



# BIOLOGICAL MICROSCOPE

## QualiBM-100i

# Biological Microscope

## QualiBM-100i

The QualiBM-100i Biological Microscope is designed for daily use in medical, clinical, pathology, and biological applications. It features a sleek and durable construction with intuitive ergonomics and a high-efficiency heat sink system that keeps the unit cool during extended operation. Its solid, reinforced frame—from arm to base—offers excellent vibration resistance, ensuring stability and long-term reliability.

Equipped with the advanced UCIS universal infinity-corrected optical system, the QualiBM-100i minimizes chromatic aberration and field curvature, delivering sharp, high-contrast images with minimal glare. The high numerical aperture objectives support a range of techniques including bright field, phase contrast, darkfield, and polarization. Whether used with an eyepiece or paired with a digital camera, the system offers outstanding image clarity and seamless accessory integration.



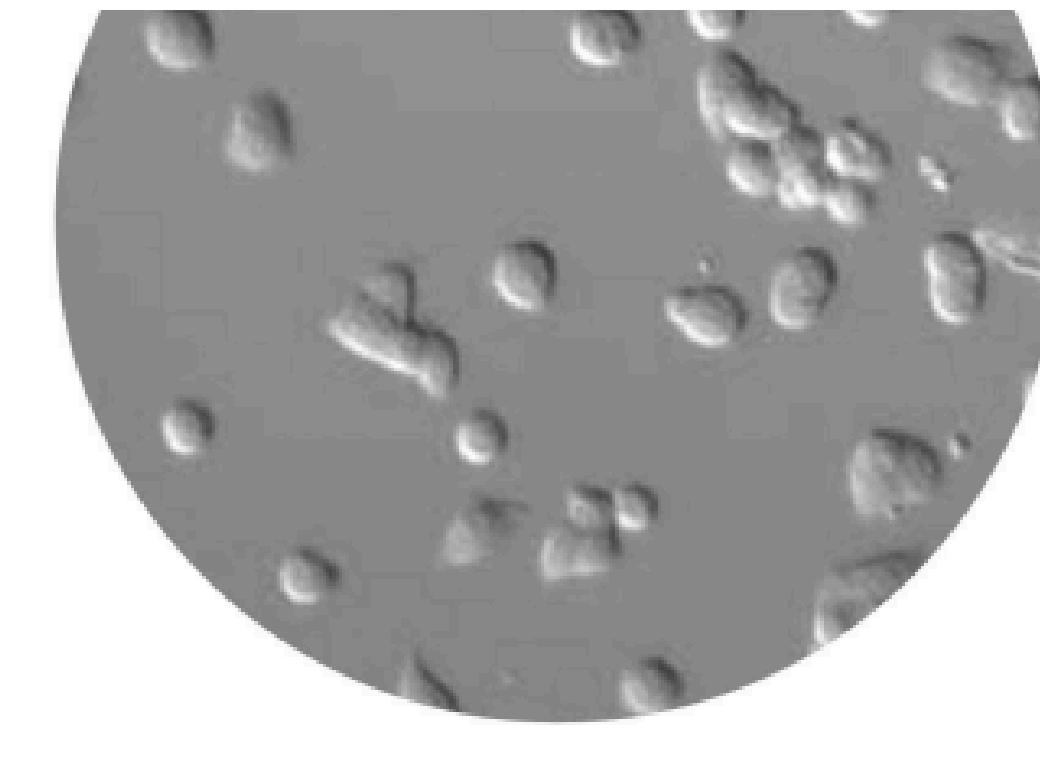
## FEATURES/ADVANTAGES

### Advanced Objectives

Equipped with UCIS Infinity Achromatic Optics, the high-NA objectives deliver flat, high-resolution images across the full field of view with minimal distortion.



Brightfield



Phase-contrast

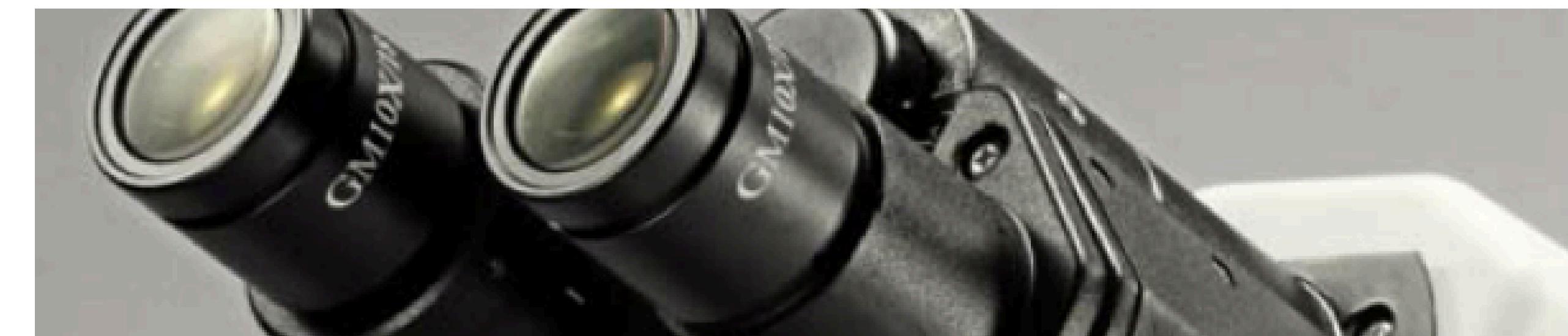
### 10X High-Eyepoint Eyepieces

Features 21mm high-eyepoint eyepieces with a wide  $\Phi 18\text{mm}$  field of view, adjustable diopter, and optional eye shades for user comfort.



### Ergonomic Viewing Tube

Inclined at  $30^\circ$  for natural posture during use. Offers 52–74mm adjustable interpupillary distance and a  $360^\circ$  rotatable design for flexible positioning.



## FEATURES/ADVANTAGES

### Trinocular Tube

Integrated 50/50 light-splitting prism with high-quality coating ensures clear imaging. Easily connects with digital cameras and computers.



### Abbe Condenser with Diaphragm Scale

NA 1.25 condenser with adjustable aperture iris diaphragm and PH slide socket. Height and center adjustable, with color-coded diaphragm scale markings for accurate alignment with objective lenses



### Reversed Quadruple Nosepiece

Streamlined reversed design with four objective slots for quick magnification changes.



## FEATURES/ADVANTAGES

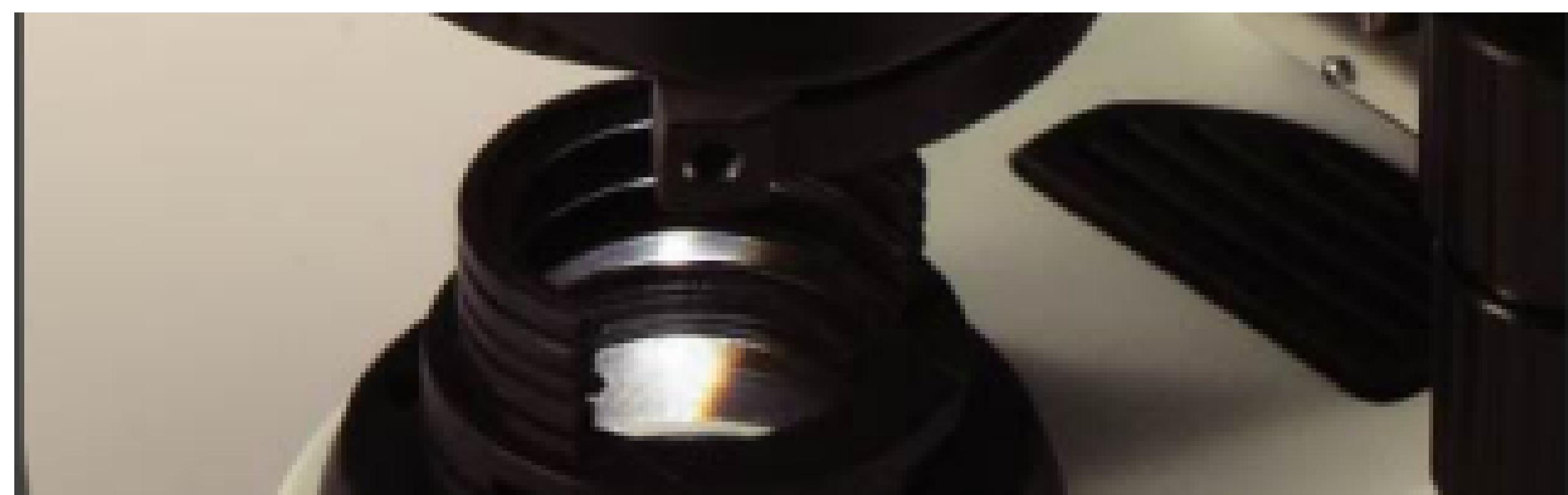
### Ergonomic Co-axial Coarse and Fine Adjustment Knob

Low-positioned focusing knobs for comfort. Coarse focus offers 14mm/rotation (tension adjustable); fine focus provides 0.1mm/rotation with 1-micron precision on the left dial.



### Bright, Even Illumination

Equipped with a 6V/20W halogen bulb and high-aperture aspherical lens in a standard Kohler setup. Optional Kohler with field diaphragm provides superior brightness and uniform lighting. Brightness control is easy to access and adjust.



### Grasping Part

Built-in handle for convenient and stable transport of the microscope.



## FEATURES/ADVANTAGES

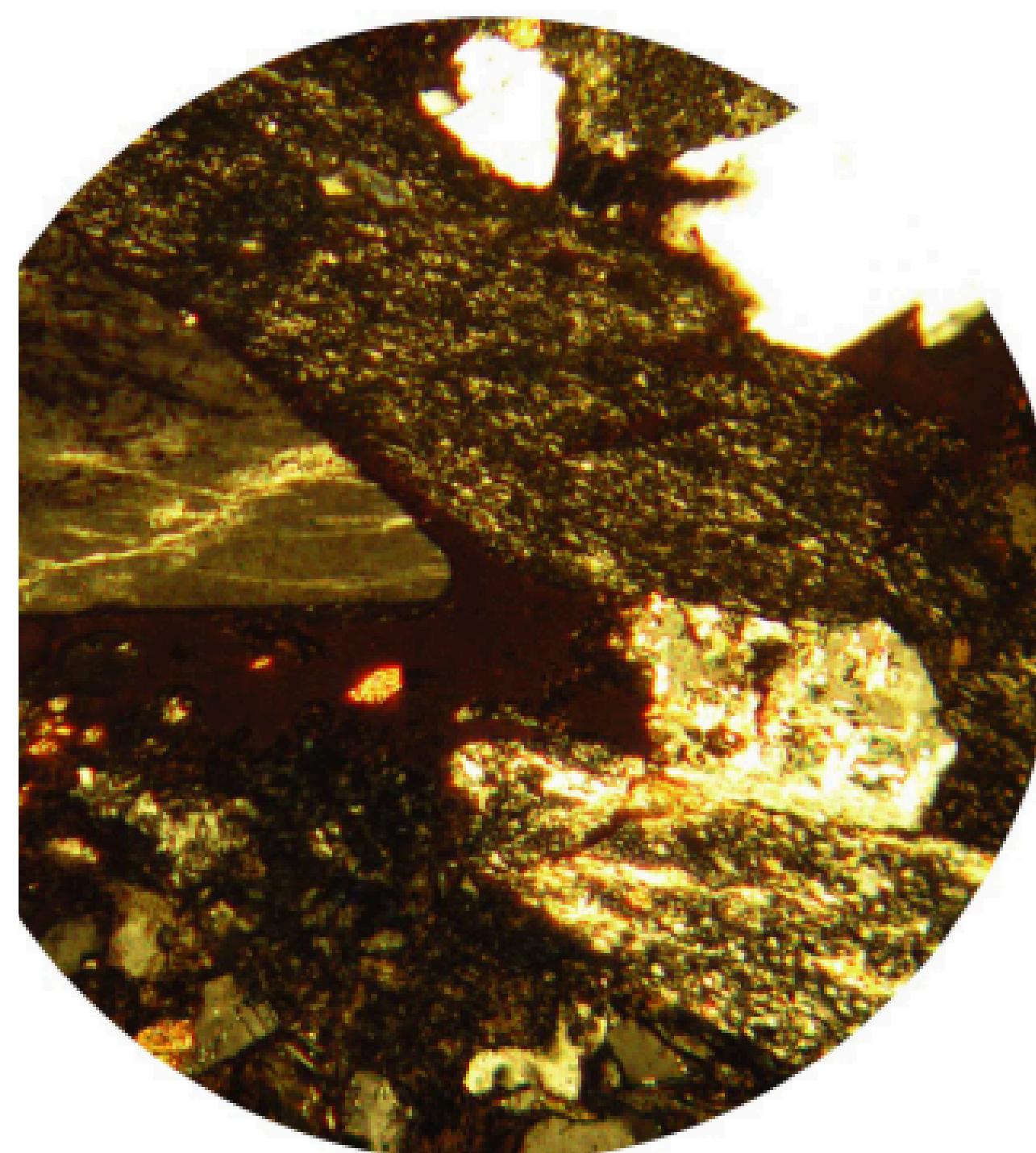
### Darkfield Condenser

Optional darkfield condenser allows for quick installation and enables high-contrast darkfield observation.

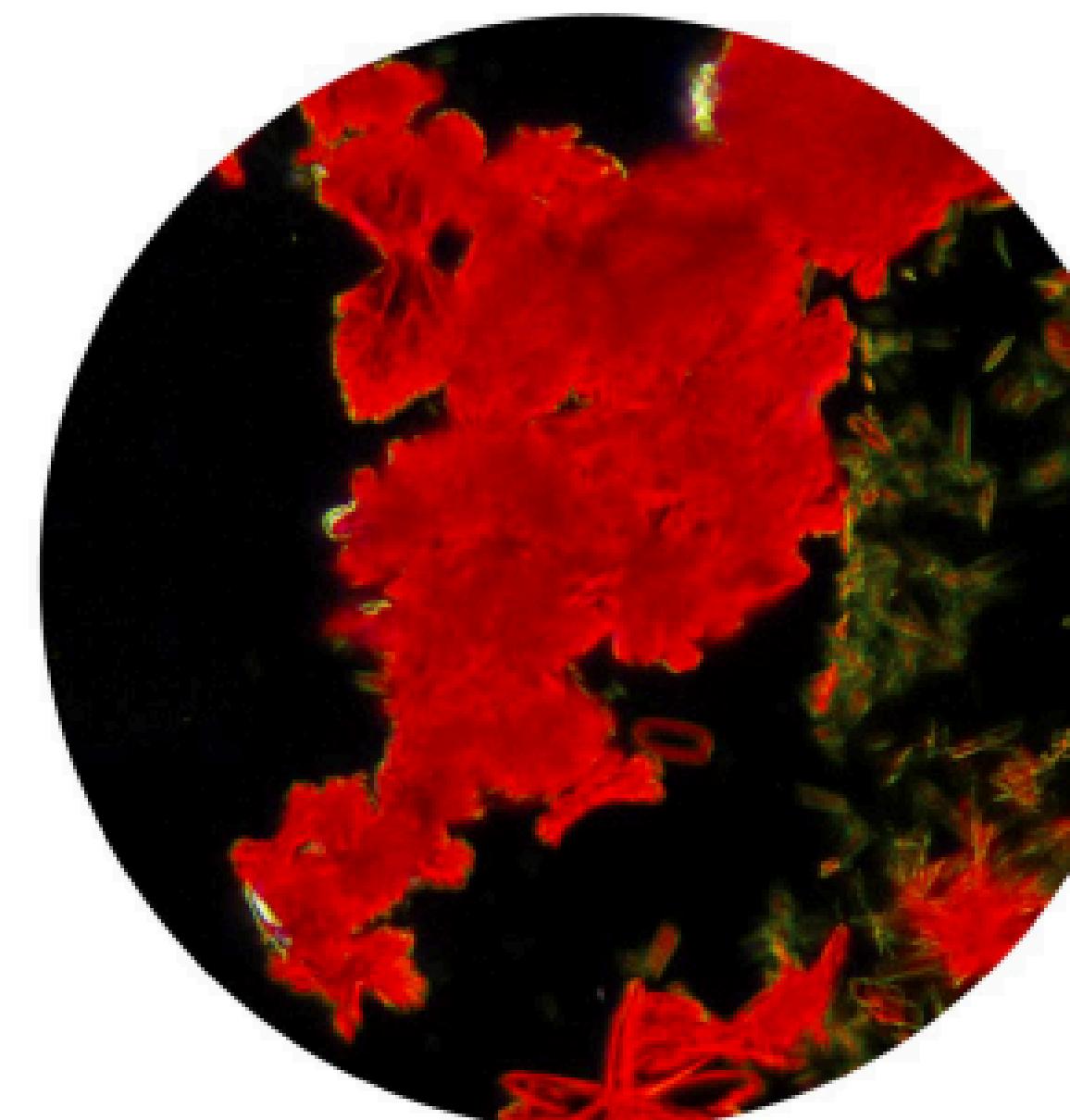


### Easy Lamp Replacement

User-friendly lamp housing design allows quick bulb replacement with a simple grip-and-pull mechanism.



Polarization



Darkfield

### High-Efficiency Heat Sink

Advanced heat dissipation system keeps the surface temperature low—even after 24 hours of continuous use—ensuring user safety and prolonged device lifespan.

# TECHNICAL SPECIFICATIONS

PARTS	SPECIFICATIONS	QUALIBM- 102I	QUALIBM- 103I	ORDER NUMBER
Frame	One-piece construction from arm to base	●	●	100
Optics	UCIS Infinity Independent Achromatic Optical Design	●	●	100
Seidentopf Observation Tube	Trinocular Tube, Interpupillary distance 52-75mm, 30° inclined, trinocular light is split 20/80 by a high quality prism		●	MT3
	Trinocular Tube, Interpupillary distance 48-75mm, 30° inclined, trinocular light is split 20/80 by a high quality prism		○	MT3A
	40X/0.70 ∞/0.17, WD0.76 (Spring)	●	●	WB-X40A
	100X/1.25 ∞/0.17, WD0.12 (Spring,Oil)	●	●	WB-X100A
Plan Eyepiece	WF10X/18, High eye-point up to 21mm, diopter adjustable	●●	●●	E1018PB
	WF10X/20, High eye-point up to 21mm, diopter adjustable	○○	○○	E1020PB
	WF16X/14	○○	○○	E1614BA
	WF10X/18(Pointer), High eye-point up to 21mm, diopter adjustable	○	○	E1018GB
	WF10X/20(Pointer), High eye-point up to 21mm, diopter adjustable	○	○	E1020GB
	Reticule Eyepiece: CROSSWF10X/18	○	○	E1018RA
	Reticule Eyepiece: CROSSWF10X/20	○	○	E1020RB
Centering Telescope	CTE	○	○	WY2
Infinity Achromatic Objectives	4X/0.13 ∞/0.17, WD12.31	●	●	WB-X4A
	10X/0.30 ∞/0.17, WD6.75	●	●	WB-X10A
	40X/0.70 ∞/0.17, WD0.76 (Spring)	●	●	WB-X40A
	100X/1.25 ∞/0.17, WD0.12 (Spring,Oil)	●	●	WB-X100A

# TECHNICAL SPECIFICATIONS

PARTS	SPECIFICATIONS	QUALIBM- 102I	QUALIBM- 103I	ORDER NUMBER
Infinity Achromatic Phase-Contrast Objectives (Positive or Negative)	PH 10X/0.30 $\infty$ /0.17, WD6.75	<input type="radio"/>	<input type="radio"/>	WB-XPHp10A/WB-XPHn10A
	PH 40X/0.70 $\infty$ /0.17, WD0.76 (Spring)	<input type="radio"/>	<input type="radio"/>	WB-XPHp40A/WB-XPHn40A
	PH 100X/1.25 $\infty$ /0.17, WD0.12 (Spring,Oil)	<input type="radio"/>	<input type="radio"/>	WB-XPHp100A/WB-XPHn100A
Infinity Plan Objectives	Plan 4X/0.13 $\infty$ /0.17, WD12.31	<input type="radio"/>	<input type="radio"/>	WB-P4A
	Plan 10X/0.30 $\infty$ /0.17, WD4.00	<input type="radio"/>	<input type="radio"/>	WB-P10A
	Plan 20X/0.45 $\infty$ /0.17, WD1.24	<input type="radio"/>	<input type="radio"/>	WB-P20A
	Plan 40X/0.70 $\infty$ /0.17, WD0.29 (Spring)	<input type="radio"/>	<input type="radio"/>	WB-P40A
	Plan 60X/0.80 $\infty$ /0.17, WD0.40 (Spring)	<input type="radio"/>	<input type="radio"/>	WB-P60A
	Plan 100X/1.25 $\infty$ /0.17, WD0.09 (Spring,Oil)	<input type="radio"/>	<input type="radio"/>	WB-P100A
Infinity Plan Phase- Contrast Objectives	PH Plan 10X/0.30 $\infty$ /0.17, WD4.00	<input type="radio"/>	<input type="radio"/>	WB-PPHp10A/WB-PPHn10A
	PH Plan 20X/0.45 $\infty$ /0.17, WD1.24	<input type="radio"/>	<input type="radio"/>	WB-PPHp20A/WB-PPHn20A
	PH Plan 40X/0.70 $\infty$ /0.17, WD0.29 (Spring)	<input type="radio"/>	<input type="radio"/>	WB-PPHp40A/WB-PPHn40A
	PH Plan 60X/0.80 $\infty$ /0.17, WD0.40 (Spring)	<input type="radio"/>	<input type="radio"/>	WB-PPHp60A/WB-PPHn60A
	PH Plan 100X/1.25 $\infty$ /0.17, WD0.09 (Spring,Oil)	<input type="radio"/>	<input type="radio"/>	WB-PPHp100A/WB-PPHn100A
Phase-Contrast Slide	10X PH	<input type="radio"/>	<input type="radio"/>	PCB-XPH10A
	40X PH	<input type="radio"/>	<input type="radio"/>	PCB-XPH40A
	100X PH	<input type="radio"/>	<input type="radio"/>	PCB-XPH100A

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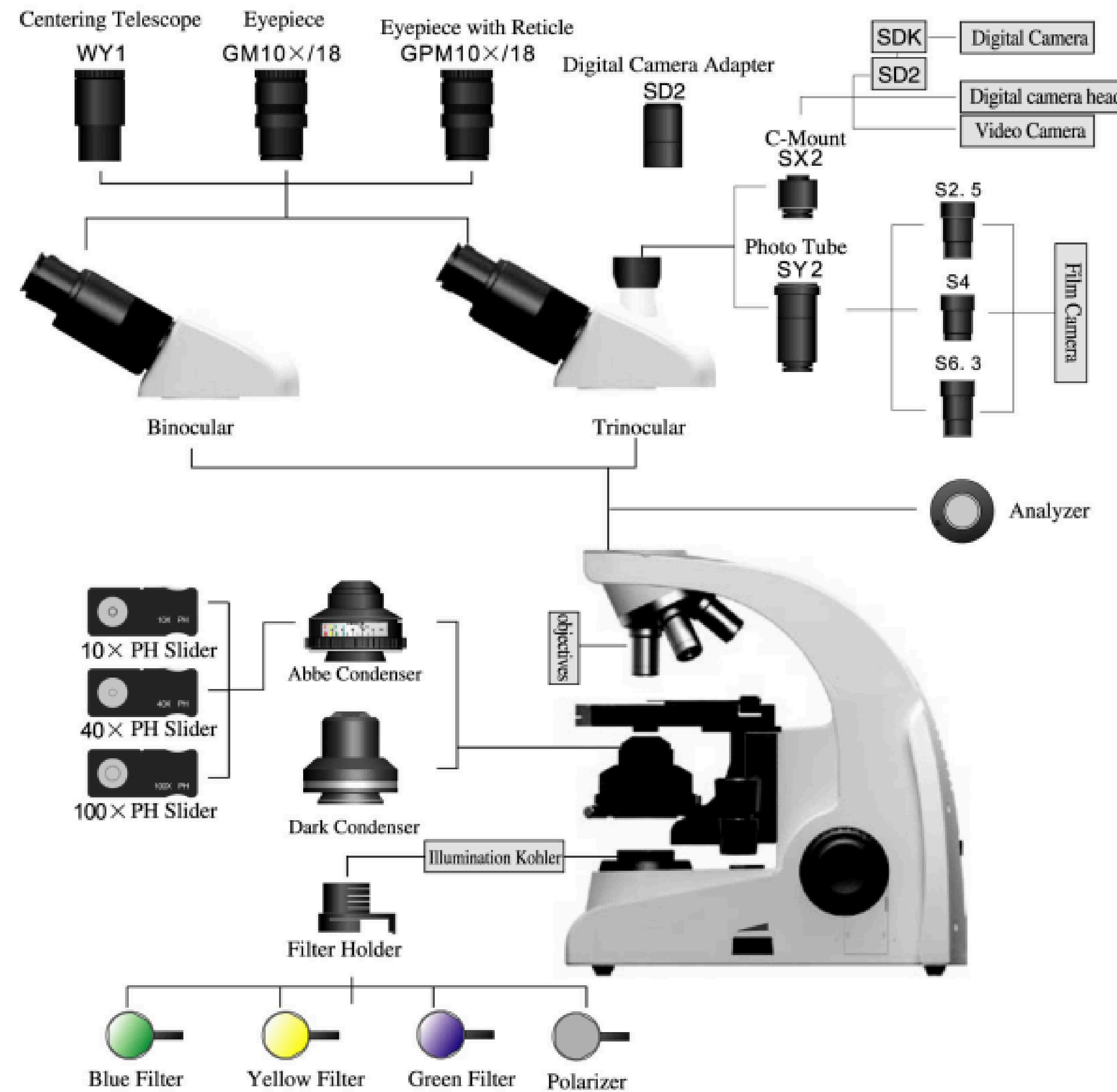
PARTS	SPECIFICATIONS	QUALIBM- 102I	QUALIBM- 103I	ORDER NUMBER
Condenser	Abbe condenser: NA 1.25, with iris diaphragm, with socket to accommodate PH-slide. Condenser center adjustable, color-coded diaphragm scale markings corresponded with the objectives of different powers	●	●	JG3
	Dark Condenser	○	○	JG10
Stage	Mechanical Stage: 156x138mm platform, with X/Y travel of 76x54mm by low-positioned X/Y coaxial control knob, with scale mark and specimen-slide clip, enough space to hold 2 specimen-slides	○	○	ZT2
	Mechanical Stage: 142x135mm platform, with X/Y travel of 76x52mm by low-positioned X/Y coaxial control knob, with scale mark and specimen-slide clip, enough space to hold 2 specimen-slides	●	●	ZT3
Revolving Nosepiece	Quadruple, inward facing	●	●	ZQ470
	Quintuple, inward facing	○	○	ZQ570
Illumination Kohler	No field diaphragm	●	●	KL2
	With field diaphragm	○	○	KL3
Electrical Parts	For Halogen Bulb Input: 100-240V ~0.5A, 47-63Hz, Output:6V 3.4A, Fuse:3.15A, 250V, F Φ5×20mm, Halogen Bulb Socket: G4. CE Certified	●	●	DQ3
	For LED	○	○	DQL1
C-Mount	SX2: 0.5X		○	SX2
	SX3: 1X		●	SX3
Digital Camera Adapter	SD2		○	SD2
Photo Tube	SY2		○	SY2

# TECHNICAL SPECIFICATIONS

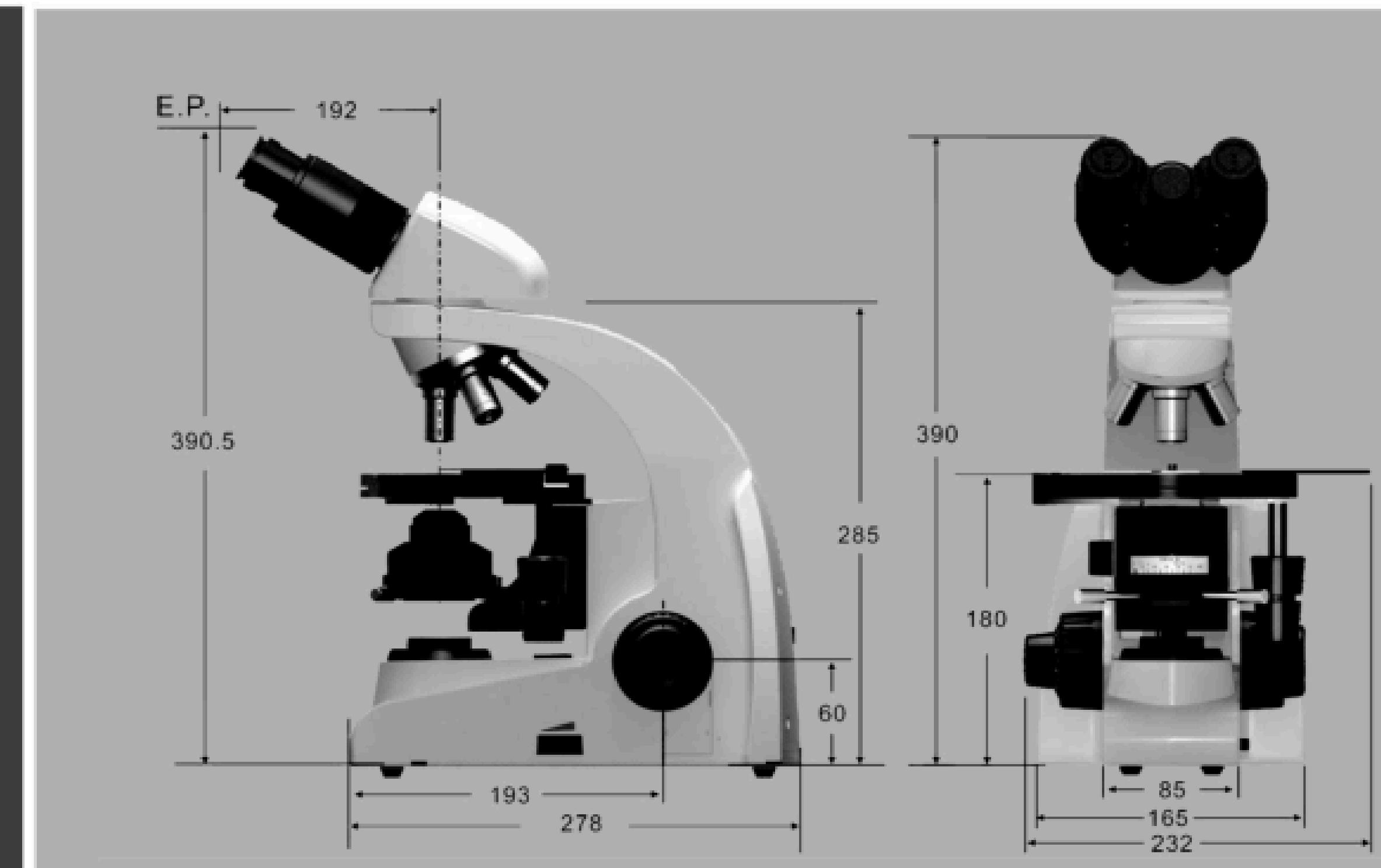
PARTS	SPECIFICATIONS	QUALIBM- 102I	QUALIBM- 103I	ORDER NUMBER
Photo Eyepiece	PE2.5X		○	S2.5
	PE4X		○	S4
	PE6.3X		○	S6.3
Filter	Blue	●	●	LA2-0011
	Green	○	○	LU2-0011
	Yellow	○	○	LH2-0011
	Grass Glass	○	○	LB2-0011
Filter Holder	(Attached to the Kohler) for more than one filter	○	○	LA1-0071
Polarization kits	Analyzer	○	○	PQ1
	Polarizer	○	○	PY1
Illumination Bulb	6V20W Osram Halogen Bulb	●	●	BZ-0022A
	3W LED Bulb	○	○	DQL1-1000
Immersion Oil	8ml	●	●	BZ-0027
Allen Screw Driver	Φ2mm	●	●	BZ2-0018
Power Line	1.8m, CE certified	●	●	BZ-0021
Package	Inner package: foam, plastic bag. Outer Package: Paper box	●	●	BZ3-0011A

Symbol Meaning: ● means standard, ○ means optional

# TECHNICAL SPECIFICATIONS



Dimensions ( Unit : mm )



Net weight of Standard Outfits: 6.7kg

Gross Weight of Standard Outfits: 9.1kg



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# Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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