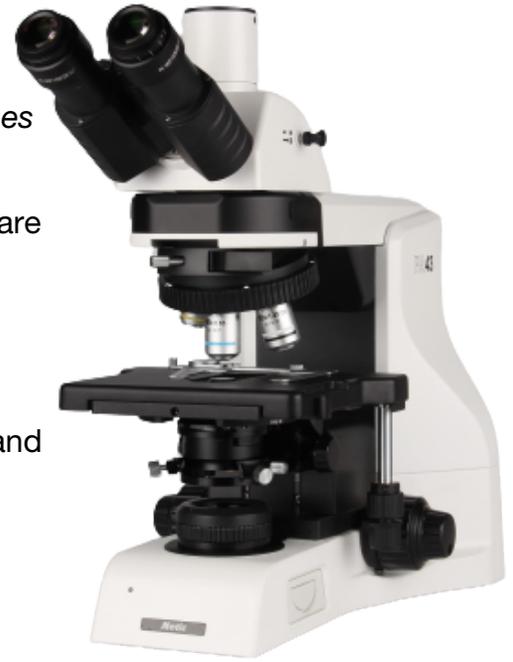
The PA43 BIO has a strong selection of contrast accessories that are available and easily upgradable to meet different requirements:

- Phase contrast methods for various microbiology applications.
- Darkfield accessories for blood cell studies for natural therapy.
- Polarizing contrast accessories for protein crystal, tissue, gout and kidney stone observations.

Features

- Kohler illumination with option of Halogen or LED illumination
- Environmentally Friendly ECO function
- Consistent, Even Illumination with IL Function
- Rackless stage

Packages (Microscope + Camera)



PA43 BIO Standard
VWR Cat. No. 76614-952

PA43 BIO PH
(Basic Configuration)
VWR Cat. No. 76614-954

PA43 BIO Pathology
VWR Cat. No. 76615-054



PA43 BIO Trinocular Routine Lab
6MP Digital Microscope Package
VWR Cat. No. 76615-052



PA43 BIO Trinocular Routine Lab
HDMI-WIFI Microscope Package
VWR Cat. No. 76615-048



PA43 BIO Trinocular Routine Lab
BMH4000 Tablet Microscope Package
VWR Cat. No. 76615-050

PA53 BIO Series

Superior microscopy solutions, research grade

- Ergonomic design helping to reduce user fatigue during extended periods of use
- Feature intuitive control layout for optimized and efficient workflow
- Equipped with transmitted, full Kohler 100W halogen illumination
- Equipped with super wide-field FN23, diopter adjustable eyepieces
- Come standard with multifunctional illumination control knobs
- An automatic power saving mode is engaged whenever an operator leaves temporarily
- Consistent and even illumination with IL Function



PA53 BIO
(Basic Configuration)
VWR Cat. No. 76614-946

PA53 BIO
(High-end Configuration)
VWR Cat. No. 76614-948

PA53 BIO FS6 Series

Multi-channel fluorescence for research



- The coded fluorescence turret automatically remembers the fluorescence channel if changed
- Close contact with the operating panel of the LUMOS light source ensures smooth handling and managing of multi-stained samples
- Motic Fluorescence Imaging Software plug-in for Motic Images Plus 3.0 is included with all PA3 BIO FS6 packages.
- Expanded lifespan in comparison to mercury bulbs: Factor 100
- Instant On/Off: Unlike traditional mercury-arc lamps which take up to 20 minutes to reach constant brightness, the LUMOS FL is ready for use at the flip of a switch
- Individually control of each LED channel

PA53 BIO FS6
VWR Cat. No. 76614-944

PA53 BIO FS6 EDF
VWR Cat. No. 76614-950

PA53 MET Series

Ultimate metallurgical optical solutions

- High-performance Motic objective lenses provide excellent clarity in any observation environment
- Customizable optics and lighting systems
- High-speed, high-efficiency, and intelligent functionality from our Latest Digital Technology
- Creative imaging solutions with superior image processing capabilities



PA53MET-100W RI
VWR Cat. No. 76614-942

PA53MET-BD-100W RI
VWR Cat. No. 76637-484

PA53MET-T-RTI
VWR Cat. No. 76637-482

PA53MET-BD-T-RTI
VWR Cat. No. 76637-486

Panthera TEC MET Series

Instructional material science microscopes



- High value for the inspection of semiconductors and compound materials
- Brightfield, Darkfield and simple Polarization contrast are combined with a new segmental illumination
- Compact Epi illuminator carries a slot for polarizer and analyzer, ready for Polarization contrast and to reduce internal reflections
- The extended 22mm Field of View (FOV) offers 21% more visual area in comparison to a basic 20mm FOV system
- The beam split of the trinocular versions (25° viewing angle) is fixed by 50/50 (vis/photo)
- Incident/transmitted stand type for compound materials additionally carries a transmitted LED illumination system with 39 LEDs mounted in an LED condenser

Panthera TEC MET (BF/RL 6x4 Stage)
VWR Cat. No. 76557-522

Panthera TEC MET (BD/DF/RL 6x4 Stage)
VWR Cat. No. 76614-928

Panthera TEC MET (BF/RL/TL 6x4 Stage)
VWR Cat. No. 76614-924

Panthera TEC MET (BD/DF/RL/TL 6x4 Stage)
VWR Cat. No. 76614-932

Panthera TEC POL Series

Professional polarization microscopes

- In incident light, a 3W LED is integrated in a Brightfield illumination setup with Aperture and Field diaphragm
- Feature UC Plan Achromat objectives with focus on a strain-free mounting for maximum darkness of the image background
- A 5-fold encoded nosepiece memorizes the light intensity for each objective position
- The compact Epi illuminator carries a slot for polarizer and analyzer, ready to set up Polarization contrast and to reduce internal reflections
- The incident/transmitted stands additionally carry a Full Koehler illumination with LED/Halogen interchangeability
- The 360° rotatable stage runs smooth for an easy positioning of the sample



Panthera TEC POL (BIN)
VWR Cat. No. 76557-524

Panthera TEC POL (TRIN)
VWR Cat. No. 76614-936

Panthera TEC POL EPI (TRIN)
VWR Cat. No. 76614-940

Panthera TEC POL Digital
VWR Cat. No. 76614-972

Panthera TEC POL EPI Digital
VWR Cat. No. 76614-974

SM7 CMO Stereo Zoom Series

Superior imaging quality stereomicroscopes



- Features an optical performance with true colour reproduction, high resolution and low distortion
- Stand with Incident/Transmitted LED light supplies variable illumination
- Ultra-flat stand bases for a relaxed positioning of hands and forearms facilitate lengthy preparation work
- Advanced ergonomic design maximizes efficient usage and minimizes fatigue
- Galilean Optics of the SM7 show a 7:1 Zoom system, resulting in a standard magnification range of 8X-56X
- 1X Plan-Apochromatic objective with a Working Distance of 81mm is available for the best possible image results
- Resolution of the 1X Apochromatic objective which makes SM7 especially interesting for technical applications

Binocular

SM7-7B-PACH
VWR Cat. No. 76614-964

SM7-7B-TACH
VWR Cat. No. 76614-968

SM7-7B-P
VWR Cat. No. 76614-966

SM7-7B-T
VWR Cat. No. 76614-970

Trinocular

SM7-7TR-PACH
VWR Cat. No. 76614-956

SM7-7TR-TACH
VWR Cat. No. 76614-960

SM7-7TR-P
VWR Cat. No. 76614-958

SM7-7TR-T
VWR Cat. No. 76614-962

Moticam S Series

Digital camera expert line

Motic new sCMOS cameras, designed by German engineers and manufactured by professionals represent an impressive impetus to microscope camera performance. With a member of this product line the door for new application fields opens wide. The accelerated data readout enables to work on fast phenomena in biology and industry.



The Starting Point



Moticam S1
VWR Cat. No. 76615-022

A Good Balance



Moticam S3
VWR Cat. No. 76615-028

Maximum Details



Moticam S12
VWR Cat. No. 76615-024

Maximum Resolution



Moticam S20
VWR Cat. No. 76615-026

Publish



Moticam S6
VWR Cat. No. 76615-030

Moticam S6 Mono
VWR Cat. No. 76615-032

Low Light,
Fast Phenomena



Moticam ProS5 Lite
VWR Cat. No. 76615-018

Ultimate Solution,
Affordable



Moticam ProS5 Plus
VWR Cat. No. 76615-020

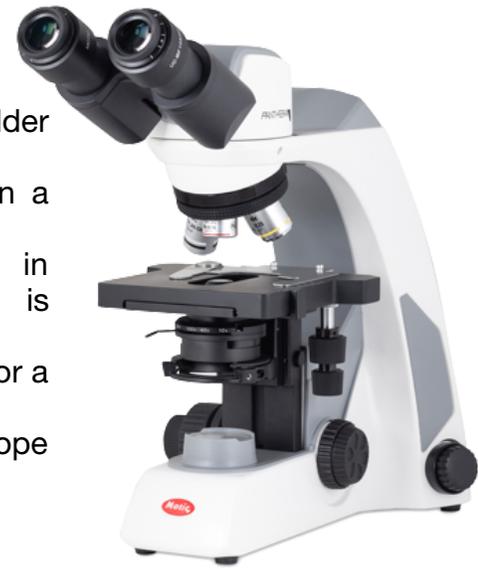
Panthera E2 Series

Newest generation of educational light microscopes

- Reversed 4-fold nosepiece, a rackless X/Y-stage with standard slide holder and upper limit stop fulfill users demands
- Equipped with new Ultra Contrast (UC) Plan Achromatic objectives in a range from 4X to 100X magnification
- The optional 100X/0.8 “Dry objective” is especially favourable in environments where the time-consuming immersion procedure is considered as too difficult and complicated
- The low consumption LED light source in a Fixed Koehler setup stands for a “cool” illumination with a long lifetime
- A USB port in the stand grants the functionality of the microscope independent from the mains by a power bank

Binocular
VWR Cat. No. 76480-306

Trinocular
VWR Cat. No. 76480-310



Panthera C2 Series

Revolutionary technical future-orientated solutions

- Bright Field is the standard, Phase Contrast, Pol Contrast, objectives with/without cover glass correction, optional LED Fluorescence modules with variable filter combinations
- The new Plan UC Achromatic objectives, from 2X to 100X magnification range, show significantly improved image contrast
- A Field of View of 22mm indicates one more step closer to the High-End level of overview
- A 30W Halogen bulb can be replaced by a 3W LED of different color temperatures
- A Full-Koehler setup for transmitted light is self-evident

Binocular
VWR Cat. No. 76480-314

Trinocular
VWR Cat. No. 76480-318

Simple Phase Package
VWR Cat. No. 76480-320

Phase Package
VWR Cat. No. 76480-322

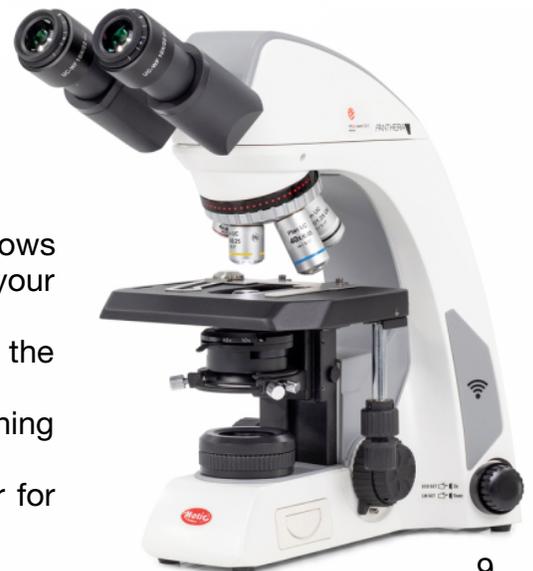


Panthera Cloud

Smart microscope - upgraded

- The Smart CAM digital head and its ImagingOnDevice System allows you to instantly capture what you are viewing with the tip of your finger
- Work in FullHD through the HDMI port directly on a screen with the help of a mouse, or work with your Tablet and the Panthera App
- Send your live image to your tablet or smartphone by simply scanning the QR-code on the top of the Tubehead cover via QRlink system
- Connect it to a network to run a DigiClass, for remote sharing or for working with your computer

VWR Cat. No. 76595-458



BA210E Series

Easy to use, easy to operate, educational

- Superior improvements both in optical and mechanical performance.
- New rackless stage concept without prominent gear rack allows even more convenient use of the x/y movement
- Has an easy interchangeability of its 6V/30W Halogen bulb with LED modules of different colour temperatures (4500K, 6000K)
- Fully corrected intermediate image for digital access, delivering professional optical performance also in education and training situations
- With current RoHS standards and thus avoids lead-containing materials in student environments



Binocular

VWR Cat. No. 76635-348

Trinocular

VWR Cat. No. 76635-284



BA410E Series

Routine-lab microscope for transparent samples

- The optics starts with the standard EC-H Plan Achromat series from 2X to 100X magnification
- Respective Phase contrast objectives (positive & negative version) are derived from these Brightfield lenses
- Rackless stage with ceramic insert gives a long-time stability to sample positioning, enabling a fast scanning
- Feature a 30° viewing angle for maximum comfort
- Adjustable interpupillary distance of 48-75mm
- Light memory function based on an encoded 6-fold nosepiece
- High-quality condenser with NA 1.25 and aperture diaphragm is implemented

Binocular

VWR Cat. No. 76595-440

Trinocular

VWR Cat. No. 76595-442

Complete Epi-Fluorescence Attachment
VWR Cat. No. 10025-414

DAPI/Hoechst/AlexaFluor 350
VWR Cat. No. 76637-466

EGFP/FITC/Cy2/AlexaFluor 488
VWR Cat. No. 89403-642

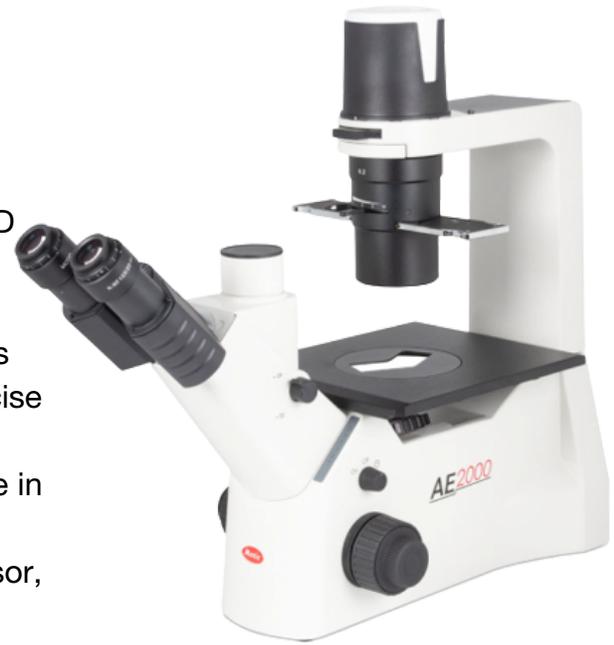
TRITC/Cy3/TagRFP/AlexaFluor 546
VWR Cat. No. 76637-468

AE2000 LED Inverted Series

(with PL PH 20X)

Inverted microscopes for routine microbiology

- Flexible optical concept to meet best image quality
- Robust design for a long lifetime under rough lab conditions
- In full accordance with Motic's CCIS® Infinity System, the LWD Plan Achromatic objectives with an ingenious Phase contrast concept deliver a remarkable image quality
- 20X Phase Contrast objectives are an integral part of packages
- The AE2000 stand carries a quadruple nosepiece with a precise click stop of objective positions
- Rich illumination power is given by the 3 Watt LED light source in a Fixed-Koehler setup
- The Auto ON/OFF function, based on a built-in IR-sensor, deactivates the microscope in case it is left by the user



Binocular
VWR Cat. No. 76595-450

Trinocular
VWR Cat. No. 76595-448

AE31E LED Inverted Series

Upgraded Inverted microscopes for routine microbiology



- In full accordance with Motic's CCIS® Infinity System, the new LWD Plan Achromatic objectives with an intelligent Phase contrast concept deliver a remarkable image quality
- The AE31E stand carries an encoded 5-fold nosepiece
- Rich illumination power is given by the 3 Watt LED light source in a Full-Koehler configuration
- An upgrade with fluorescence is offered for the entry level of research applications

Documentation is facilitated by the 100:0/0:100 light split option for shortest possible exposure times

Binocular
VWR Cat. No. 76595-438

Trinocular
VWR Cat. No. 76595-436

Complete Epi-Fluorescence Attachment
VWR Cat. No. 10025-352

DAPI/Hoechst/AlexaFluor 350
VWR Cat. No. 76637-466

EGFP/FITC/Cy2/AlexaFluor 488
VWR Cat. No. 89403-642

TRITC/Cy3/TagRFP/AlexaFluor 546
VWR Cat. No. 76637-468

SMZ-160 Stereo Series

Basic zoom stereo microscopes

- Comes with 1:6.4 zoom range (0.75x-4.5x), all metal body with classic illumination
- Ball bearing focusing system provides accurate and stepless focusing even at high magnifications
- The metal body ensures years of use without comprising quality
- LED illuminated stand state of the art 3W LED illumination with colour temperature close to natural light (5000K-6000K)
- Wide range of illumination options can be combined with the SMZ-160 optics, such as ring light solution which is recommended for a shadow-free image

SMZ-160-BLED
VWR Cat. No. 76595-454

SMZ-160-TLED
VWR Cat. No. 76595-456



SMZ-171 Stereo Series

Flexible stereo microscopes

- The optical performance with improved transmission rates in higher magnifications is combined with reliable mechanics for daily usage
- The Greenough optical system delivers crisp and clear images with a zoom range of 1:6.7 (0.75x-5x)
- 5 click-stops within the smooth zoom allow a precise reproduction of magnifications for measuring purposes
- A large Field of View is ensured by the standard 10X/23 eyepieces
- The large working distance of 110mm gives sufficient space for preparation and repair work, using the stunning depth of view for a convincing 3D upright image

SMZ-171-BLED
VWR Cat. No. 10767-536

SMZ-171-TLED
VWR Cat. No. 10767-540



Moticam A Series

Digital cameras starter line

- Flexibility through VARIATION, INHERIT knowledge to the next generation, SELECTING everything you need whilst saving TIME and being able to ADAPT
- Ultimately developed and designed for newcomers in digital imaging and young explorers with ambitious goals
- Simple to use, without time consuming training
- Package includes CS ring adaptor, focusable lens, 30mm and 38mm eyepiece adapters, USB 2.0 cable, Motic 4-dot calibration slide, macro tube, Calibration card

Moticam A5
VWR Cat. No. 76538-690

Moticam A8
VWR Cat. No. 76538-692

Moticam A16
VWR Cat. No. 76538-694

VWR Cat. No. 76559-276

Moticam 1080X

Multi-output camera



- Focused on fast live images in 1080p Full HD
- Direct image/video recording on SD card is a flexible way to save portable data without computer
- Alternative USB image signal is sent by cable to a computer or laptop for an easy use of Motic Images 3.0 software
- Package includes 12V Power Adapter, CS Ring, Motic 4-dot calibration slide, Dust Cap, Manual, 12mm lens, Adapter $\phi 30/\phi 38$, Macro Tube, Macro Calibration card

Moticam 4000

VWR Cat. No. 76559-272

HD affordable multi-tasking camera

- Dedicated to documentation of microscopic results with a clear focus on maximum colour fidelity and fast live image
- Does not require a computer for standard operation
- Comes with an on-board software that will allow you to use it through its HDMI port, and with a mouse connected to the USB port of the camera
- Package includes 12V Power Adapter, CS Ring, Motic 4-dot Calibration Slide, HDMI Cable, Manual, 12mm lens, Adapter $\phi 30/\phi 38$, Macro Tube



Moticam BMH 4000

VWR Cat. No. 76559-274

Full HD standalone camera

- C-Mount multitasking microscopy camera, that delivers an impressive 1080p Full HD live image with maximum colour fidelity on an integrated LCD screen
- Does not require a computer for standard operation
- Comes with an on-board software that will allow you use it through its 11.6" Full HD integrated screen, with a mouse connected to the USB port of the camera
- Package includes 12V Power Adapter, CS Ring, Motic 4-dot Calibration Slide, HDMI Cable, Manual, 12mm lens, Adapter $\phi 30/ \phi 38$, Macro Tube



VWR Cat. No. 76595-460

Moticam X5

Streaming Wi-Fi camera



- A compact Wi-Fi camera to share live images with up to 6 devices at the same time
- Powerful high-res solution to turn your microscope into a Wi-Fi station
- Use your computer with Motic Image Plus 3.1 Software for further image processing
- Package includes CS ring adaptor, focusable lens, 30mm and 38mm eyepiece adaptors, USB 2.0 cable, Motic 4 dot calibration slide, macro tube, Motic Images Plus 3.0 PC/OSX/Linux

Moticam BTI10

VWR Cat. No. 76595-464

Wi-Fi microscopy solution with 10" tablet

- Consisting of a 4MP camera with a built-in adjustable bracket that allows you to mount your own tablet
- Camera can be connected via Wi-Fi to an iOS or Android tablet
- Help microscope users visualize, edit and share the microscope images, enabling computer-free digital microscopy
- Package includes CS ring adaptor, Motic 4-dot calibration slide, macro calibration card, universal power supply 100V-240V (CE)





Motic Instruments USA, Inc.

Member of the Motic Group

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