

Microscopes Catalogue



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MICROSCOPES

OPXICA Industries offers a comprehensive range of advanced microscopes, including binocular, coaxial, digital, dissecting, fluorescence, and research-grade models. Designed for accuracy and durability, our microscopes cater to educational, medical, and laboratory applications such as tissue analysis and detailed observation. From junior learning to professional research, OPXICA ensures high-quality optics, user-friendly operation, and reliable performance, making it an ideal choice for schools, colleges, laboratories, and healthcare institutions. Our products are engineered with modern technology, ensuring clear imaging, precision results, and long-lasting efficiency for diverse scientific needs.



DISSECTING MICROSCOPE

DISSECTING MICROSCOPE

With High Eye-Point Optics & Adjustable Mirror Illumination (10X-20X)
Model No. DM-101

Descriptions

A compact and reliable dissecting microscope designed for detailed observation and fine dissection work. It features high eye-point lenses (10X and 20X) with a jointed arm for scanning the entire stage area. The glass stage with interchangeable background plates and integrated mirror provides clear illumination. Equipped with a smooth rack-and-pinion focusing system and detachable hand rests, it ensures stability and precision, making it ideal for educational, laboratory, and research applications.

Technical Specifications

- Magnification: 10X-20X with high eye-point interchangeable lenses
- Viewing System: Monocular head with jointed arm for full stage scanning
- Focusing System: Rack & pinion mechanism with smooth control on both sides
- Stage: Glass stage (85 × 75 mm) with spring clips and interchangeable plates
- Illumination: Plano-concave mirror for natural and external light
- Construction: Heavy-duty base with stable support

DM-101



- Accessories: Detachable hand rests for steady dissection work



**10X-20X
MAGNIFICATION**
High eye-point
interchangeable lenses



JOINTED ARM
Allows full scanning
of entire stage area



**RACK & PINION
FOCUSING**
Smooth control
on both sides



GLASS STAGE
85 × 75 mm with spring clips
and interchangeable
white/black plates



**MIRROR
ILLUMINATION**
Plano-concave mirror for
natural and external light

Parameter	Specification
Microscope Type	Dissecting Microscope
Magnification	10X-20X (Interchangeable High Eye-Point Lenses)
Viewing System	Monocular with jointed arm for full stage scanning
Focusing System	Rack & Pinion, smooth control on both sides
Stage	Glass stage (85 × 75 mm) with clips & interchangeable plates
Illumination	Plano-concave mirror for natural/external

DISSECTING MICROSCOPE

ADVANCE DISSECTING MICROSCOPE

With Precision Optics & Adjustable Illumination (10X-20X)

Model No. ADM-102

Descriptions

A robust dissecting microscope designed for precision observation and manipulation of specimens. It features a heavy-duty base, smooth rack-and-pinion focusing, and a large working stage with detachable hand rests for stability. Equipped with high-quality magnifying lenses and interchangeable eyepieces, it provides clear, detailed viewing. The integrated mirror ensures effective illumination using natural or artificial light, making it ideal for laboratory, educational, and research applications.

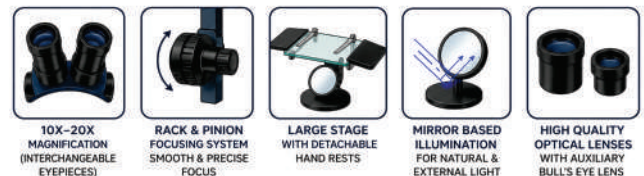
Technical Specifications

- Magnification: 10X-20X with interchangeable eyepieces and auxiliary lens option
- Viewing System: Binocular head for comfortable stereoscopic viewing
- Focusing System: Rack and pinion mechanism for smooth and precise focusing
- Stage: Large working stage with detachable hand rests for specimen handling
- Illumination: Mirror-based illumination for natural and external light use
- Optics: High-quality optical glass lenses for clear and



• ADM-102

- sharp image
- Construction: Heavy-duty base with stable and durable design
- Accessories: Includes eyepieces and auxiliary bull's eye lens for enhanced field of view



Parameter	Specification
Microscope Type	Dissecting Microscope
Magnification	10X-20X with interchangeable eyepieces
Viewing System	Binocular head for stereoscopic viewing
Focusing System	Rack & pinion mechanism for smooth adjustment
Stage	Large working stage with detachable hand rests
Illumination	Mirror-based for natural and external light use

DISSECTING MICROSCOPE

STUDENT DISSECTING MICROSCOPE

With 3D Viewing & Dual Eyepiece

Model No. SDM-103

Descriptions

This dissecting microscope is designed for detailed observation of small objects with a clear three-dimensional view. Built with a sturdy round base and durable brass fittings, it ensures stability and long-lasting performance. The dual eyepiece system (10x/20x) provides comfortable and precise viewing, making it ideal for educational and laboratory use. Its simple focusing mechanism and wide working area allow easy specimen handling, while the matte black finish gives it a professional and robust appearance.

Technical Specifications

- Magnification: Up to 20x (10x/20x eyepiece combination)
- Viewing Type: Stereo (3D) observation system
- Eyepiece: Dual eyepiece for comfortable viewing
- Body Construction: Metal body with durable brass fittings
- Base Type: Heavy round base for enhanced stability
- Focusing System: Smooth rack and pinion focusing

• SDM-103



- mechanism
- Stage: Wide working stage with specimen clips
- Illumination: Mirror-based illumination (external light support)
- Finish: Matte black coating for durability and professional look



DUAL EYEPIECE
Dual eyepiece for comfortable viewing



MAGNIFICATION
Up to 20x
(10x / 20x eyepiece combination)



3D VIEW
Stereoscopic (3D) observation system



MIRROR ILLUMINATION
Mirror-based illumination (external light support)

Parameter	Specification
Product Type	Dissecting Microscope
Magnification	Up to 20x
Eyepiece	10x / 20x Dual Eyepiece
Body Material	Metal with Brass Fittings
Base Type	Round Base
Illumination	Mirror Based (External Light Support)

COAXIAL MICROSCOPE

COAXIAL BINOCULAR LED MICROSCOPE

4x–100x Oil)

Model No. CBM-104

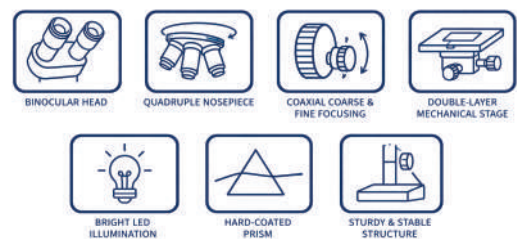
Descriptions

This coaxial microscope is engineered for reliable performance and precise observation in laboratory and educational environments. Its ergonomic C-shaped aluminum die-cast body ensures durability and stability during extended use. The binocular head provides comfortable viewing, while the quadruple ball-bearing nosepiece allows smooth objective changes. Equipped with coaxial coarse and fine focusing, it enables accurate adjustments. The double-layer mechanical stage ensures precise slide movement, and bright LED illumination delivers clear, consistent lighting for detailed specimen analysis.

Technical Specifications

- Binocular viewing head with hard-coated prism
- Magnification: 4x, 10x, 40x, 100x (Oil)
- Semi-plan achromatic objectives
- Coaxial coarse and fine focusing system
- Quadruple ball-bearing nosepiece
- Double-layer mechanical stage
- LED illumination with stable power supply

● CBM-104



Parameter	Specification
Microscope Type	Binocular Microscope
Magnification	4x, 10x, 40x, 100x (Oil)
Eyepiece	EWF 10x (18 mm Paired)
Objective Type	Semi-Plan Achromatic
Illumination	LED Light Source
Focusing System	Coaxial Coarse & Fine

DIGITAL VIDEO MICROSCOPE

DIGITAL VIDEO MICROSCOPE

With 9.5" Screen & LED Illumination (100x)

Model No. DVM-105

Descriptions

This digital microscope is designed for advanced observation, teaching, and laboratory applications with an integrated high-resolution display. It features a 9.5-inch LED screen and built-in MP camera for real-time viewing without the need for a computer. Equipped with high-definition semi-plan optics, it delivers sharp and clear images. The inbuilt LED illumination ensures consistent lighting, while smooth focusing controls and a sturdy design make it ideal for schools, colleges, and research labs.

• DVM-105



Technical Specifications

- Magnification: 100x with high-definition digital display
- 9.5-inch LED screen for real-time viewing
- Built-in MP camera for image capture and display
- Semi-plan optical system for sharp and clear images
- Coaxial coarse and fine focusing controls
- Inbuilt LED illumination with adjustable brightness

Parameter	Specification
Model Name/Number	DVM-106
Magnification	100x
Display	9.5 Inch LED Screen
Camera	Built-in MP Camera
Brand	OPXICA
Portability	Portable

DIGITAL VIDEO MICROSCOPE

DIGITAL VIDEO MICROSCOPE

with 7" LED Display

Model No. DVM-106

Descriptions

A versatile research microscope with an integrated 7-inch LED display for real-time viewing and analysis. It features a binocular viewing head, plan achromatic objectives, and precise coaxial focusing for clear imaging. Equipped with a mechanical stage, Abbe condenser, and dual illumination (halogen/LED), it ensures excellent visibility. The system includes battery backup and user-friendly controls, making it suitable for laboratory, educational, and routine research applications.

Technical Specifications

- Viewing Head: Compensation-free binocular head, inclined at 30°, interpupillary distance 55–75 mm
- Eyepiece: WF 10X with 18 mm field of view
- Objectives: Plan achromatic 4X, 10X, 40X, 100X
- Nosepiece: Quadruple, backward inclined type
- Focusing System: Coaxial coarse and fine adjustment (fine focus sensitivity 0.004 mm, range 24 mm)
- Condenser: Abbe N.A. 1.2
- Stage: Double layer mechanical stage, size 132 × 142

• DVM-106



- mm, movement range 75 × 40 mm
- Illumination: Halogen lamp 6V/20W or LED 3W
- Display: 7" TFT LED screen with remote-controlled functions
- Resolution: 3 MP imaging capability
- Power Supply: DC 12V with inbuilt battery backup facility



Parameter	Specification
Microscope Type	Digital Research Microscope with LED Display
Viewing Head	Binocular, 30° inclined, IPD 55–75 mm
Magnification	Up to 100X
Objectives	Plan Achromatic 4X, 10X, 40X, 100X
Stage	Double layer mechanical stage with smooth movement
Illumination	LED / Halogen with intensity control
Display	7" TFT LED screen with built-in imaging system

DIGITAL VIDEO MICROSCOPE

DIGITAL VIDEO MICROSCOPE

With HD Tablet Display & Measurement Software

Model No. DVM-107

Descriptions

This advanced digital trinocular microscope is designed for precise laboratory observation, research, and educational applications. It features a trinocular head with 360° rotation, high-resolution achromatic objectives, and a double-layer mechanical stage for smooth specimen handling. Equipped with an 11-inch Windows tablet display, LED illumination, and professional measuring software, it provides clear imaging, accurate analysis, and easy digital operation. Ideal for colleges, laboratories, and research centers requiring advanced microscopy solutions.

Technical Specifications

- Head: Trinocular head, Sidentopf type, 30° inclined, 360° rotatable
- Interpupillary Distance: Adjustable from 50–75 mm with ± 5 diopter adjustment on left tube
- Eyepiece: Wide Field Eyepiece WF 10X/15 mm
- Objectives: SP Plan Achromatic Objectives 4x, 10x, 40x, 100x (Oil)
- Nosepiece: Reverse quadruple nosepiece (inward facing)
- Stage: Double layer mechanical stage 140 x 140 mm,

• DVM-107



- moving range 50 x 75 mm
- Illumination: 3W LED with brightness adjustment
- Focusing System: Coaxial coarse and fine adjustment with fine division 0.002 mm

Feature	Specification
Head Type	Trinocular, 30° Inclined, 360° Rotatable
Objective Set	4x, 10x, 40x, 100x (Oil)
Eyepiece	WF 10X / 20 mm
Stage Type	Double Layer Mechanical Stage
Illumination	3W LED Adjustable Brightness
Display System	11-inch Windows Tablet Display
Tablet specifications	
Screen Size	11 Inch
Camera Sensor	1/2.3"
Effective Pixels	16 Million Pixels
Resolution	1920 × 1080 @ 30FPS
Output	USB 2.0, HDMI, TF Card, WiFi
Power	DC 12V / 2A

BINOCULAR MICROSCOPE

ADVANCED BINOCULAR RESEARCH MICROSCOPE

With Camera Port & LED Illumination (40X–100X)

Model No. ABRM-108

Descriptions

A high-end trinocular microscope designed for research, clinical, and advanced laboratory applications. It features a 30° inclined rotatable trinocular head for comfortable viewing and camera integration. Equipped with plan achromatic objectives including oil immersion, a precision double-layer mechanical stage, and smooth coaxial focusing, it ensures superior image clarity. The built-in LED illumination with adjustable brightness and optional battery backup provides consistent and flexible lighting for detailed specimen analysis.

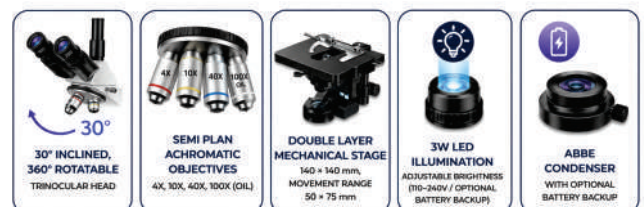
Technical Specifications

- Head: Binocular head inclined at 30°, rotatable 360°
- Eyepiece: Wide Field WF 10X / 20 mm
- Objectives: Semi Plan Achromatic 4X, 10X, 40X, 100X (oil)
- Nosepiece: Reverse quadruple nosepiece (inward facing)
- Stage: Double layer mechanical stage (140 × 140 mm), movement range 50 × 75 mm
- Focusing System: Coaxial coarse & fine adjustment with fine division 0.002 mm

● ABRM-108



- Condenser: Abbe condenser
- Illumination: 3W LED with adjustable brightness (110–240V, optional battery backup)



Parameter	Specification
Microscope Type	Binocular Research Microscope
Head	30° inclined, 360° rotatable
Magnification	Up to 100X
Objectives	4X, 10X, 40X, 100X (Oil)
Stage	Double layer mechanical stage (140 × 140 mm)
Illumination	3W LED with intensity control

ULTRA SERIES MICROSCOPE

ULTRA SERIES TRINOCULAR MICROSCOPE

With Infinity Optical System & LED Koehler Illumination
Model No. USTM-109

Descriptions

This advanced research microscope is designed for precision laboratory and educational applications, featuring an infinity-corrected optical system for sharp, high-contrast imaging. Equipped with plan achromatic objectives and a wide mechanical stage, it ensures accurate specimen observation. The ergonomic binocular head provides comfortable viewing, while the robust aluminum stand offers stability. Its LED Koehler illumination system delivers uniform and long-lasting light, making it ideal for detailed analysis in research labs, colleges, and diagnostic centers.

Technical Specifications

- Infinity corrected optical system for superior image clarity
- Binocular head inclined at 30° with 360° rotation
- Wide field eyepiece WF10X / 22mm with rubber eyecups
- Quintuple nosepiece with smooth ball bearing mechanism
- Plan achromatic objectives (4X, 10X, 40X, 100X Oil)

• USTM-109

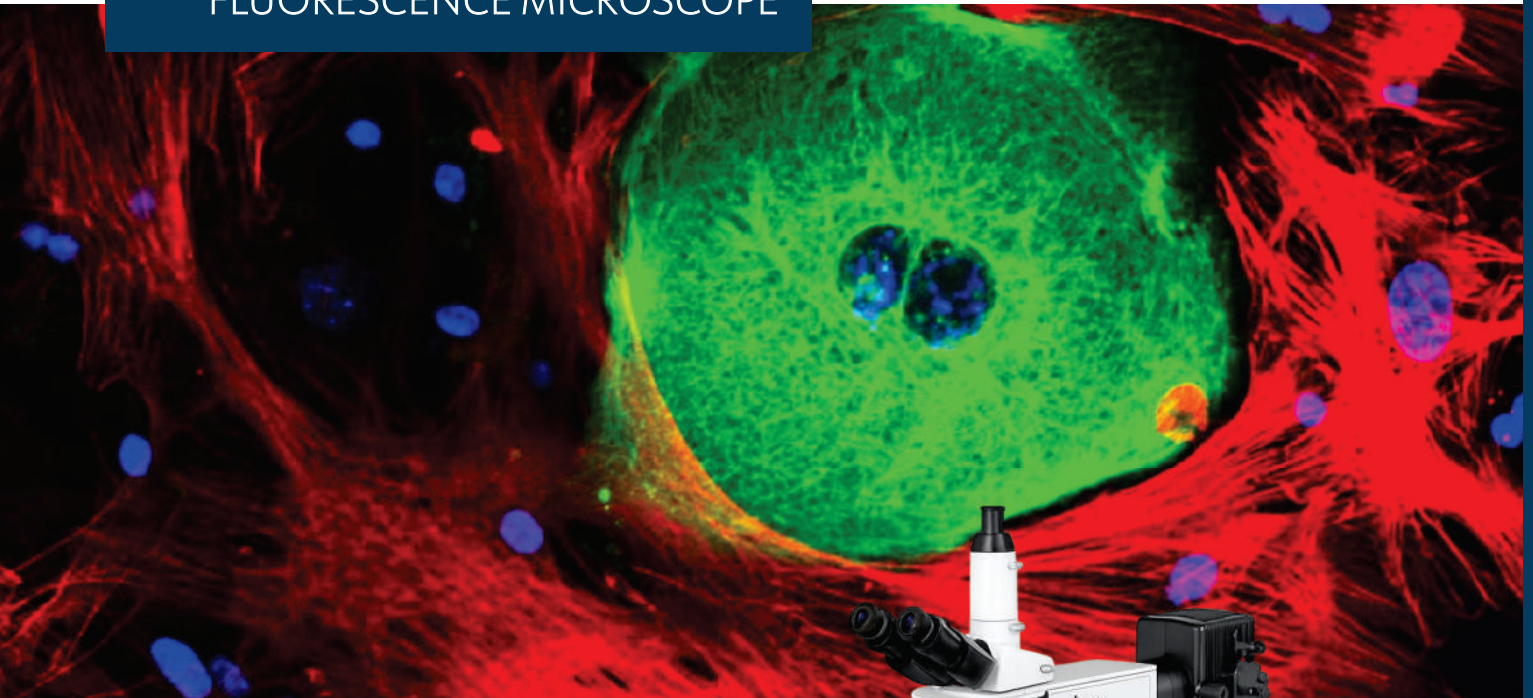


- Rackless mechanical stage with precise XY movement
- Coaxial coarse & fine focusing with smooth control
- 5W LED Koehler illumination with intensity adjustment



Parameter	Specification
Optical System	Infinity Corrected Optical System
Viewing Head	Binocular, 30° Inclined, 360° Rotatable
Eyepiece	WF 10X / 22mm
Objectives	4X, 10X, 40X (S), 100X (Oil) Plan Achromatic
Nosepiece	Quintuple, Ball Bearing Type
Stage	Rackless Mechanical Stage with XY Movement
Illumination	5W LED Koehler with Intensity Control

FLUORESCENCE MICROSCOPE



RESEARCH GRADE FLUORESCENCE MICROSCOPE

With Trinocular Head & Filter System

Model No. FM-110

Descriptions

This advanced fluorescence trinocular microscope is designed for precise biological research, laboratory diagnostics, and fluorescence observation applications. It features a compensation-free trinocular head with bright field and fluorescence observation modes for detailed specimen analysis. Equipped with infinity plan achromatic objectives, double-layer mechanical stage, coaxial focusing, and high-performance fluorescence illumination, it ensures sharp imaging and accurate results. Its transmitted LED illumination and adjustable condenser provide reliable performance for research laboratories, medical institutions, and advanced scientific studies.

Technical Specifications

- Technical Specifications (8 Points)
- Head: Compensation free trinocular head inclined at 30°
- Interpupillary Distance: Adjustable from 48-75 mm
- Observation Mode: Bright Field and Fluorescence observation
- Eyepiece: High point extra wide field eyepiece EW10X / 20 mm
- Nosepiece: Inverse quadruple nosepiece

• FM-110

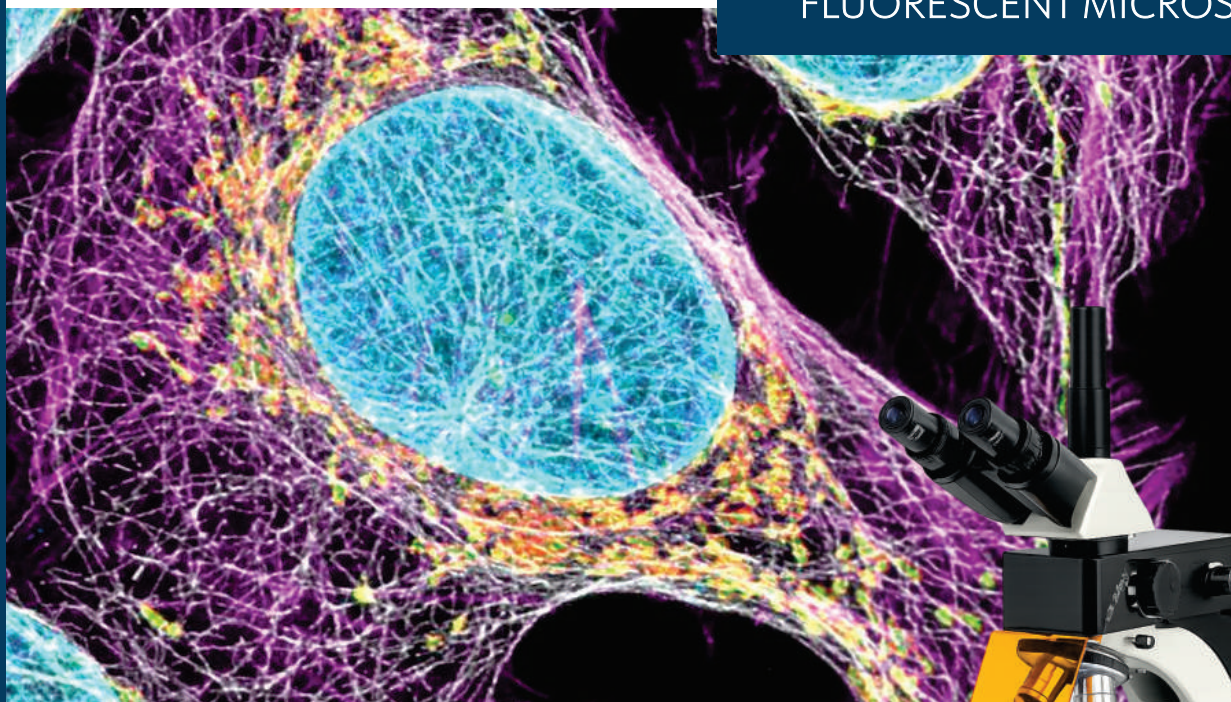


- Objectives: Long working distance infinite plan achromatic objectives 4X, 10X, 40X SL, 100X SL (Oil Immersion)
- Specimen Stage: Double layer mechanical stage 140 × 140 mm with move range 75 × 50 mm
- Illumination: EPI Fluorescence illumination with 100W mercury lamp and transmitted 3W high brightness white LED



Feature	Specification
Head Type	Compensation Free Trinocular Head
Observation Mode	Bright Field / Fluorescence
Eyepiece	EW10X / 20 mm Extra Wide Field
Objectives	4X, 10X, 40X SL, 100X SL (Oil)
Nosepiece	Inverse Quadruple Nosepiece
Stage Type	Double Layer Mechanical Stage 140 × 140 mm

FLUORESCENT MICROSCOPE



FLUORESCENT MICROSCOPE

With LED Illumination & Plan Optics

Model No. FM-111

Descriptions

This junior fluorescence microscope is a versatile and user-friendly instrument designed for educational and basic laboratory applications. Equipped with plan achromatic optics and antifungal coating, it ensures clear and reliable imaging. The trinocular/binocular head allows flexible observation and camera integration. With LED illumination for both transmitted and fluorescence modes, it delivers bright and consistent results. Its smooth focusing system, durable mechanical stage, and multi-mode capability make it ideal for schools, colleges, and entry-level research labs.

Technical Specifications

- Plan achromatic optics with antifungal and anti-reflection coating
- Trinocular/binocular head inclined at 30° with 360° rotation
- Wide field eyepiece WF10x with 25mm field of view
- Quadruple nosepiece with objectives up to 100x
- Coaxial coarse and fine focusing with smooth gear mechanism

● FM-111

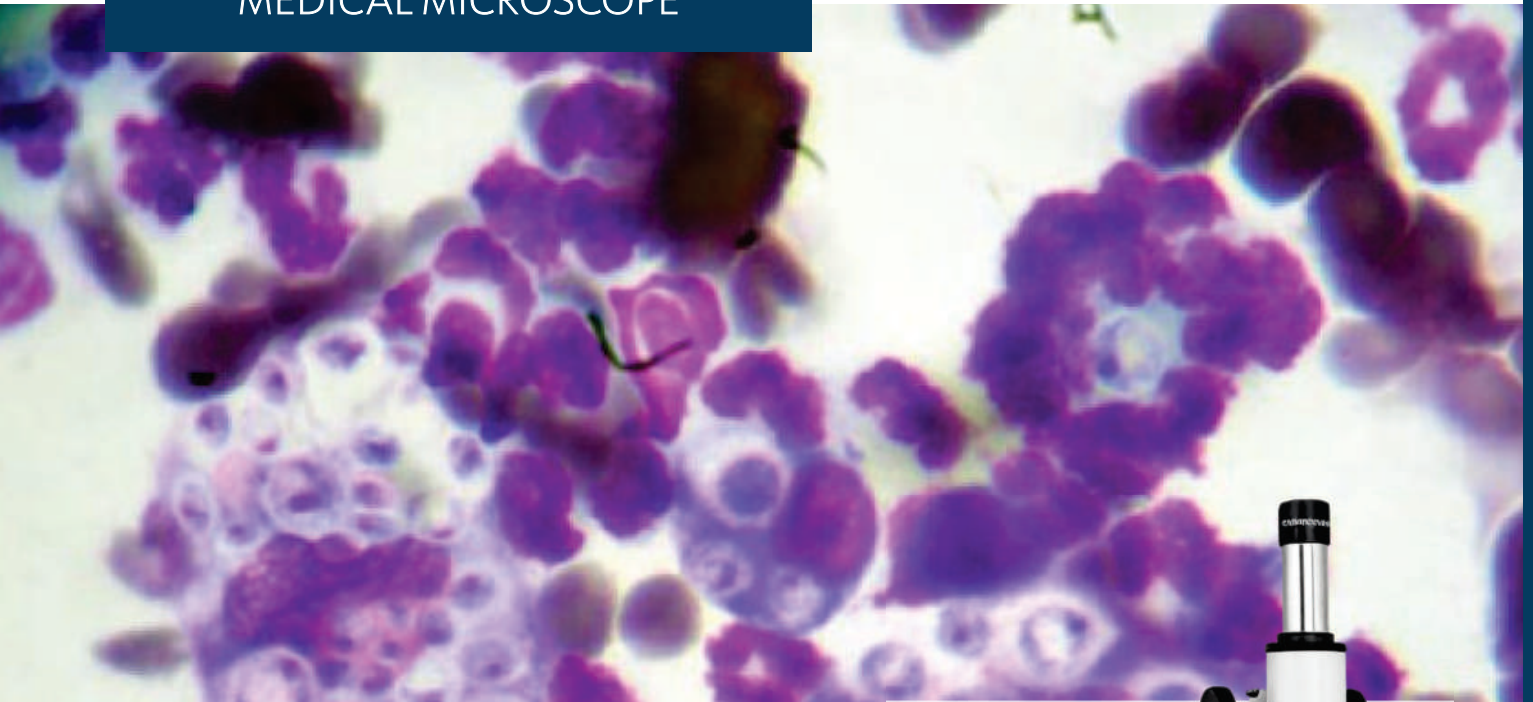


- Mechanical stage with ceramic surface and dual slide holder
- LED transmitted illumination with variable intensity control
- Fluorescence LED illumination with long operational life



Parameter	Specification
Model Name/Number	JFM-109
Optical System	Plan Achromatic, Anti-reflection & Antifungal Coated
Observation Head	Trinocular/Binocular, 30° Inclined, 360° Rotatable
Eyepiece	WF10x / 25mm Field of View
Objectives	4x, 10x, 40x, 100x (Optional 60x, 80x)

MEDICAL MICROSCOPE



ADVANCED COMPOUND MEDICAL MICROSCOPE

With LED Illumination & 2500X Magnification

Model No. ACM-112

Descriptions

This compound medical microscope is designed for educational and laboratory use, offering a wide magnification range from 100X to 2500X for detailed observation of cells and microorganisms. Equipped with achromatic glass objectives and widefield eyepieces, it delivers sharp and clear images. The LED substage illumination ensures bright and uniform lighting. Its durable metal body and user-friendly design make it ideal for students, schools, and biology enthusiasts, along with included prepared slides for practical learning.

• ACM-112



HIGH MAGNIFICATION
100X to 2500X magnification range for detailed observation of cells & microorganisms.



PREMIUM OPTICS
Achromatic objectives (10X, 45X, 100X) & widefield eyepieces (10X, 25X) for clear imaging.



LED SUBSTAGE ILLUMINATION
Bright & uniform LED illumination for enhanced visibility and sharp images.



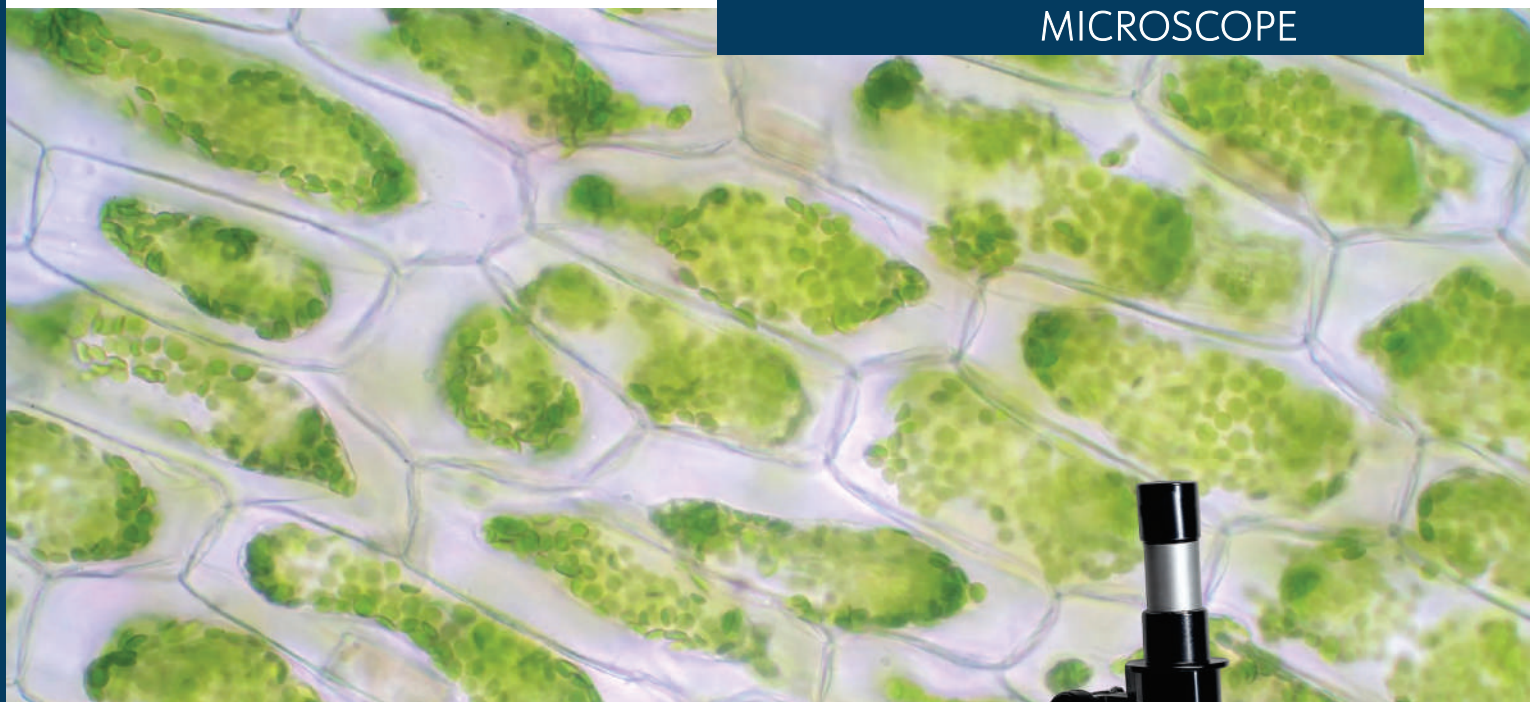
BATTERY OPERATED
Portable & convenient battery-operated system for easy use anywhere.

Technical Specifications

- Magnification range from 100X to 2500X
- Achromatic glass objectives for clear imaging
- Widefield eyepieces (10X & 25X)
- Multiple magnification levels for detailed observation
- LED substage illumination for bright lighting
- Durable metal body construction
- 90° viewing angle for comfortable use
- Battery-operated system for portability

Parameter	Specification
Microscope Type	Compound Medical Microscope
Magnification	100X – 2500X
Eyepiece	WF10X & WF25X
Objectives	10X, 45X, 100X (Achromatic)
Illumination	LED Substage Light
Power Source	Battery Operated
Body Material	Metal
Slides Included	100 Prepared Slides

STUDENT COMPOUND MICROSCOPE



STUDENT COMPOUND MICROSCOPE

With LED Illumination & 100X Magnification

Model No. SCM-113

● SCM-113

Descriptions

This student compound microscope is a reliable and easy-to-use instrument designed for educational and basic laboratory applications. It delivers clear and sharp images with magnification up to 675X, making it suitable for observing cells and microorganisms. Built with a durable aluminum and brass body, it ensures long-lasting performance. The microscope features smooth coarse and fine focusing, a stable stand, and bright LED illumination, making it ideal for schools, colleges, and beginner-level scientific studies.

Technical Specifications

- Maximum magnification up to 675X
- Wide field eyepieces WF10X and H15X
- Achromatic objective lenses (10X, 45X SL)
- Triple nosepiece for easy objective change
- Coarse & fine focusing with precision control
- Bright LED illumination for clear viewing
- Durable aluminum & brass body construction



Parameter	Specification
Microscope Type	Student Compound Microscope
Magnification	Up to 100X
Eyepiece	WF 10X, H 15X
Objectives	10X, 45X (SL)
Nosepiece	Triple Nosepiece
Illumination	LED Light Source
Construction	Aluminum & Brass Body

STUDENT MICROSCOPE

ADVANCE STUDENT MICROSCOPE

With Achromatic Optics & Mirror Illumination (40X–400X)

Model No. ASM-114

Descriptions

A reliable monocular microscope designed for routine laboratory and educational use, offering clear and precise observation. It features a 90° inclined viewing head, achromatic objectives, and a triple revolving nosepiece for smooth magnification changes. The high-quality stage and rack-and-pinion focusing ensure stability and accuracy during operation. Equipped with an efficient condenser and mirror-based illumination system, it provides optimal light control for detailed slide examination.

• ASM-114



Technical Specifications

- Head: Monocular, inclined at 90°
- Eyepiece: Wide Field 10X (optional 5X/15X set)
- Objectives: Achromatic 10X and 40X
- Nosepiece: Triple revolving with click stops
- Stage: High-quality stainless steel stage with clips
- Focusing System: Rack & pinion coarse and fine adjustment
- Condenser: Abbe condenser with iris diaphragm (N.A. 1.25)
- Illumination: Mirror-based (arc reflector for natural light)

Parameter	Specification
Microscope Type	Monocular Compound Microscope
Head	Monocular, 90° inclined
Magnification	Up to 400X
Objectives	Achromatic 10X and 40X
Stage	Stainless steel stage with clips
Illumination	Mirror-based (natural light)

JUNIOR MICROSCOPE



JUNIOR STUDENT MICROSCOPE

With LED Illumination & 100X Magnification

Model No. JSM-115

● JSM-115



Descriptions

This student microscope is designed for educational laboratories, schools, and basic scientific observation. It delivers clear image quality, smooth focusing, and durable construction for everyday learning applications. Ideal for biology studies, classroom demonstrations, and beginner-level specimen analysis, it ensures reliable performance with easy operation and comfortable viewing experience.

Technical Specifications

- Eyepiece: Wide field WF 10X eyepiece for comfortable viewing.
- Objectives: Achromatic 10X and 40X objectives for sharp image clarity.
- Magnification: Provides magnification up to 100X for specimen observation.
- Nosepiece: Triple revolving nosepiece for easy objective changing.
- Illumination: Bright LED illumination for clear specimen visibility.

- Focusing: Coarse and fine focusing system for smooth adjustment. Stage: Metal
- stage with slide clips for stable slide holding.
- Construction: Durable aluminum and brass body for long-lasting use



Parameter	Specification
Eyepiece	WF 10X
Objectives	10X & 40X Achromatic
Magnification	Up to 100X
Nosepiece	Triple Revolving
illumination	Bright LED Light
Body	Durable Metal Construction

STUDENT MICROSCOPE



ULTRA STUDENT COMPOUND MICROSCOPE

With Precision Achromatic Optics & Mirror Illumination (40X–400X)

Model No. USCM-116

Descriptions

The Ultra Series microscope is a compact and efficient monocular microscope designed for educational and laboratory applications. It features wide-field eyepieces, achromatic objectives, LED illumination, coarse and fine focusing, Abbe condenser, and a durable metal body for clear observation and smooth operation during practical experiments and slide analysis.

• USCM-116

- light reflection
- Precision revolving nosepiece with smooth objective lens changing
Durable stage clips securely hold prepared microscope slides
- Compact laboratory design suitable for schools and colleges

Technical Specifications

- Wide field 10x eyepiece for clear specimen viewing
- Achromatic objective lenses provide sharp magnified image clarity
- Smooth coarse and fine focusing adjustment mechanism included
- Heavy metal body ensures stable microscope performance always
- Mirror illumination system supports bright natural



Parameter	Specification
Eyepiece	Wide Field WF 10X Eyepiece
Objective Lenses	Achromatic 4X, 10X, 40X Objectives
Magnification Range	40X to 400X Magnification Power
Focusing System	Coarse and Fine Focusing Mechanism
illumination	Mirror Based Bright Illumination System
Nosepiece Type	Triple Revolving Nosepiece with Click Stops

STUDENT MICROSCOPE



ULTRA JUNIOR MICROSCOPE

With Achromatic Optics & LED Illumination

Model No. UJM-117

● UJM-117



Descriptions

The Ultra Series microscope is a compact educational microscope designed for clear and precise specimen observation. It features achromatic objectives, LED illumination, smooth coarse and fine focusing, sturdy metal construction, and high-quality optical performance, making it ideal for school laboratories, science practicals, and beginner biological studies.

- Focusing: Coarse and fine focusing system for smooth adjustment. Stage: Metal
- stage with slide clips for stable slide holding.
- Construction: Durable aluminum and brass body for long-lasting use

Technical Specifications

- Eyepiece : Wide Field WF 10X Eyepiece
- Objectives : Achromatic 10X and 40X Objectives
- Magnification : 40X to 400X Magnification Range
- Illumination : Bright LED Light Source System
- Focusing : Coarse and Fine Focusing Mechanism
- Nosepiece : Triple Revolving Nosepiece with Click Stops
- Stage : Metal Stage with Slide Holding Clips
- Body : Heavy Duty Metal Body Construction



Parameter	Specification
Eyepiece	Wide Field WF 10X
Objectives	Achromatic 10X & 40X
Magnification	40X – 400X Range
Illumination	Bright LED Light Source
Focusing	Coarse & Fine Adjustment
Nosepiece	Triple Revolving Type

STUDENT MEDICAL MICROSCOPE

ULTRA LABORATORY MEDICAL MICROSCOPE

With Precision Achromatic Optics & Mirror Illumination (40X-400X)

Model No. ULMM-118

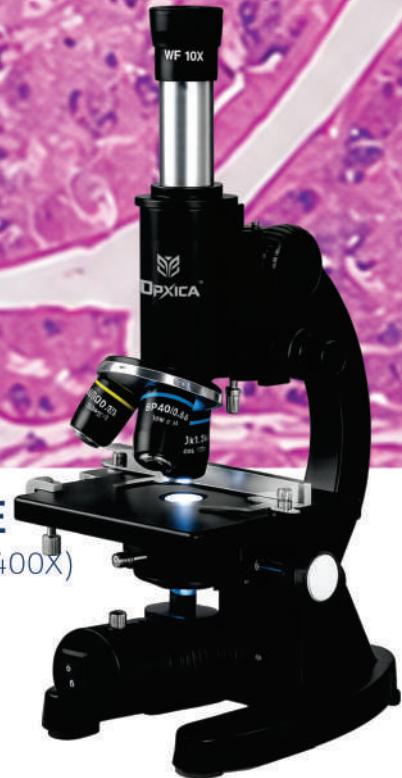
Descriptions

The Ultra Series microscope is a high-performance educational and laboratory microscope designed for advanced biological observation. It features achromatic objectives, LED illumination, Abbe condenser, co-axial mechanical stage, smooth coarse and fine focusing, and durable metal construction, providing sharp image clarity and reliable performance for schools, colleges, and laboratory applications.

Technical Specifications

- Wide Field WF 10X Eyepiece for comfortable and clear viewing
- Achromatic 10X, 40X & 100X objective lenses for sharp image clarity
- Magnification range from 40X to 1000X for detailed observation
- Bright LED illumination system with smooth on/off light control
- Co-axial mechanical stage enables accurate and

• ULMM-118



- smooth slide movement
- Coarse and fine focusing system for precise specimen adjustment
- Abbe condenser with iris diaphragm improves brightness and image contrast
- Heavy duty metal body construction ensures stability and long-lasting durability



Parameter	Specification
Eyepiece	Extra Wide Field WF 10X
Objective	Achromatic 10X, 40X & 100X Oil
Stage Type	Co-Axial Mechanical Moving Stag
Focusing System	Coarse & Fine Rack Pinion Focusing
Condenser	Abbe Condenser NA 1.25
Illumination	Battery Operated LED Light Source

PENTA HEAD MICROSCOPE

PENTA HEAD MICROSCOPE

With 5-User Viewing
 Model No. PHM-119

Descriptions

This multi-view binocular teaching microscope is specially designed for medical and dental colleges, laboratories, and group learning applications. It features a 5-binocular head system that allows simultaneous observation by multiple users for better demonstration and practical study. Equipped with achromatic optics, wide field eyepieces, coaxial coarse and fine focusing, mechanical stage, and bright LED illumination, it ensures clear specimen viewing and smooth operation. Its stable design makes collaborative laboratory learning more effective and convenient.

Technical Specifications

- Head: 5 Binocular head system for multiple simultaneous viewing
- Eyepiece: Wide Field Eyepiece WF 10X / 18 mm
- Nosepiece: Quadruple revolving nosepiece
- Objectives: Achromatic objectives 4X, 10X, 40X, 100X
- Condenser: Swing condenser N.A. 0.9 / 0.25
- Focusing System: Coaxial coarse and fine adjustment with fine division 0.002 mm
- Plain layer mechanical stage 140 mm × 140 mm



● PHM-119

- Illumination: Halogen lamp 6V / 30W with brightness adjustable LED pointer



Parameter	Specification
Head Type	5 Binocular Head System
Eyepiece	WF 10X / 18 mm
Objectives	Achromatic 4X, 10X, 40X, 100X
Nosepiece	Quadruple Revolving Nosepiece
Stage Type	Plain Layer Mechanical Stage 140 × 140 mm
Illumination	6V / 30W Halogen Lamp with LED Pointer

DECA HEAD MICROSCOPE

DECA HEAD MICROSCOPE

With 10-User Viewing & Infinity Optical System
 Model No. DHM-120

Descriptions

A deca-head microscope featuring an infinity-corrected plan optical system designed for simultaneous multi-user viewing, making it ideal for medical, dental, and research institutions. It includes one trinocular head and multiple binocular heads inclined at 30°, wide field eyepieces, and infinity plan objectives for high-resolution imaging. Equipped with a quadruple nosepiece, Abbe condenser, mechanical stage, and coaxial focusing system, it ensures precision and ease of use. Illumination includes adjustable halogen and LED pointer lighting for enhanced visibility and teaching efficiency.

Technical Specifications

- Magnification: Up to 1000X for detailed multi-user observation
- Viewing System: Deca head (1 trinocular + 9 binocular heads inclined at 30°)
- Eyepiece: WF10X / 22 mm wide field eyepieces
- Objectives: Infinity plan 4X, 10X, 40X (spring), 100X oil immersion (spring)
- Nosepiece: Quadruple revolving nosepiece with smooth ball bearing movement



• DHM-120

- Focusing System: Coaxial coarse and fine adjustment for precise focusing
- Stage: Double layer mechanical stage (180 mm × 160 mm)
- Illumination: 12V/10W halogen lamp with adjustable brightness and LED pointer



Parameter	Specification
Model Name/Number	DHM-112
Microscope Type	Deca Head Research Microscope
Magnification	Up to 100X
Viewing System	Deca Head (1 Trinocular + 9 Binocular Heads)
Eyepiece	WF 10X, FOV 22 mm (10 Sets)
Objectives	4X, 10X, 40X (S), 100X Oil (S)
Illumination	12V 10W Halogen / LED with Intensity Control

BIOLOGICAL MICROSCOPE

BINOCULAR MICROSCOPE

With 10-User Viewing & Infinity Optical System

Model No. BM-121

• BM-121

Descriptions

This advanced trinocular biological microscope is designed for precise laboratory observation, research, and educational applications. It features a 30° inclined trinocular head with 360° rotation, infinity-corrected optical system, and bright field observation for clear specimen analysis. Equipped with plan achromatic objectives, double mechanical stage, coaxial focusing, and 3W LED Köhler illumination, it ensures accurate imaging and smooth operation. Its ergonomic design provides stability, comfort, and reliable long-term laboratory performance.

Technical Specifications

- Head: Trinocular head, 30° inclined, rotatable at 360°
- Optical System: Finite optical system with bright field observation
- Eyepiece: PL 10X / 22 mm high eyepoint eyepiece with left tube diopter adjustment
- Objectives: Infinity corrected Plan 4X, 10X, 40X (S), 100X (S, Oil)
- Nosepiece: Backward quintuple or quadruple objective nosepiece

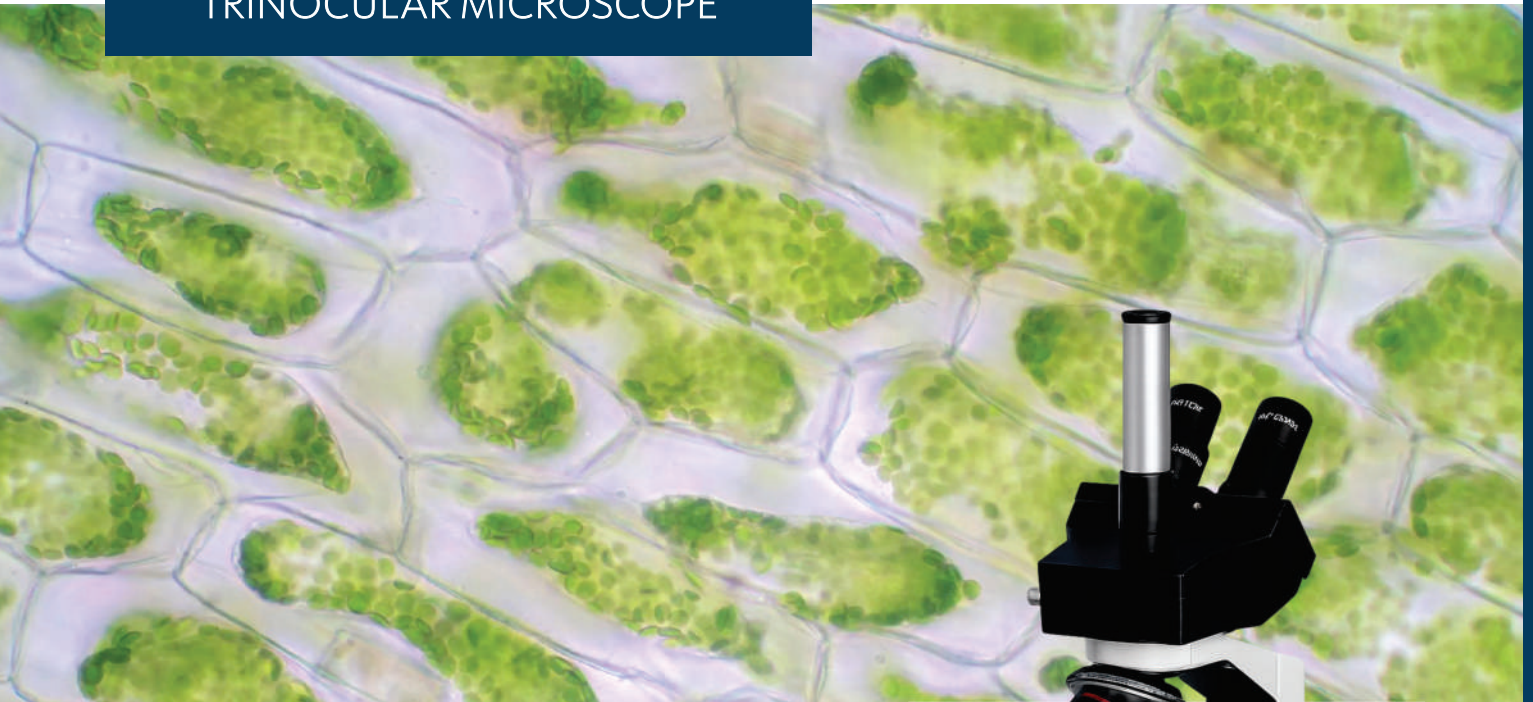


- Stage: 220 × 148 mm X-axis low hand position double mechanical stage
- Focusing System: Coaxial coarse and fine focus knobs with 0.002 mm precision
- Illumination: 3W LED lamp with Köhler illumination system



Parameter	Specification
Head Type	Binocular Head, 30° Inclined, 360° Rotatable
Objective Set	Plan 4X, 10X, 40X (S), 100X (Oil)
Eyepiece	PL 10X / 22 mm High Eyepoint
Optical System	Finite Optical System
Illumination	3W LED with Köhler Illumination
Nosepiece	Backward Quintuple / Quadruple Nosepiece

TRINOCULAR MICROSCOPE



TRINOCULAR MICROSCOPE

With CMOS Camera & 1500X Magnification

Model No. TM-122

● TM-122

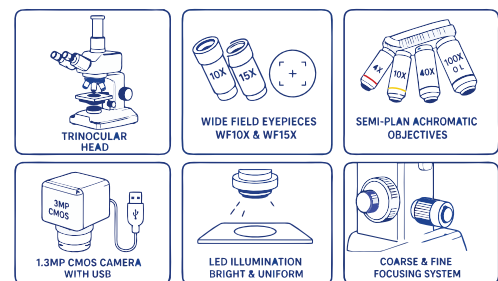


Descriptions

This trinocular compound microscope is designed for advanced laboratory, pathology, and educational applications. It offers high magnification up to 1500X, delivering sharp and detailed images of specimens. Equipped with semi-plan achromatic objectives and wide-field eyepieces, it ensures excellent clarity and contrast. The integrated 1.3MP CMOS camera allows easy image capture and analysis. With a sturdy die-cast body, ergonomic design, and LED illumination system, it provides reliable performance for professional and academic use.

Technical Specifications

- Magnification range from 40X to 1500X
- Trinocular head for camera integration
- Wide-field eyepieces WF10X & WF15X (anti-fungal coated)
- Semi-plan achromatic objective lenses
- Built-in 1.3MP CMOS camera with USB connectivity
- LED illumination for bright and uniform lighting
- Coarse & fine focusing system with precision control
- Durable die-cast metal body with ergonomic design



Parameter	Specification
Microscope Type	Trinocular Compound Microscope
Magnification	40X – 100X
Eyepiece	WF 10X, WF 15X
Objectives	Semi-Plan Achromatic Objectives
Camera	1.3 MP CMOS with USB
Viewing Angle	45° Inclined
Illumination	LED Light Source
Power Source	220V AC

TISSUE CULTURE MICROSCOPE



INVERTED TISSUE CULTURE MICROSCOPE

With LWD Objectives & LED Illumination

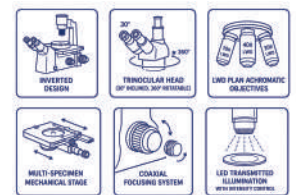
Model No. ITCM-123

Descriptions

This inverted tissue culture microscope is specially designed for advanced biological and cell culture applications. It features an ergonomic anti-rust stand and a trinocular viewing system for comfortable observation and image capture. Equipped with long working distance plan achromatic objectives, it provides clear and high-contrast imaging of live cells. The precision coaxial focusing system and large mechanical stage ensure smooth operation, while LED illumination with intensity control delivers uniform lighting, making it ideal for research laboratories and cell culture studies.

• ITCM-123

- Coaxial coarse & fine focusing with vertical movement
- LED transmitted illumination with intensity control

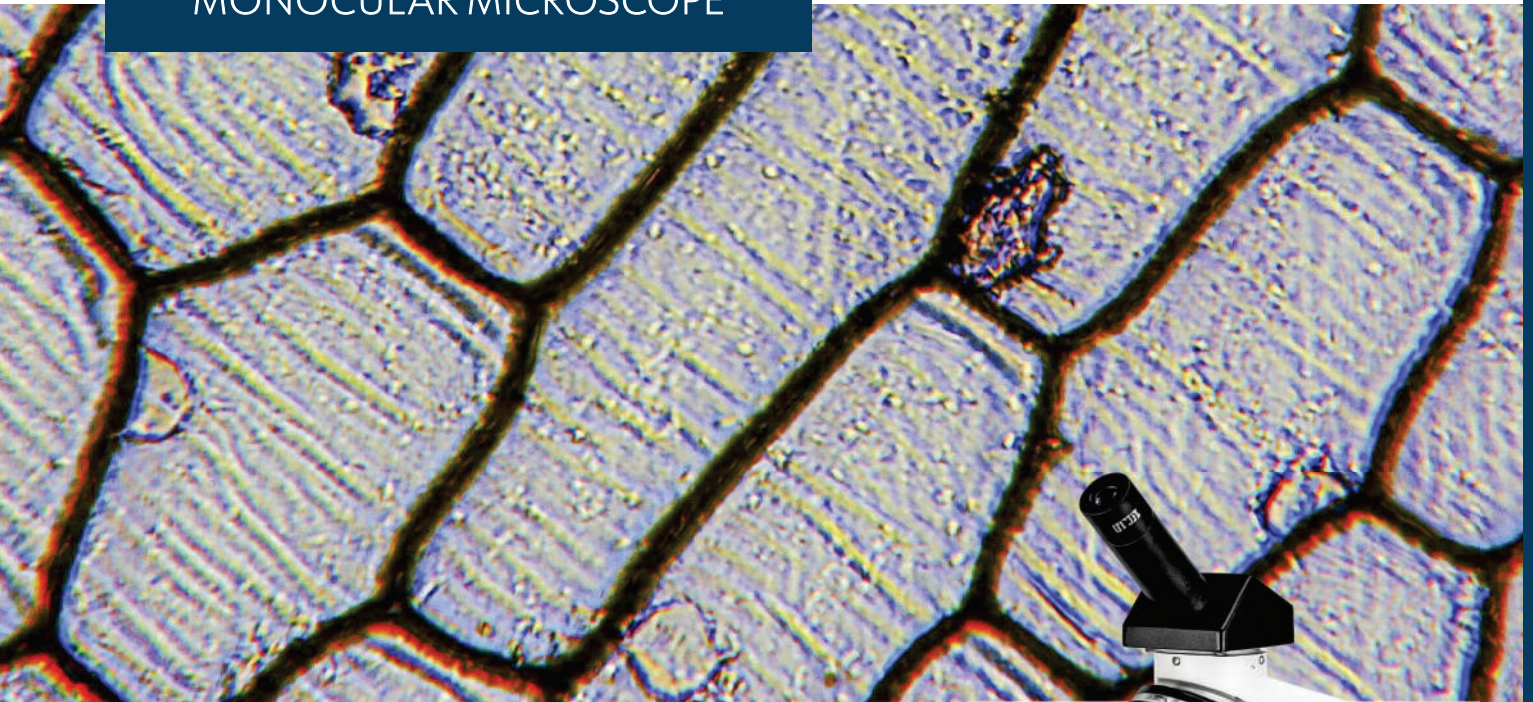


Technical Specifications

- Infinity corrected optical system with LWD objectives
- Trinocular head, 30° inclined, 360° rotatable
- Wide field eyepiece WF 10X / 22mm (anti-fungal coated)
- Quintuple reverse angle nosepiece (ball bearing type)
- Long working distance plan achromatic objectives
- Large mechanical stage with multi-specimen holders

Parameter	Specification
Microscope Type	Inverted Tissue Culture Microscope
Viewing Head	Trinocular, 30° Inclined, 360° Rotatable
Eyepiece	WF 10X / 22mm (Anti-fungal, Anti-reflection)
Nosepiece	Quintuple Reverse Angle (Ball Bearing Type)
Objectives	4X, 10X, 20X, 40X LWD Plan Achromatic (Phase Compatible)
Stage	Fixed Stage 160×250mm with X-Y Mechanical Movement
Focusing System	Coaxial Coarse & Fine Adjustment
Illumination	LED Transmitted Light with Intensity Control

MONOCULAR MICROSCOPE



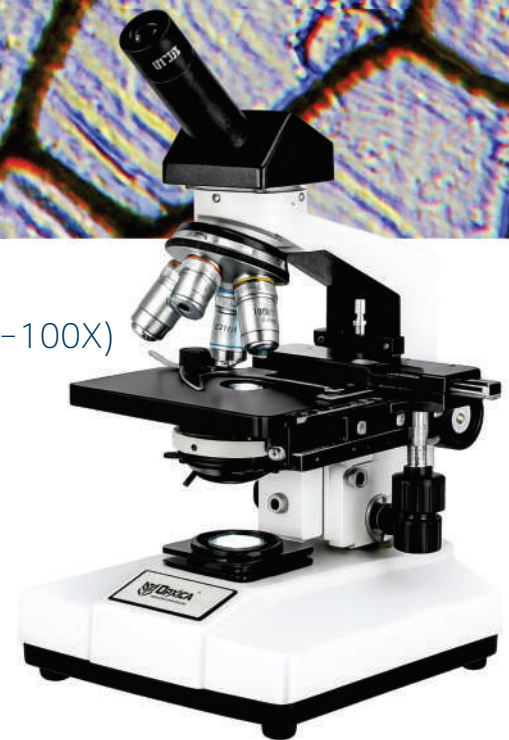
ADVANCE MONOCULAR MICROSCOPE

With Plan Achromatic Optics & Mechanical Stage (40X–100X)

Model No. AMM-124

Descriptions

A high-performance monocular microscope designed for advanced laboratory, clinical, and educational applications. It features a 45° inclined rotatable head for ergonomic viewing and precise observation. Equipped with plan achromatic objectives including oil immersion, a large mechanical stage, and smooth coaxial focusing, it ensures sharp and accurate imaging. The built-in LED illumination with adjustable intensity, along with Abbe condenser and mirror support, provides excellent light control for detailed specimen analysis.



- iris diaphragm & filter slot
- Illumination: LED light with intensity control and mirror support (220V, 50Hz)

Technical Specifications

- Head: Monocular head inclined at 45°, rotatable 360°
- Eyepiece: 10X Wide Field (FOV 18 mm)
- Objectives: Plan Achromatic 4X, 10X, 40X (SL), 100X (oil immersion)
- Nosepiece: Quadruple revolving nosepiece
- Stage: Horizontal mechanical stage (120 × 125 mm)
- Focusing System: Separate coarse and fine focusing adjustment
- Condenser: Movable Abbe condenser N.A. 1.25 with



Parameter	Specification
Microscope Type	Monocular Laboratory Microscope
Head	45° inclined, 360° rotatable
Magnification	Up to 100X
Objectives	4X, 10X, 40X, 100X (Oil)
Stage	Mechanical stage (120 × 125 mm)
Illumination	LED with intensity control + mirror

BINOCULAR MICROSCOPE



ADVANCED BINOCULAR LAB MICROSCOPE

With Plan Achromatic Optics & LED Illumination (40X-1000X)

Model No. ABM-125

Descriptions

A high-precision binocular microscope designed for advanced laboratory, clinical, and educational use. It features a 30° inclined rotatable binocular head with diopter adjustment for comfortable dual-eye viewing. Equipped with plan achromatic objectives including oil immersion and a smooth mechanical stage, it delivers sharp and accurate imaging. The combination of LED illumination with intensity control and Abbe condenser ensures excellent light management for detailed specimen analysis.

Technical Specifications

- Head: Binocular head inclined at 30°, rotatable 360° with diopter adjustment
- Eyepiece: 10X Wide Field (FOV 18 mm)
- Objectives: Plan Achromatic 4X, 10X, 40X (SL), 100X (oil immersion)
- Nosepiece: Quadruple revolving nosepiece
- Stage: Mechanical stage (120 × 125 mm) with precise slide movement
- Focusing System: Separate coarse and fine focusing adjustment

● ABM125



- Condenser: Movable Abbe condenser N.A. 1.25 with iris diaphragm & filter slot
- Illumination: LED light with intensity control + plano-concave mirror support



Parameter	Specification
Microscope Type	Binocular Laboratory Microscope
Head	30° inclined, 360° rotatable
Magnification	Up to 1000X
Objectives	4X, 10X, 40X, 100X (Oil)
Stage	Mechanical stage (120 × 125 mm)
Illumination	LED with intensity control + mirror

BINOCULAR RESEARCH MICROSCOPE

BINOCULAR RESEARCH MICROSCOPE

With LED Illumination (40x–100x)

Model No. BRM-126

Descriptions

This binocular microscope is designed with an ergonomic viewing head that ensures comfortable observation during extended use while reducing eye strain. Its high-quality achromatic optics deliver sharp, clear, and color-accurate images for detailed specimen analysis. The integrated LED illumination provides bright, uniform, and energy-efficient lighting for consistent visibility across the field of view. Additionally, the smooth mechanical stage combined with precise coarse and fine focusing controls allows accurate slide positioning and effortless focusing, enhancing overall user experience and operational efficiency.

Technical Specifications

- Microscope Type: Binocular Research Microscope
- Magnification Range: 40× – 100×
- Eyepiece: WF10× Wide Field
- Objective Type: Achromatic Objectives
- Illumination: Built-in LED Light Source
- Viewing Head: Binocular (Ergonomic Design)

• BRM126



Parameter	Specification
Optical System	Achromatic high-clarity lenses
Illumination	Energy-efficient LED light source
Eyepiece	WF10× wide-field viewing
Stage Movement	Smooth mechanical X-Y control
Viewing Comfort	Ergonomic binocular head
Construction	Compact, stable & durable design

PROJECTION MICROSCOPE



STUDENT PROJECTION MICROSCOPE

With Rotatable Glass Screen & LED Illumination

Model No. SPM-127

Descriptions

This projection microscope is designed for clear specimen demonstration and educational laboratory use. It features a monocular fixed straight tube, bright LED illumination, and a large 150 mm rotatable glass projection screen for easy group observation. Equipped with achromatic objectives, smooth rack and pinion focusing, and a stable square stage with stage clips, it ensures accurate viewing and simple operation. Ideal for schools, colleges, and teaching laboratories for practical demonstrations.

Technical Specifications

- Body: Monocular fixed straight tube with 160 mm length
- Illumination: Bright LED lamp for clear specimen viewing
- Stage: 110 × 110 mm square stage with stage clips and optional mechanical stage
- Focusing System: Rack and pinion focusing with dual side control knobs and 15 mm range
- Nosepiece: Triple revolving nosepiece with positive click stops
- Screen: 150 mm diameter rotatable glass projection

● SPM-127



- screen with 360° rotation
- Objectives: Achromatic 4X, 10X, and 40X
- Packaging: Inner Thermocol / Styrofoam packing with outer cardboard box



Parameter	Specification
Body Type	Monocular Fixed Straight Tube
Objective Set	Achromatic 4X, 10X, 40X
Stage Type	110 × 110 mm Square Stage
Screen Type	150 mm Rotatable Glass Projection Screen
Focusing System	Rack & Pinion with 15 mm Range
Illumination	Bright LED Lamp

BINOCULAR MICROSCOPE

ADVANCED BINOCULAR LAB MICROSCOPE

With Semi Plan Optics & LED Illumination (40X-100X)

Model No. ABLM-128

Descriptions

A high-quality binocular microscope designed for laboratory, clinical, and educational applications. It features an ergonomic 30° inclined rotatable head with diopter adjustment for comfortable viewing. Equipped with semi-plan achromatic objectives and a precision mechanical stage, it ensures sharp and stable imaging. The integrated 3W LED illumination with adjustable brightness and optional battery backup provides reliable and efficient lighting for detailed specimen observation.

• ABLM-128



- Focusing System: Coaxial coarse & fine focusing with fine division 0.002 mm
- Condenser: Abbe condenser
- Illumination: 3W LED with adjustable brightness (110-240V, optional battery backup)

Technical Specifications

- Head: Binocular head inclined at 30°, rotatable 360° with diopter adjustment
- Eyepiece: Wide Field WF 10X / 20 mm
- Objectives: Semi Plan Achromatic 4X, 10X, 40X, 100X (oil immersion)
- Nosepiece: Reverse quadruple nosepiece (inward facing)
- Stage: Double layer mechanical stage (140 × 140 mm), movement range 50 × 75 mm



Parameter	Specification
Microscope Type	Binocular Laboratory Microscope
Head	30° inclined, 360° rotatable
Magnification	Up to 100X
Objectives	4X, 10X, 40X, 100X (Oil)
Stage	Double layer mechanical stage (140 × 140 mm)
Illumination	3W LED with intensity control

TRINOCULAR MICROSCOPE



ADVANCED TRINOCULAR RESEARCH MICROSCOPE

With Infinity Optics & Koehler LED Illumination (40X-1000X)

Model No. ATRM-129

Descriptions

A premium trinocular research microscope engineered for advanced laboratory and clinical applications. Designed with an ergonomic structure for user comfort, it features an infinity optical system and high-quality coated objectives for superior clarity. The multi-layer optics reduce chromatic aberration, delivering bright and high-contrast images even in low-light conditions. With multiple illumination techniques, Koehler LED lighting, and precision focusing, it is ideal for fluorescence, dark field, and detailed analytical work.

Technical Specifications

- Head: Trinocular head inclined at 30°, rotatable 360°
- Optical System: Infinity corrected optical system
- Eyepiece: WF 10X / Super wide field 23 mm
- Objectives: Color corrected plan achromatic 4X, 10X, 20X, 40X, 100X (oil immersion)
- Nosepiece: Quintuple nosepiece with slots for POL / DIC
- Stage: Double layer ceramic coated mechanical stage with slide holder
- Focusing System: Coaxial focusing with fine

● ATRM-129

- adjustment
- Condenser: Swing-out Abbe condenser with multi-position settings
- Illumination: 5W LED Koehler illumination with intensity control



Parameter	Specification
Microscope Type	Trinocular Research Microscope
Head	30° inclined, 360° rotatable
Magnification	Up to 100X
Objectives	4X, 10X, 20X, 40X, 100X (Oil)
Stage	Double layer mechanical stage
Illumination	LED Koehler illumination

ULTRA SERIES MICROSCOPE



STEREO ZOOM MICROSCOPE

With Fixed Magnification & Transmitted Illumination

Model No. SZM-130

Descriptions

A compact and reliable stereo binocular microscope designed for inspection, electronics work, and educational applications. It features a 90° viewing head with wide-field eyepieces for comfortable observation. Equipped with fixed achromatic objectives, it provides clear low-magnification viewing. The sturdy stand and optional transmitted illumination base make it ideal for circuit analysis, small component inspection, and routine laboratory use.

• SZM-130



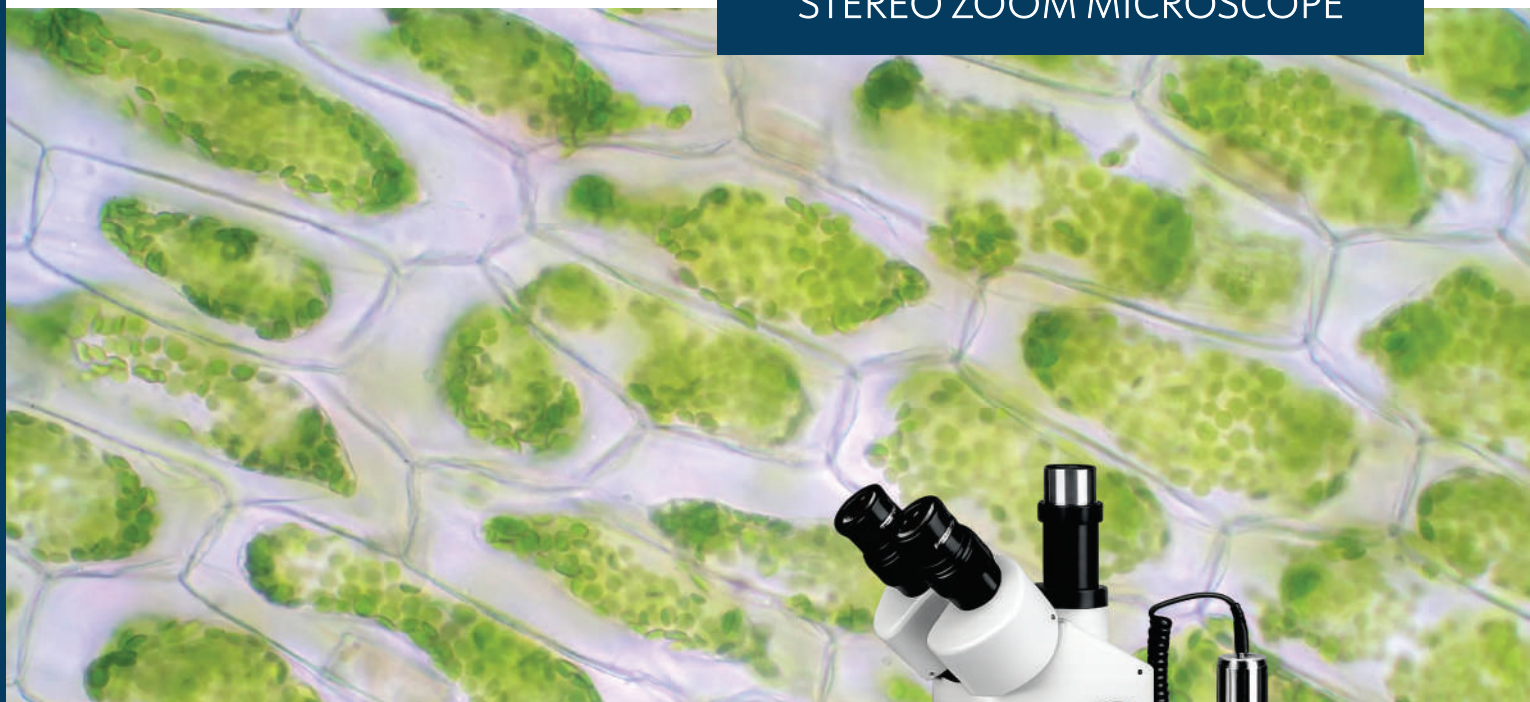
Technical Specifications

- Head: Binocular head with 90° viewing angle
- Eyepiece: WF 10X or WF 15X (paired)
- Objectives: Fixed achromatic objectives 2X or 3X
- Magnification: Low magnification for inspection applications
- Stand: Stable base with stage plate and clips
- Adjustment: Interpupillary distance adjustment available
- Illumination: Transmitted illumination base (optional)



Parameter	Specification
Trinocular Head	360° Rotatable Design
WF10X Eyepiece	Wide Field Viewing
Zoom System	0.7X-4.5X Magnification
Halogen Illumination	Top & Bottom Lighting
Focusing Knobs	Smooth Fine Adjustment
Heavy Duty Stand	Stable Column Structure

STEREO ZOOM MICROSCOPE



STEREO ZOOM TRINOCULAR MICROSCOPE

Precision Trinocular Optical System with Zoom Magnification

Model No. SZTM-131

Descriptions

Stereo Zoom Microscope SZM-127 is a high-performance trinocular microscope designed for precision observation and detailed inspection work. It offers clear magnification, smooth zooming, and powerful halogen illumination for laboratories, medical research, biology studies, electronics inspection, and industrial applications. Its ergonomic design ensures comfortable long-hour operation with accurate viewing performance.

● SZTM-131



Technical Specifications

- Head: Trinocular head, 360° rotatable
- Optical System: Stereo zoom optics
- Eyepiece: WF10X wide field eyepiece
- Zoom Range: 0.7X to 4.5X zoom
- Illumination: Top & bottom halogen light
- Focusing: Smooth side focusing knobs
- Stage: Glass stage with contrast plate
- Stand: Heavy duty column stand



Parameter	Specification
Microscope Type	Trinocular Research Microscope
Head	30° inclined, 360° rotatable
Magnification	Up to 100X
Objectives	4X, 10X, 20X, 40X, 100X (Oil)
Stage	Double layer mechanical stage
Illumination	LED Koehler illumination

STEREO ZOOM MICROSCOPE



STEREO BINOCULAR ZOOM MICROSCOPE

With Dual Illumination & Variable Magnification

Model No. SBZM-132

Descriptions

A versatile stereo binocular microscope designed for precision inspection, electronics work, and laboratory applications. It features a 45° inclined viewing head for ergonomic comfort and clear stereoscopic vision. Equipped with interchangeable objectives and wide-field eyepieces, it provides flexible magnification options. The stable stand with both transmitted and reflected illumination ensures excellent visibility, making it ideal for PCB inspection, assembly work, and detailed component analysis.

● SBZM-132



Technical Specifications

- Head: Binocular head inclined at 45°
- Eyepiece: Paired WF 10X (FOV 18 mm)
- Objectives: Interchangeable 2X / 4X
- Magnification: 20X / 40X or 10X / 30X combinations
- Interpupillary Distance: 48-75 mm adjustable
- Focusing System: Rack & pinion focusing with up to 50 mm working distance
- Stand: Stable base with stage plate and clips
- Illumination: Transmitted and reflected illumination

Microscope type	Stereo Binocular Microscope
Head	45° inclined binocular
Magnification	10X-40X
Objectives	2X / 4X
Stage	Stage plate with clips
Illumination	Transmitted & reflected light

ULTRA SERIES MICROSCOPE



STEREO ZOOM BINOCULAR MICROSCOPE

With Long Working Distance & Dual Illumination (7X-45X)

Model No. SZBM-133

Descriptions

A high-performance stereo zoom microscope designed for precision inspection, industrial applications, and laboratory use. It features a 45° inclined binocular head with 360° rotation and diopter adjustment for comfortable viewing. With a wide zoom range and long working distance, it is ideal for detailed examination of large specimens. The pole stand design combined with transmitted and reflected illumination ensures flexibility and excellent visibility for electronics, assembly, and research work.

• SZBM-133



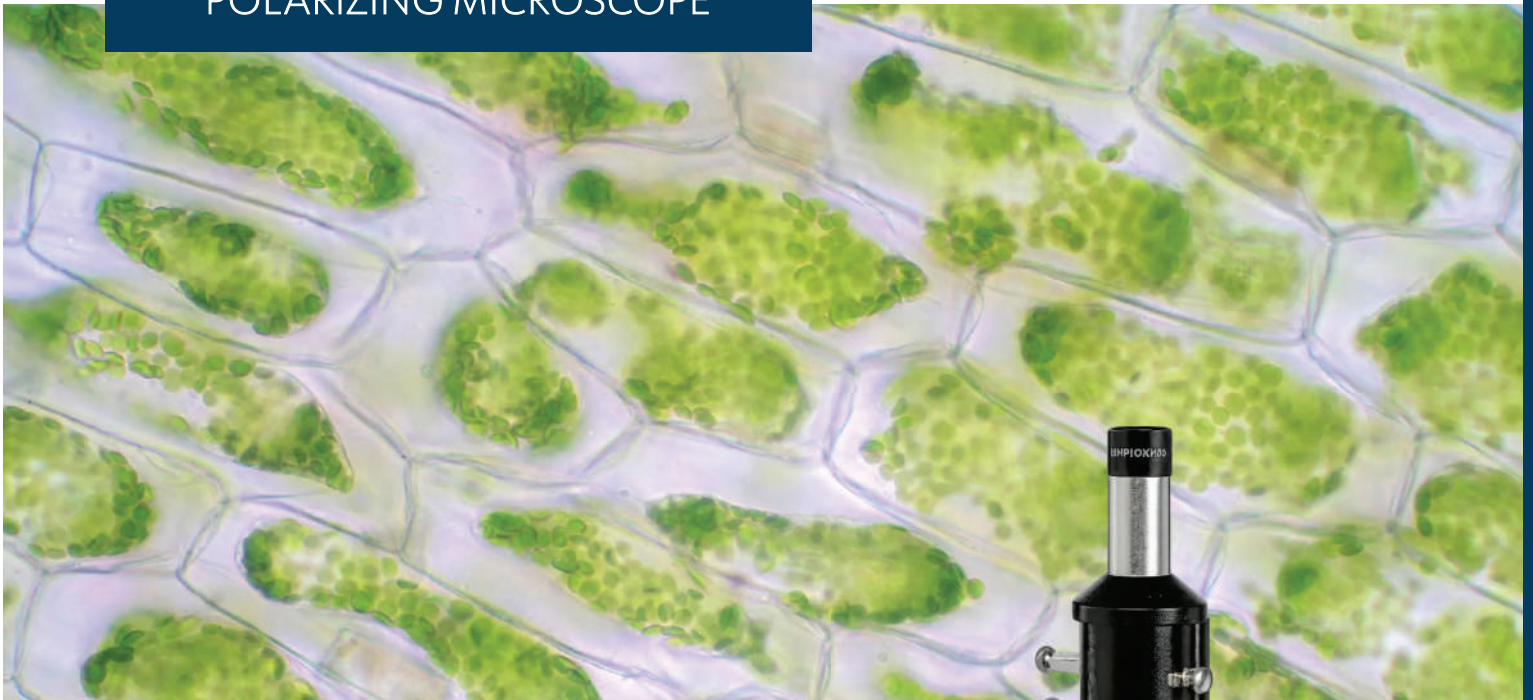
Technical Specifications

- Head: Binocular head inclined at 45°, rotatable 360° with diopter adjustment
- Eyepiece: WF 10X (FOV 20 mm)
- Objectives: 1X objective
- Magnification: 7X to 45X zoom range
- Interpupillary Distance: 55-75 mm adjustable
- Working Distance: Approx. 110 mm
- Stand: Pole stand for flexible positioning
- Zoom Ratio: 6.4:1 (0.7X - 4.5X zoom)
- Illumination: Transmitted and reflected illumination (6V / 15W)



Parameter	Specification
Microscope Type	Stereo Zoom Microscope
Head	45° inclined, 360° rotatable
Magnification	7X - 45X
Objective	1X
Working Distance	110 mm
Illumination	Transmitted & reflected light

POLARIZING MICROSCOPE



POLARIZING MONOCULAR MICROSCOPE

With Bertrand Lens & Rotatable Stage for Crystal Analysis

Model No. POLM-134

Descriptions

A specialized monocular polarizing microscope designed for geological, mineralogical, and material analysis. It features a robust structure with Bertrand lens and polarizing attachments for advanced optical studies. Equipped with precision optics, rotating stage with vernier scale, and high-quality objectives, it delivers accurate birefringence and crystal analysis. The combination of adjustable condenser and illumination system ensures optimal contrast and clarity for polarized light applications.

Technical Specifications

- Observation Mode: Monocular with polarizing system
- Eyepiece: 5X (cross), 10X, optional 15X
- Objectives: Achromatic P5X, P10X, P40X/45X
- Nosepiece: Triple revolving nosepiece
- Stage: 360° rotatable circular stage with vernier scale
- Focusing System: Coarse and fine focusing adjustment
- Condenser: Adjustable condenser N.A. 1.25
- Optics: Bertrand lens with polarizer and analyzer
- Illumination: Plano-concave mirror with optional sub-stage LED lamp

● POLM-134



Parameter	Specification
Microscope Type	Polarizing Monocular Microscope
Head	Monocular
Magnification	Up to 100X
Objectives	P5X, P10X, P40X
Stage	Rotatable stage (360° with vernier)
Illumination	Mirror / Optional LED

ULTRA SERIES MICROSCOPE

ADVANCED POLARIZING MONOCULAR MICROSCOPE

With Bertrand Lens & Built-in Illumination for Crystal Analysis

Model No. APM-135

Descriptions

A high-precision polarizing monocular microscope designed for advanced geological, mineralogical, and material science applications. It features a replaceable monocular head with Bertrand lens and polarizing attachments for detailed crystal and birefringence analysis. The precision rotatable stage with vernier scale, combined with high-quality optics and coaxial focusing, ensures accurate observation. Built-in illumination and adjustable condenser provide excellent light control for enhanced contrast in polarized light studies.

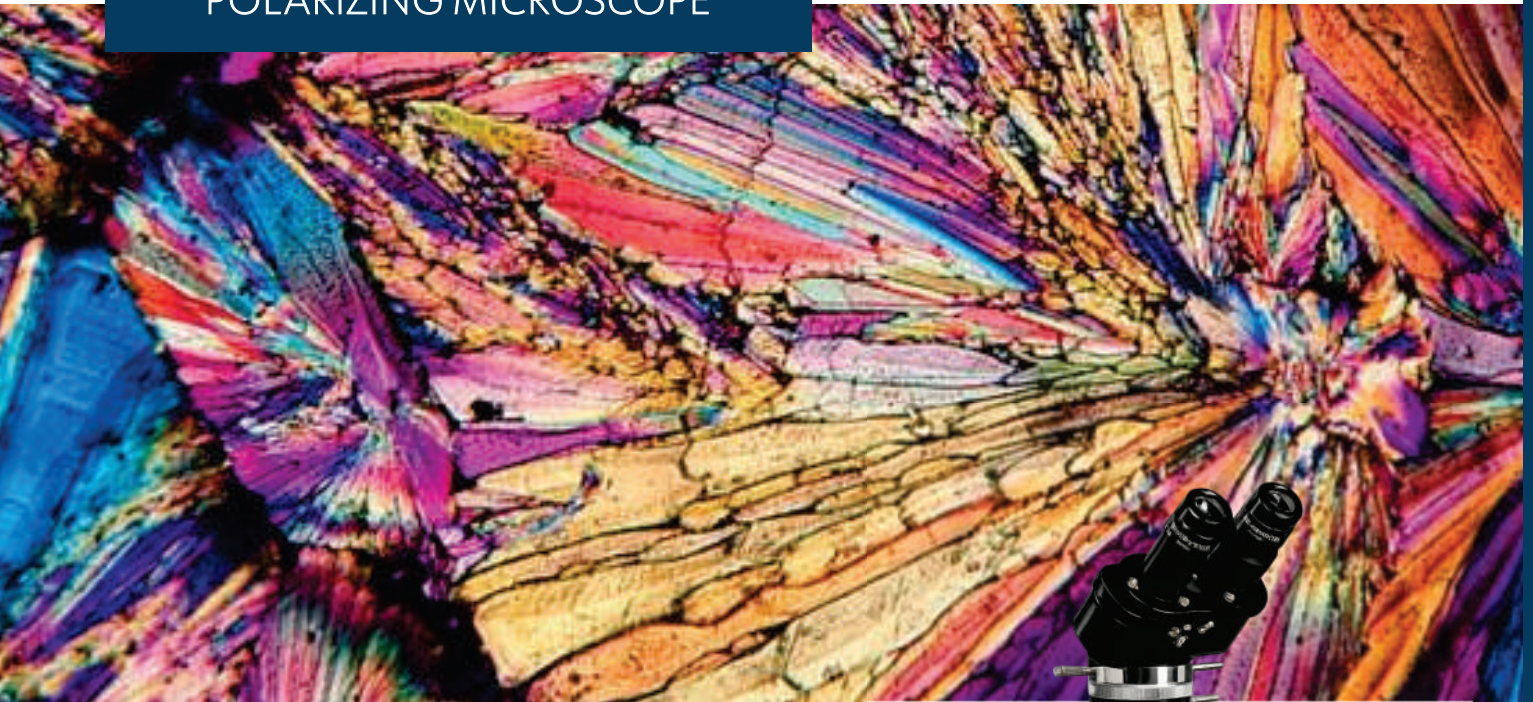
Technical Specifications

- Observation Mode: Monocular with polarizing system and analyzer
- Eyepiece: 5X (cross), 10X, optional 15X
- Objectives: P5X, P10X, P40X/45X
- Nosepiece: Triple revolving nosepiece
- Stage: 360° rotatable circular stage with vernier scale
- Focusing System: Co-axial coarse and fine focusing
- Condenser: Adjustable condenser N.A. 1.25
- Optics: Bertrand lens with polarizer, analyzer & compensator
- Illumination: Built-in 6V / 20W halogen lamp



Parameter	Specification
Microscope Type	Polarizing Monocular Microscope
Head	Monocular
Magnification	Up to 100X
Objectives	P5X, P10X, P40X
Stage	Rotatable stage (0–360° with vernier)
Illumination	Built-in halogen lamp

POLARIZING MICROSCOPE



ADVANCED BINOCULAR POLARIZING MICROSCOPE

With Bertrand Lens & Built-in Illumination for Crystal Analysis

Model No. ABPM-136

Descriptions

A versatile polarizing microscope with binocular viewing, designed for advanced geological, mineralogical, and research applications. It supports interchangeable monocular and trinocular heads, offering flexibility for observation and imaging. Equipped with Bertrand lens, analyzer, and compensator, it enables precise crystal and birefringence analysis. The rotatable stage with vernier scale, coaxial focusing, and built-in illumination ensure accurate, high-contrast observation for professional polarized light studies.

● ABPM-136



Technical Specifications

- Observation Mode: Binocular (convertible to monocular/trinocular) with polarizing system
- Eyepiece: 5X (cross), 10X, optional 15X
- Objectives: P5X, P10X, P40X/45X
- Nosepiece: Triple revolving nosepiece
- Stage: 360° rotatable circular stage with vernier scale
- Focusing System: Co-axial coarse and fine focusing
- Condenser: Adjustable condenser N.A. 1.25
- Optics: Bertrand lens with analyzer and 1/2 & 1/4 wave compensator
- Illumination: Built-in 6V / 20W halogen lamp



Parameter	Specification
Microscope Type	Polarizing Binocular Microscope
Head	Binocular (interchangeable)
Magnification	Up to 100X
Objectives	P5X, P10X, P40X
Stage	Rotatable stage (0-360° with vernier)
Illumination	Built-in halogen lamp

ULTRA SERIES MICROSCOPE

PREMIUM POLARIZING MICROSCOPE

With Bertrand Lens & Precision Illumination for Crystal Analysis

Model No. P-PRO-137

Descriptions

This polarizing microscope is specially designed for mineralogical, geological, and material science analysis • P-PRO-137 with precise polarized light observation. It features high-quality optics, a durable body, and smooth coaxial focusing for accurate specimen examination. Equipped with Bertrand lens, sliding analyzer, rotatable stage, and adjustable condenser, it ensures reliable performance in laboratories and research centers. The binocular head can also be replaced with monocular or trinocular options for flexible observation needs.

Technical Specifications

- Observation Mode: Binocular head replaceable with Monocular and Trinocular head
- Polarizing Attachment: Bertrand lens with sliding analyzer and 1/2 & 1/4 wave compensator
- Eyepiece: Paired eyepiece 5x (cross), 10x (ocular), optional 15x
- Objectives: P5x, P10x, P40x, P45x
- Specimen Stage: Rotatable circular stage divided into 0–360° with vernier
- Focusing System: Co-axial coarse and fine focusing



- mechanism
- Condenser: Adjustable condenser N.A. 1.25
- Illumination: Built-in light arrangement with 6V/20W halogen lamp



Parameter	Specification
Head Type	Binocular / Optional Monocular & Trinocular
Polarizing System	Bertrand Lens + Sliding Analyzer
Stage Type	360° Rotatable Circular Stage
Objective Set	P5x, P10x, P40x, P45x
Condenser	Adjustable N.A. 1.25
Light Source	Built-in 6V/20W Halogen Lamp

POLARIZING MICROSCOPE

ADVANCED POLARIZING BINOCULAR MICROSCOPE

With Bertrand Lens & Dual Illumination for Crystal Analysis

Model No. APBM-138

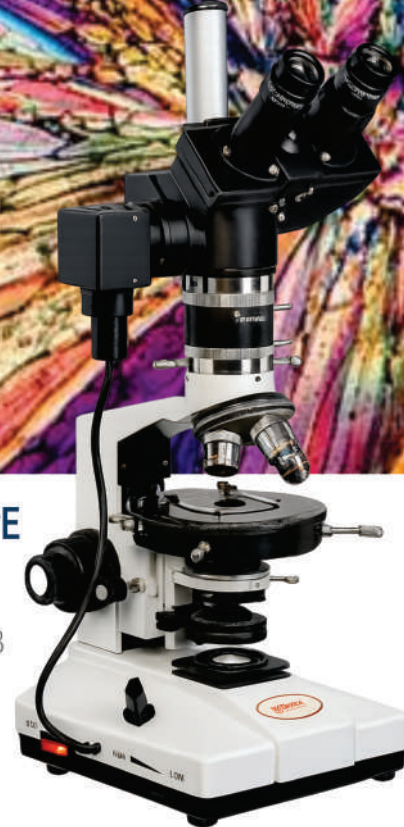
Descriptions

This advanced polarizing microscope is designed for precise crystal, mineral, and material analysis using polarized light observation. It features high-quality optics, smooth coaxial focusing, and a durable structure for reliable laboratory performance. Equipped with Bertrand lens, sliding analyzer, rotatable stage, and adjustable condenser, it ensures accurate specimen examination. Both incident and transmitted illumination systems provide enhanced viewing clarity, while the binocular head can be replaced with monocular or trinocular

Technical Specifications

- Observation Mode: Binocular head replaceable with Monocular and Trinocular head
- Polarizing Attachment: Bertrand lens with sliding analyzer and 1/2 & 1/4 wave compensator
- Eyepiece: Paired eyepiece 5x (cross), 10x (ocular), optional 15x
- Objectives: P5x, P10x, P40x, P45x
- Specimen Stage: Rotatable circular stage divided into 0–360° with vernier
- Focusing System: Co-axial coarse and fine focusing mechanism

● APBM-138



- Condenser: Adjustable condenser N.A. 1.25
- Illumination: Both incident and transmitted light systems provided



Parameter	Specification
Head Type	Binocular / Optional Monocular & Trinocular
Polarizing System	Bertrand Lens + Sliding Analyzer
Stage Type	360° Rotatable Circular Stage
Objective Set	P5x, P10x, P40x, P45x
Condenser	Adjustable N.A. 1.25
Light Source	Both Incident & Transmitted Illumination

METALLURGICAL MICROSCOPE



ADVANCED INVERTED METALLURGICAL MICROSCOPE

With Long Working Distance Optics & Köhler Illumination

Model No. INV-MET-139

• INV-MET-139

Descriptions

This advanced inverted metallurgical microscope is designed for precise observation of metals, crystals, and industrial samples. It features a trinocular compensation-free head with 360° rotation, long working distance plan achromatic objectives, and a triple-layer mechanical stage for smooth specimen handling. Equipped with epi-illumination, polarizing filters, coaxial focusing, and Köhler transmitted illumination, it ensures clear and accurate analysis. Its stable structure and ergonomic design make it ideal for research laboratories and industrial inspection applications.

Technical Specifications

- Observation Mode: Compensation free trinocular head, 45° inclined, 360° rotatable
- Interpupillary Distance: Adjustable from 54–75 mm with diopter adjustment
- Eyepiece: Wide field eyepiece with hard coating for better magnification results
- Objectives: Long working distance Plan Metallurgical Achromatic Objectives 5X, 10X, 20X
- Stage: Triple layer working stage, size 180 × 155 mm, moving range 75 × 40 mm

- Focusing System: Low position coaxial coarse and fine focusing with 0.002 mm precision
- Condenser: Swing-out condenser N.A. 0.7 for transmit light
- Illumination: Fixed Köhler transmitted illumination with 5W LED warm light and brightness control

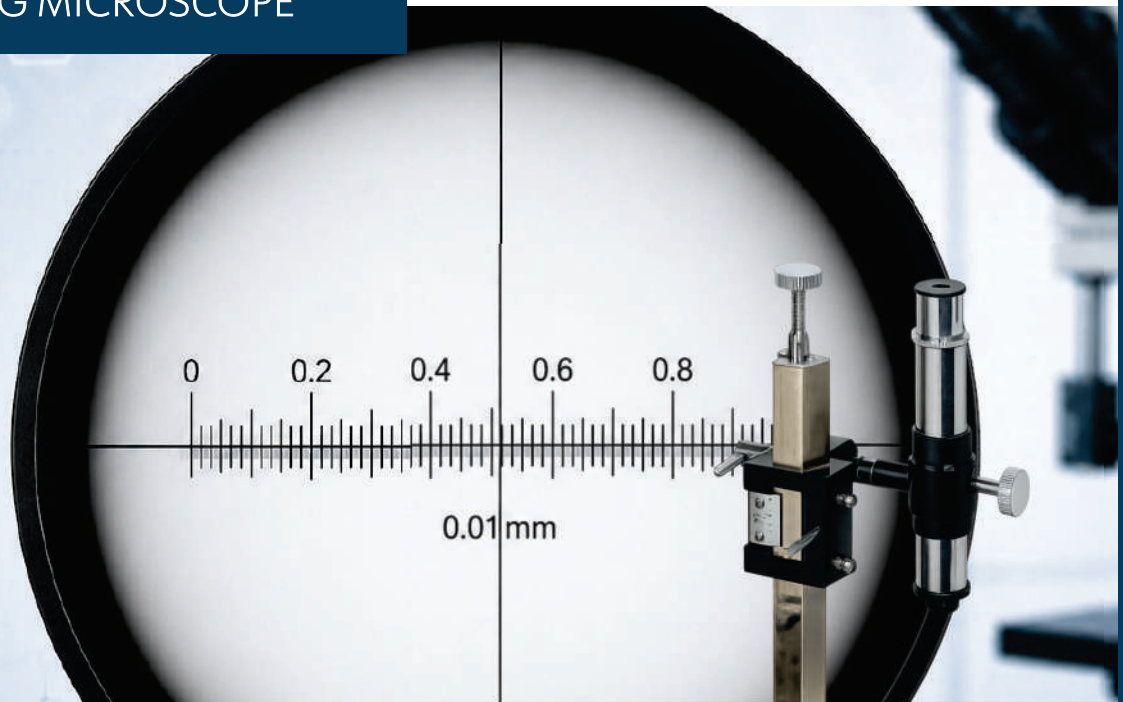


Parameter	Specification
Head Type	Trinocular, 45° Inclined, 360° Rotatable
Objective Set	Plan Metallurgical Achromatic 5X, 10X, 20X
Stage Type	Triple Layer Mechanical Stage
Focusing System	Coaxial Coarse & Fine Focus
Condenser	Swing-out Condenser N.A. 0.7
Illumination	5W LED Fixed Köhler Illumination

TRAVELING MICROSCOPE

PRECISION
MEASUREMENT

ACCURACY



PRECISION TRAVELLING MICROSCOPE

With Fine Vernier Reading & Smooth Motion Control

Model No. TM-140

Descriptions

This travelling microscope is designed for precise measurement and accurate laboratory observations in physics experiments and research applications. It features a strong cast iron base with a machined vee-top surface and three leveling screws for perfect stability. The microscope can move horizontally and vertically with smooth slow-motion control for exact readings. Equipped with achromatic optics, cross hair eyepiece, and fine vernier readings, it is ideal for colleges, laboratories, and scientific institutions.

• TM-140



- Objective: Achromatic 2X objective with focal length 50 mm
- Eyepiece: 10X eyepiece with cross hair line
- Packaging: Inner Thermocol / Styrofoam packing with outer cardboard box

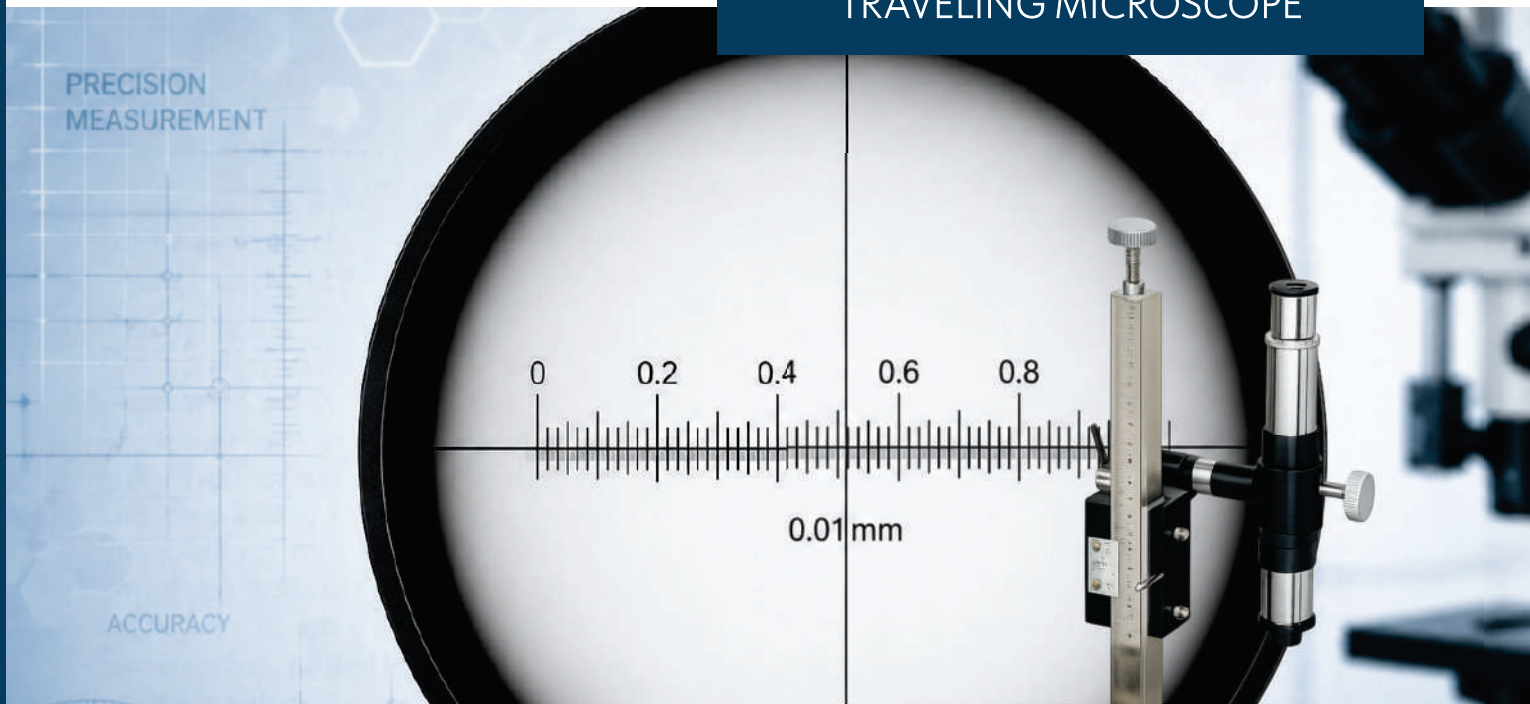
Technical Specifications

- Base: Heavy cast iron base with machined vee-top surface
- Leveling System: Three leveling screws for accurate horizontal adjustment
- Travel Range: Horizontal movement up to 22 cm and vertical movement up to 15 cm
- Motion Control: Two slow-motion knobs for precise reading adjustment
- Vernier Reading: Available in 0.01 mm or 0.02 mm accuracy



Parameter	Specification
Base Type	Cast Iron Machined Vee-Top Base
Travel Range	Horizontal 22 cm / Vertical 15 cm
Vernier Accuracy	0.01 mm / 0.02 mm
Objective	Achromatic 2X (F.L. 50 mm)
Eyepiece	10X with Cross Hair Line
Motion System	Dual Slow-Motion Knobs

TRAVELING MICROSCOPE



DELUXE TRAVELLING MICROSCOPE

With Three-Axis Precision Measurement System

Model No. DTM-141

Descriptions

This deluxe travelling microscope is designed for precise three-axis measurement in physics laboratories and research applications. It allows accurate horizontal, vertical, and right-angled transverse movement with a smooth rack and pinion mechanism for reliable readings. Built with a strong and stable base, it ensures excellent performance during practical experiments. Equipped with achromatic optics, a clear 10X eyepiece, and precise movement control, it is ideal for colleges, laboratories, and scientific institutions.

Technical Specifications

- Type: Deluxe travelling microscope for three-axis measurement
- Measurement Axes: Horizontal, vertical, and right-angled transverse movement
- Horizontal Travel: Up to 20 cm movement range
- Vertical Travel: Up to 15 cm movement range
- Right-Angled Travel: Transverse movement up to 25 mm
- Objective: Achromatic 2X objective with focal length 50



• DTM-141

- mm
 - Eyepiece: 10X eyepiece for clear observation
- Packaging: Inner Thermocol / Styrofoam packing with outer cardboard box



Parameter	Specification
Microscope Type	Deluxe Travelling Microscope
Measurement Axes	Horizontal, Vertical, Right-Angled
Horizontal Travel	20 cm
Vertical Travel	15 cm
Objective	Achromatic 2X (F.L. 50 mm)
Eyepiece	10X

CAMERA

With LWD Objectives & LED Illumination

Model No. TCM-142

Descriptions

This advanced digital microscope camera is designed for high-resolution imaging, laboratory analysis, and professional microscopy applications. It features a high-performance Sony sensor with excellent color reproduction, low noise, and stable image transmission for clear observation. Equipped with USB 3.0 connectivity, C-mount lens compatibility, and 4K Ultra-HD output, it ensures smooth image capture and video recording. Ideal for research laboratories, educational institutions, and industrial inspection requiring precise digital microscopy solutions.

Technical Specifications

- Sensor Type: High-performance Sony CMOS sensor
- Pixel Resolution: Available in 3MP / 5MP with 4K Ultra-HD output
- Sensor Size: 1/2.5" and 1/1.8" sensor options
- Pixel Size: 2.1 μ m / 1200 μ m depending on model
- Resolution: 2048 × 1536 / 2592 × 1944 / 3840 × 2160P
- Data Interface: USB 3.0 high-speed transmission
- Lens Mount: Standard C-Mount lens support
- Operating System: Compatible with Windows 10 / 11 (32/64 bit)



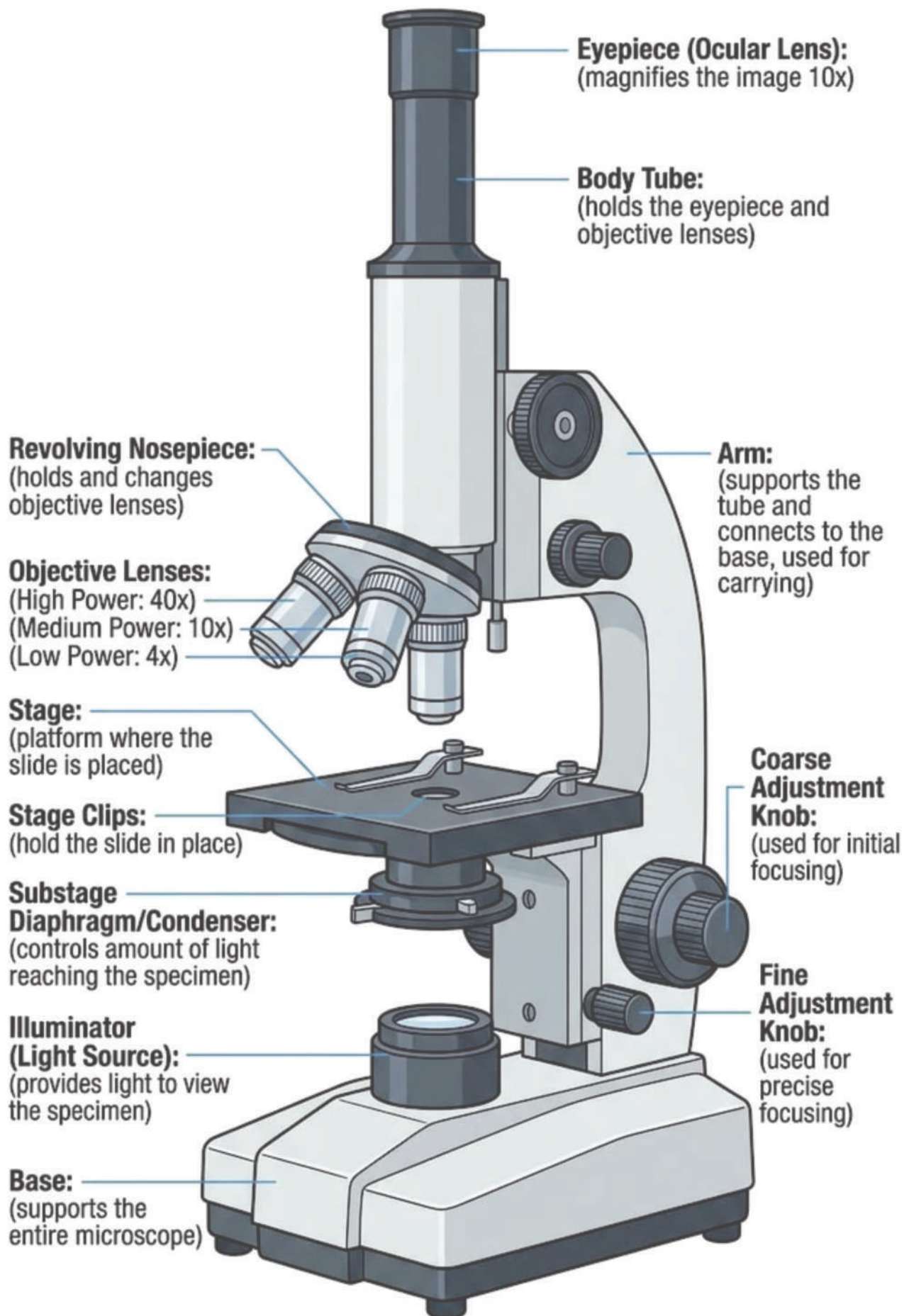
MICRO CAM

NEW 4K Ultra HD Digital Camera

Model No. TCM-143

Sensor size	Sensor 1/1.8" SONY
Pixel Size	1200 μ m
Frame rate	30 FPS
Resolution	3840 x 2160P
Gain Control	Support
Pixel Depth	12bit
Definition	4K UHD
Exposure	Manual/AUTO
White Balance	Manual/AUTO
Photo & Video	Support
Image format	TIF, BMP, JPG, RAW
Operating system	Windows 10/11 32/64bit
Camera adapter	C-mount
Power supply	12V 1A







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