micron OPTIK

RESEARCH MICROSCOPE

Cresta

Cresta - Series

With a very modern look Featuring vide versatility, the newly introduced ***"Micron Optik"*** *Cresta* series of research microscopes are ergonomically designed for exceptional performance and simple operation which extends top quality optics and uncompromising performance for educational and Routine research

ZS-50

ZS-50 Plus

ZS-50i

Key Features

Model	ZS-50	ZS-50 *Plus*	ZS-50*i*
Optical System	Finite	Finite	Infinite
Viewing Head	Sliding	Siedentopf	Siedentopf
Nosepiece	Outward	Inward	Inward

Sophiscated observation with Trinocular tube

To allow microscope users to not only observe and study real time images through the traditional eyepieces, an optional available trinocular observation tube arrangement allows user to observe directly on LCD screens through digital USB cameras or tablets.

Compact & Solid Innovative Frame

- Highly rigid single mould body frame
- Built in window in arm for easy carriage
- Conveniently positioned focus drive for stress free operation

Reverse Angle Nosepiece

- The revolving nosepiece facing towards the arm offers more space on the stage, delivering a perfect sight onto the specimen for much easier handling
- The included ring with groves ensures a good grip for moving the desired objective into the light path

Ergonomic Arc type Observation Tube

- Arc type tube helps position the eyepieces in two different heights
- Interpupillary distance adjustment and the dioptre adjustment ensures that the microscope easily fits to every user

Advanced Illumination system

Cresta series adopts High performance LED illumination system with the characteristics of energy efficiency, environmental protection and long lifetime.

Anti Fungus Treatment

- Operating the Cresta in hot and humid climate does not cause any problems
- Special anti fungal treatment of all optical parts to make images sharp and clear.

SPECIFICATIONS

		ZS-50	ZS-50 *Plus*	ZS-50 *i*
OPTICAL SYSTEM		Finite Corrected Optical System		Infinite Corrected Optical System
VIEWING HEAD		45 Degree inclined SLIDING TYPE	30 Degree inclined SIENDENTOPF ARC TYPE	
OBSERVATION TUBE	BINOCULAR	•	•	•
	TRINOCULAR	•	•	•
EYEPIECE		WF 10X/18MM	WF 10X/20MM	
OBJECTIVES(DIN)		PLAN ACHROMAT 4X NA 0.10 PLAN ACHROMAT 10X NA 0.20 PLAN ACHROMAT 40X(S/L) NA 0.65 PLAN ACHROMAT 100X(S/L) NA 1.25		INFINITY PLAN ACHROMATIC 4X NA 0.10 INFINITY PLAN ACHROMATIC 10X NA 0.20 INFINITY PLAN ACHROMATIC 40X(S/L) NA 0.65 INFINITY PLAN ACHROMATIC 100X(S/L) NA 1.25
NOSEPIECE		QUADRUPLE/QUINTUPLE BALL BEARING NOSE PIECE		
		OUTWARD FACING	INWARD FACING	
MECHANICAL STAGE		LOW DRIVE CO-AXIAL CONTROL, HAVING X & Y MOVEMENT OF 55MM & 75MM		
FOCUSSING SYSTEM		CO-AXIAL COARSE AND FINE FOCUSING ON BOTH SIDES		
CONDENSOR		ABBE CONDENSOR N.A. 1.25, WITH IRIS DIAPHRAGM MOVABLE ON RACK & PINION		
BUILT IN ILLUMINATION		LED 3W OR 6V 20W HALOGEN(OPTIONAL) WITH INBUILT RECHARGABLE BATTERY		
ELECTRICAL		UNIVERSAL INPUT 100V-240V AC, 50/60 HZ, BUILT IN VOLTAGE STABILIZER		

Optional Accessories

Fluorescence Attachment

2MP/5MP Camera

Phase Contrast

HD Camera

Dark Field Attachment

LCD Touch Screen

MAKE IN INDIA

EN-ISO-13485 Certified

Certified

ISO 9001:2008 CERTIFIED COMPANY

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BINO CxL

BIOLOGICAL MICROSCOPE

Micron offers *Cxl* series fulfills all features of a Modern microscopes with latest techniques, Economical Design,fulfills the complete features of a Biological Microscopes with Three models i.e. MONO *Cxl*, BINO *Cxl* & TRINO *Cxl*.

Technical Specifications		
Viewing Tubes	BINO *Cxl*	Binocular head 45° inclined
	MONO *Cxl*	Monocular head 45° inclined
	TRINO *Cxl*	Monocular head 45° inclined
Nose Piece	Quadruple Ball bearing Nose piece.	
Mechanical Stage	Low Drive Co-axial control, having X & Y movement of 55 mm & 75 mm.	
Focussing System	Co-axial Coarse & Fine focussing with focussing lock.	
Condensor	Abbe Condensor N.A. 1.25, with iris dia-phragm movable on Rack & Pinion.	
Illumination	LED 3watt with intensity control, input 220V. Battery backup (optional) or 6V-20W, halogen bulb (on demand)	
Objective (Ach)	4x, 10x, 40x S/L & 100x Oil (P.D.:37MM)	
Eye Piece	Wide Field 10x	
Accessories	Dust Cover, Halogen Lamp	
Packing	Duly Packed in Styrofom Box	

MONO *Cxl*

The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress without notice and without obligation. All Micron Optik Instruments are warranted against defect in materials and workmanship for one year .

MICROSCOPES.

Mark

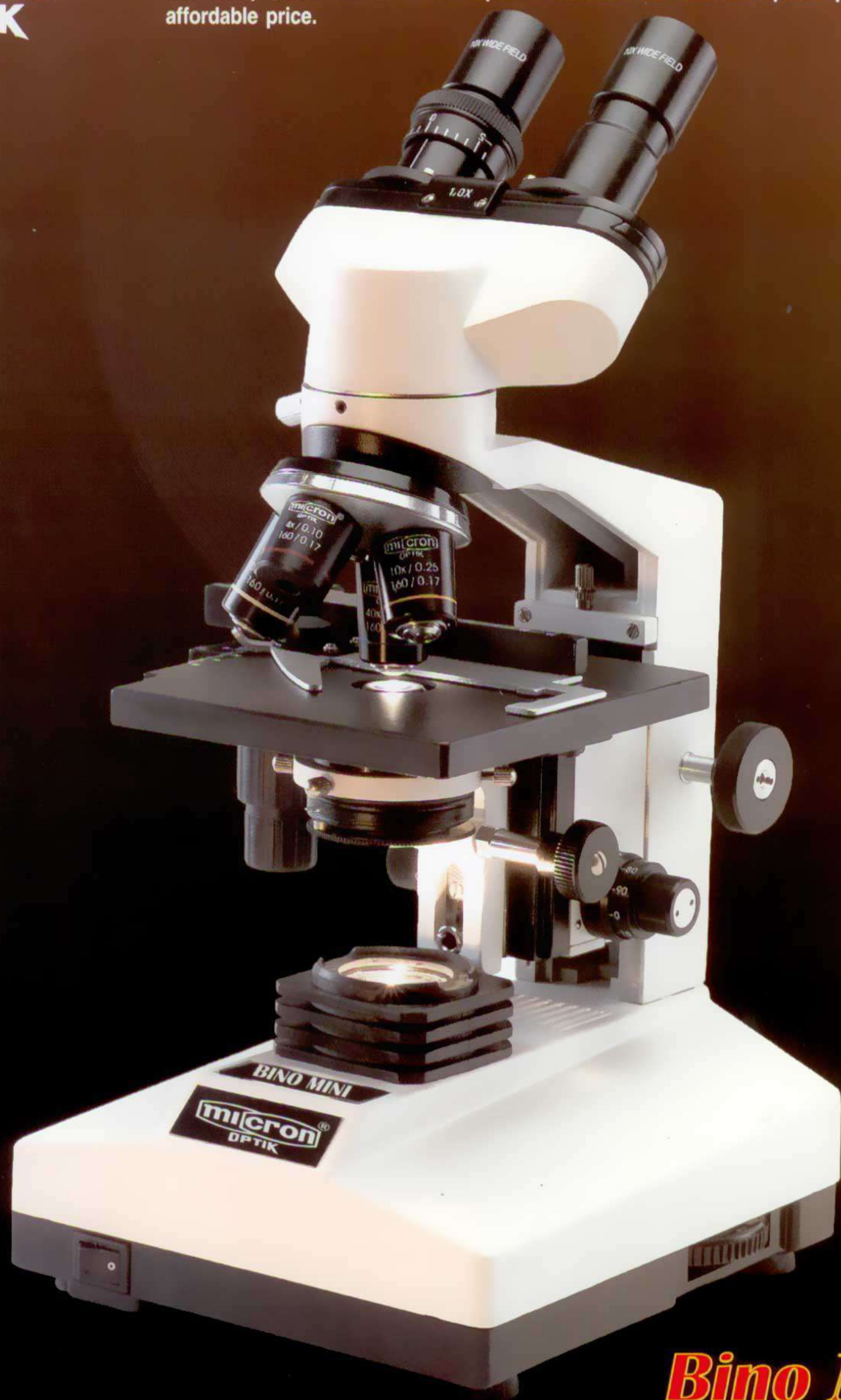
Certified

EN-ISO-13485 Certified

An ISO 9001:2008 CERTIFIED COMPANY

MICRON KG-6 SERIES EDUCATIONAL MICROSCOPE

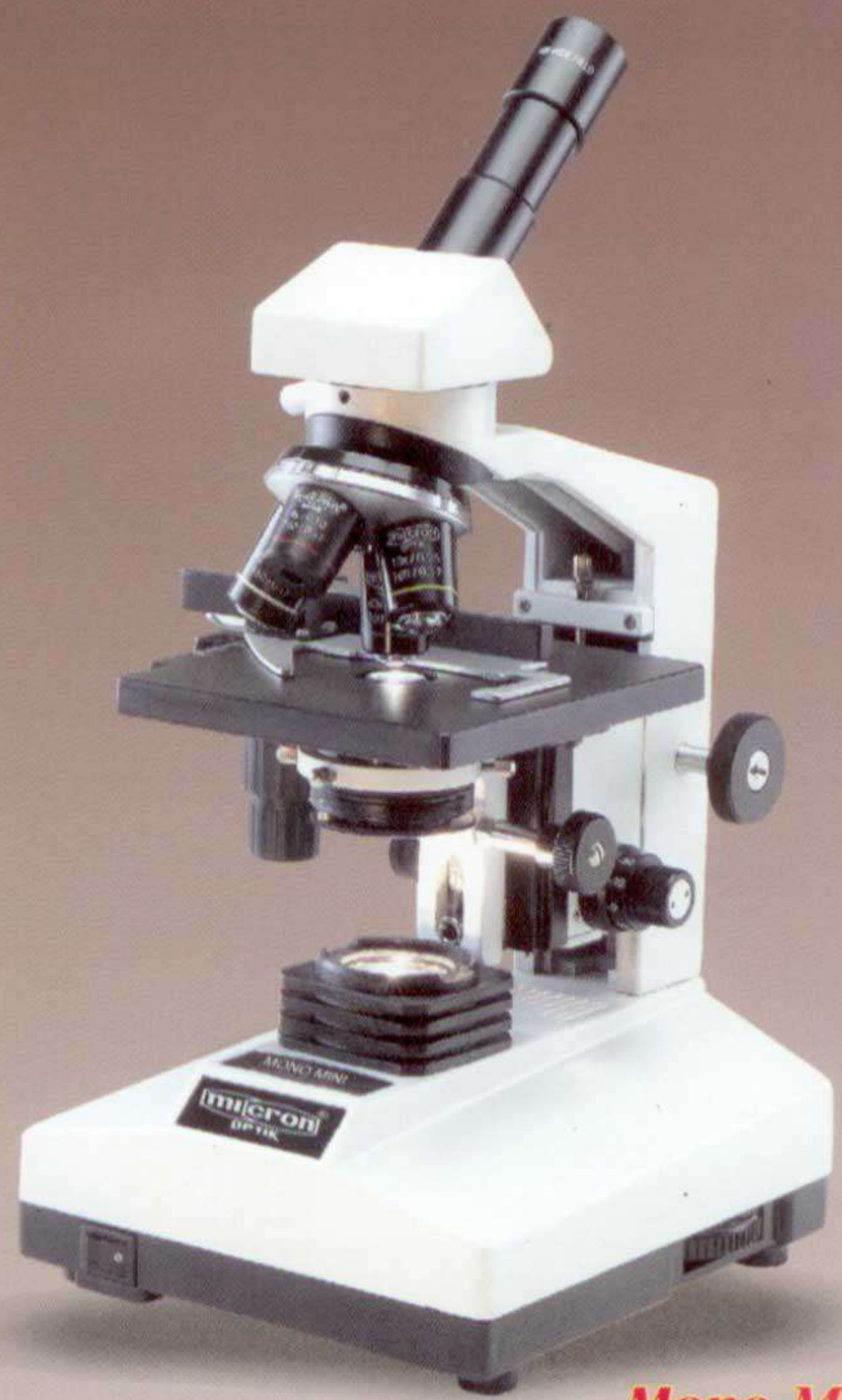
Micron **KG-6 Series** educational microscope is a range of advanced student use microscope, with full built-in and optional features and excellent optical quality at a very affordable price.



Bino Mini

Micron KG-6 series of educational microscope ideal for advanced students. Excellent optics at a very affordable price. Every effort has been made to ensure that the user will be able to use microscope fully with all the built in and optional accessores.

Technical Specifications	
Viewing Tubes	BINO MINI Binocular head 45°inclined MONO MINI Monocular head 45°inclined
Nose Piece	Quadruple Ball bearng Nose Piece.
Mechanical Stage	Low Drive Coaxial control, stage 120mm x 140mm, x & y Movement of 55mm & 75mm.
Focussing System	Seprate Coarse & Fine Focussing Adjustiment. Least Count .002mm. (Fine movement on Ball bearing Guideways).
Condensor	Abbe Condensor N.A. 1.25 with Iris Diaphragm movable on Rack & Pinion.
Illumination	6Volts-20Watt Halogen Lamp (In-Built).
Objectives	4x, 10x, 40x S/L & 100x Oil (P.D: 37mm)
Eye Piece	Wide Field 10X (Paired).
Accessories	Day Light Reflector, Dust Cover,
Packing.	Duly packed in Styrofom Box or Wooden cabinet (Optional).
OPTIONAL ACCESSORIES	
Objectives Eye Pieces	5X. 20X, 60X H5X, H10X, H15X



Mono Mini

Two yearwarranty: All Micron Optik Instruments are warranted against defect in materials and workmansip for two years. Damage resulted from repair by unauthorized parties or damage due to accident, alteration, misuse or abuse is not covered. Warranty service is provided by Micron or its authorised dealer. Defective Micron Instruments covered by the warranty will be repaired free of charge when thay are returned, post paid to Micron or its authorised dealer in your region.

Design Change: The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress without notice and without obligation.

MICROSCOPES

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IS: 4381
IS:8275

Auth. Distribotor:

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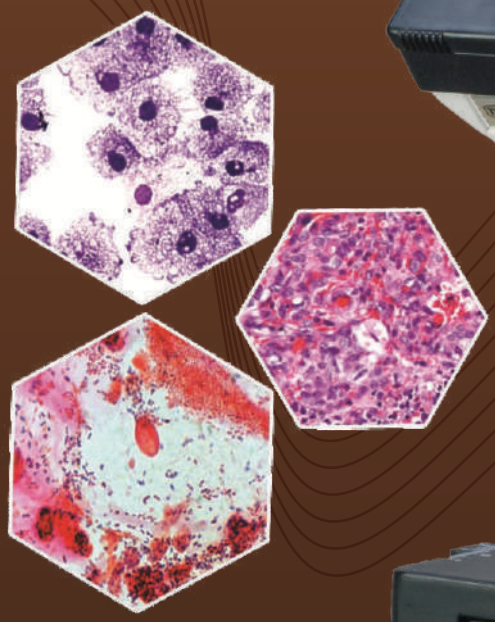
EXEL ECONOMY BINOCULAR MICROSCOPE



MODEL : BI-KG-7A

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BI-KG-7A Exel Economy

Micron Pathological Binocular Microscope Model **BI-KG-7A** Exel Economy is the newly introduced design for Medical Colleges, Professionals & Laboratory use with the full features of the advanced research type Pathological Microscope. It has a very modern look & yet at a very affordable price that will surprise the most demanding users.

Standard Objectives: DIN

All the objectives are percentered and parfocal to minimise focusing procedures.

Objective	Numerical Aperture	Working Distance
Achromatic 4X	0.10	36.14 mm
Achromatic 10x	0.20	7.14 mm
Achromatic 40x (Spring)	0.65	0.57 mm
Achromatic 40xOil (Spring)	1.25	0.20 mm

Features:

1. Mechanical tube length 160 mm.
2. 45° inclined with 360 degree rotatable binocular head.
3. Co-axial built in Mechanical stage with fine vernier graduation, designed with convenient coaxial adjustment for jerk free smooth slide manipulation through 50 x 75 mm.
4. Dust proof quadruple/ quintuple ball bearing revolving nose piece with positive click stops.
5. Co-axial coarse & fine focusing adjustment knobs on ball bearing 'guide ways. Fine motion, graduated to .002 mm.
6. Substage Abbe type N.A. 1.25 condenser focusable with rack & pinion, continuously variable iris diaphragm with built in swing out filter holder,
7. Staple Grey, chemical resistant, back-on finish.
8. Exclusive preset focus lock prevents damage to valuable slide and objectives.
9. Heavy rectangular sturdy base, with built-in illumination 3w Led or 6w-20w halogen lamp (optional)
10. Complete parts of the microscope are pressure Die-casted.
11. With dust cover packed in styrofoam packing.

Component	Specifications
Observation Tube	45° inclined Binocular Head
Eye Piece	W.F. 10 X / 18 mm (pair)
Nose Piece	Quadruple / Quintuple
Built-in Illumination	LED 3W or 6W - 20W Halogen Lamp (Optional)
Reflector	Plano Concave Mirror 50 mm
OPTIONAL ACCESSORIES	
Eye Piece	Huygenian 5 x, 10 x & 15 x
Dark Field Condenser, Phase Contrast Equipment	

(All Optics and prisms are anti-reflection bloomed coated for extra bright image and ling life perfomance)

Two Year Warranty: All Micron Optic instruments are warranted against defects in materials and workmanship for two years. damage resulted from repair by unauthorized parties damage due to accident, alteration, misuse or abuse is not covered. Warranty service is provided by Manufacturer or its authorized dealer. Defective Micron Optic instruments covered by warranty will be repaired free of charge when they are returned, postpaid to Micron Instrument Industries. Or its authorized dealer in your region

Design Change: The manufacturer reserve the right to make changes in instrument design in accordance with scientific and mechanical progress, without oblogation.

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BMC-220 SERIES

EXTENDS TOP QUALITY OPTICS
AND UNCOMPROMISING PERFORMANCE
FOR EDUCATIONAL & ROUTINE RESEARCH WORK

SENIOR RESEARCH BIOLOGICAL MICROSCOPE

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BMC-220 Series

Micron BMC-220 is the newly introduced series of educational Microscope which extend top quality optics and uncompromising performance for educational and routine research work.

DIN Standard Objectives:

All the objectives are percentered and parfocal to minimise focusing procedures.

TECHNICAL SPECIFICATIONS	
Viewing Tubes	45º Inclined Monocular Head
	45º Inclined Binocular Head
	45º Inclined Trinocular Head
	30º Inclined Binocular Siedentopf Head
	30º Inclined Trinocular Siedentopf Head
Nose Piece	Quadruple/Quituple Ball Bearing Nose Piece
Mechanical Stage	Low Drive Co-Axial Mechanical Stage, 140x140mm, X&Y movement of 55x75mm
Focussing System	Co-Axial Coarse and Fine Focussing Adjustment Knobs on Ball Bearing Guide Ways. Fine Motion Graduated to 0.002mm
Condensor	Sub Stage Abbe Type N.A 1.25 condenser focusable with rack and pinion. Built in Swing Out Filter Holder
Illumination	3W LED or 6V 20W Halogen Bulb (Optional)
Objectives	XS Plan Achromat 4x (N.A 0.10) XS Plan Achromat 10x (N.A 0.20) XS Plan Achromat 40x (S/L) (N.A 0.65) XS Plan Achromat 100x Oil (N.A 1.25)
Eye Piece	Wide Field 10x/18mm (Pair)
	Styrofoam Packing or Wooden Cabinet (Optional)
Accessories	Dust Cover (Provided)
Optional Accessories	Battery Back up, Dark Field Condenser, Phase Contrast, CMOS Cameras, Image Analysis Softwares

(All Optics and prisms are anti-reflection bloomed coated for extra bright image and ling life perfomance)

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HSA
STUDENT MICROSCOPE

The HSA is based on a compact design and is extremely reliable in mechanical and optical performance. A wide variety of standard and optional accessories enhance the characteristics features of the HSA. The sphere of its application have been sufficiently extended to meet various requirements at high schools, colleges and universities.

Body	:	Monocular die-cast body inclinable upto a horizontal position (90°)
Magnification	:	100 X ~ 600 X
Stage	:	Plain square stage of 100 X 100 mm, with two clips, mechanical stage (Optional)
Nosepiece	:	Triple hole nosepiece with positive click stops for precise and smooth alignment of objectives
Focusing	:	By coarse and fine focusing knobs
Eyepieces	:	Huygenian 10X & 15X
Objectives	:	Hard anti-reflection coated, colour coded Parfocal Achromat: 10X & 40X
Condenser	:	Built-in Sub-stage condenser with iris diaphragm
Illumination	:	Plano-concave mirror in adjustable fork mount
Finish	:	Textured grey

Multi-Layer Vacuum Coating Plant

Features:

- Exclusive Anti-Fungus Treated Optics with multi-layer coatings for high performance bright image.
- Parfocal & Pre-Centered optics

Magnüs

MAGNUS ANALYTICS

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Magnüs

Monocular Microscopes for Education & Clinical Applications

MAGNUS

The MAGNUS range of Microscopes were created for the International market keeping in mind the quality of Microscopes required by students, laboratory technicians and doctors the world over. Manufactured in conformity with stringent International standards the "MAGNUS" Microscopes are manufactured in a TUV-certified ISO 9001:2008 facility with a manufacturing environment wherein every critical operation is done under the watchful eyes of highly trained & experienced engineers & technicians.

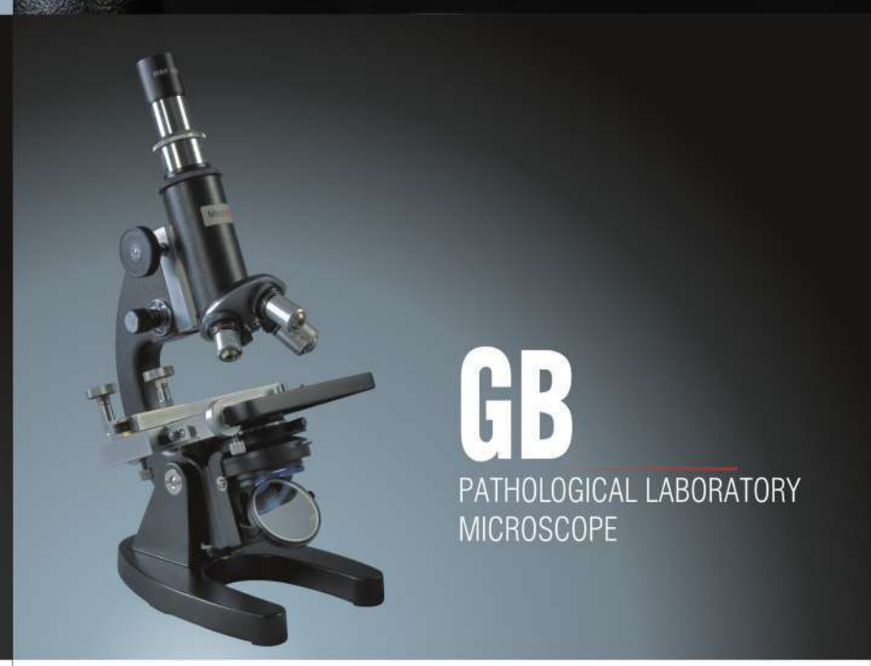
With a 100 per cent Quality Inspection system at MAGNUS microscopes – we guarantee excellent mechanical features coupled with high resolution optics to allow long hours of strain – free observation. MAGNUS combines high precision optical technology with uncompromising international quality standards.

At MAGNUS, we believe that quality needs to be supplemented with customer orientation, we constantly adapt to our customer needs and desires, whether it is in the form of new models or constant endeavors to make our microscopes more user friendly.

HB
LABORATORY MICROSCOPE

This compact and reliable microscope incorporates some of the most effective of International optical techniques. The precise and practical design of this instrument has resulted in considerable extension of its applications in laboratories, universities and hospitals.

Body	:	Monocular, die cast body, inclinable upto a horizontal position (90°)
Magnification	:	Attachable 100 X ~ 1000 X (1500 X)
Stage	:	Graduated Mechanical stage 120 X 125 mm with convenient adjustment for manipulation of slides
Nosepiece	:	Quadruple nosepiece with positive click stops for precise and smooth alignment of objectives
Focusing	:	By coarse and fine focusing knobs
Eyepiece	:	Widefield Eyepiece (NWF 10X)
Objectives	:	Hard anti-reflection coated, colour coded Parfocal Achromat: 10X, 40X & 100X (spring loaded, oil immersion)
Condenser	:	Sub-stage Abbe condenser of 1.25 N.A. focusable with rack and pinion; fitted with an iris diaphragm and filter holder (for blue filter) to facilitate optimum adjustment of light
Illumination	:	Plano-concave mirror in adjustable fork mount
Finish	:	Black durable acid resistant epoxy-coated finish
Optional	:	Eyepieces widefield 15X & Huygenian 5X, 10X &15X



GB
PATHOLOGICAL LABORATORY MICROSCOPE

This is a standard laboratory microscope which eliminates the operational complexities of conventional instruments, with features such as a graduated draw tube. The GB thus meets all the requirements of advanced microscopy.

Body	:	Monocular die cast body, with graduated draw tube, inclinable upto a horizontal position (90°)
Magnification	:	Attachable 100 X ~ 1000 X (1500 X)
Stage	:	Graduated Mechanical stage 120 X 125 mm with convenient adjustment for manipulation of slide
Nosepiece	:	Quadruple nosepiece with positive click stops for precise and smooth alignment of objectives
Focusing	:	By coarse and fine focusing knobs
Eyepiece	:	Widefield Eyepiece (NWF 10X)
Objectives	:	Hard anti-reflection coated, colour coded parfocal Achromat: 10X, 40X & 100X (spring loaded, oil immersion)
Condenser	:	Sub-stage Abbe condenser of 1.25 N.A. focusable with rack and pinion; fitted with an iris diaphragm and filter holder (for blue filter) to facilities optimum adjustment of light
Illumination	:	Plano-concave mirror on adjustable fork mount
Finish	:	Black durable acid resistant epoxy-coated finish
Optional	:	Eyepieces Widefiled 15X, Huygenian 5X, 10X & 15X

Find us on

Magnüs

Eyepoint height adjustment

Built-in security slot

Rackless stage

Locking pin for easy binocular rotation

Theia-i

MICROSCOPE MASTERCLASS

- Plan infinity optics
- Parfocal and centerd optics
- Optics with multi-layer coating
- Choice of halogen, led illumination & battery backup
- Easy access for lamp replacement from front
- Now also available with single layer rackless stage
- Additional accessories : Dual attachment, Pentahead attachment, Darkfield attachment, Phase contrast attachment

Optional Accessories

LED Based Reflected Fluorescence Attachment

Trinocular Head With USB Digital Camera

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SPECIFICATIONS

Magnus Inclined Biological Microscope Model **Theia-i**

Item	Specifications	Theia-i Binocular Version	Theia-i-Tr Trinocular Version
Body	Aluminium die- cast body with all critical movements based on ball bearing and wire guides thereby ensuring smooth and precise manipuation	✓	✓
Mechanical Stage	Co-axial low drive rackless mechanical stage (125 mm x 145 mm) (+/-5 mm) with traverse area of 76 mm x 30 mm (+/-5 mm). Single specimen holder	✓	✓
Focusing System	Co-axial coarse and fine controls with a focus adjustment and fine adjustment knobs. Coarse focus range 20mm. Fine focus rotation 0.2mm	✓	✓
Condenser Holder	Rack and pinion mounted condenser holder	✓	✓
Condenser	Centerable abbe condenser with aperture iris diaphragm (N.A. 1.25) focusable with rack & opinion and a continously variable iris diaphragm with a removable blue filter for day light observation	✓	✓
Illumination Base With Option	(a) Built-in illumination base with pre-centered 6V 20W halogen light source coupled with an efficient collector lens system. Universal power supply 100V-230V AC 50Hz single phase	Theia-i	Theia-i-Tr
	(b) 3W LED light soure high brightness, longlife (30,000hrs)	Theia-i LED	Theia-i-Tr LED
	(c) 3W LED light soure (with battery back-up) high brightness, longlife (30,000hrs). Battery back-up in-built NiMH rechargeable batteries	Theia-i Freedom	Theia-i-Tr Freedom
Nose Piece	Quadruple revolving inward nosepiee based on precision ball-bearing mechanism with positive click stop. Quintupule nosepiece also available	✓	✓
Objectives	Plan Achromat Objectives — N.A. 4x — 0.10 10x — 0.25 40x (spring loaded) — 0.65 100x (oil, spring loaded) — 1.25 Infinity corrected plan optics Uniformly centered, interchangeable & parfocal Anti-fungus treated Tropicalized anti fungus treatment ensures image excellence for long periods in conditions favouring to fungus growth.	✓	✓
Inclined Observation Head	Binocular head (30 degree inclined seidentopf), 360 degree rotatable, diopter & eyepoint adjustment with two working heights at minimum 370 & 430mm. Interpupillary distance 48-75mm	✓	
	Trinocular head (30 degree inclined seidentopf), 360 degree rotatable, diopter & eyepoint adjustment with two working heights at minimum 370 & 430mm. Interpupillary distance 48-75mm		✓
	Facility of locking mechanism to prevent observation tube from falling off	✓	✓
Eyepiece (wide field) for Observation	WH 10x (FN 20mm) paired eyepiece. The unique optical design provides relief from eye fatigue and renders wide-field images of utmost clarity. Compatible with optionally available eyepiece micrometer	✓	✓

- Packed in a corrugated box, with operational manual, dust cover, power cord, immersion oil (5ml) & anti-theft security lock
- The reflector mirror, spare bulb & wooden cabinet are optionally available

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OLYMPUS®

Your Vision, Our Future

Culture Microscope

CKX53

CKX3 Series

The Cell Culture Laboratory Solution

NEW


OLYMPUS
CKX53

Improved Imaging and Usability Facilitates Cell Cultivation

With improved image quality and easy handling, the Olympus CKX53 delivers stable performance and a more efficient cell culture process for a variety of cell culture needs including live cell observation, cell sampling and handling, image capture, and fluorescence observation.

Live Cell Observation

Acquire clear, reproducible, and high contrast images with a wide visual field, made possible by the CKX53's long-life LED and iPC system. Additionally, the newly developed inversion contrast (IVC) technique provides clear three-dimensional views.

Cell Sampling and Handling

CKX53 offers easier and more efficient cell sampling and handling in a clean bench environment, because of its small size and lightweight design. The user-oriented design and simple operation of the holder and manual stage maximize performance and usability.

Image Capture

Equipped with a standardized camera port, the CKX53 can be optionally paired with an Olympus camera, allowing users to quickly obtain clear images in brightfield illumination, phase contrast, newly developed inversion contrast, and fluorescence imaging modes.

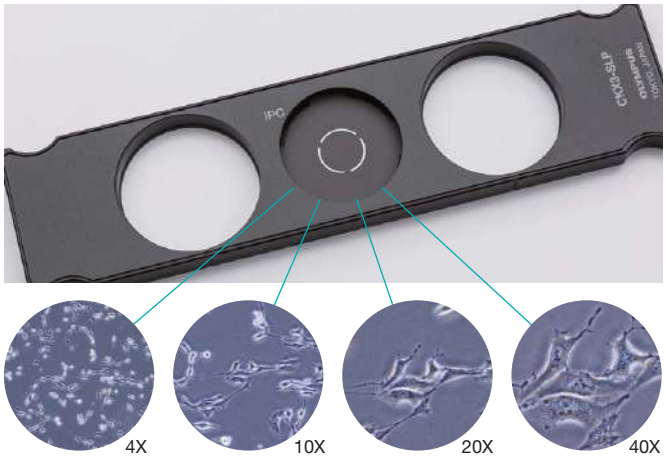
Fluorescence Observation

During fluorescence observation with the CKX53, a wide range of fluorescence dyes can be used by changing the mirror unit. With the increased filtering ability of the fluorescence mirror units, high contrast fluorescence images with a high S/N ratio can be reliably obtained even when fluorescence is relatively weak. Additionally, with the aid of the CKX53's 100W mercury lamp, clear and bright fluorescence observation is enabled.

Live Cell Observations

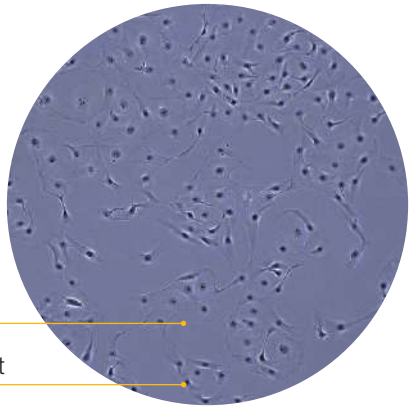
Fast and Efficient Cell Observation with the integrated Phase Contrast (iPC) System

The high contrast achieved by the CKX53 iPC system quickly provides a clear view without needing to change the ring slit from the 4X to 40X objective. Performing simplified and efficient cell observation, for faster cell culture operations is made possible.



Clear View Empowered by Long-Life LED Light Illumination

Lasting longer than halogen bulbs, the energy-saving LED light source of the CKX53 delivers reliable color reproducibility as well as a uniform and clear image over the whole visual field with a field number (FN) of 22. The energy-saving performance of CKX53 guarantees a clear and stable view.



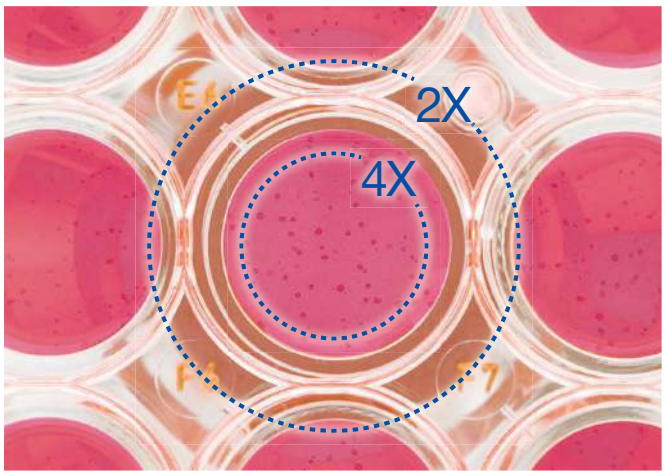
Clear view over the whole visual field

Phase contrast observation with high contrast

Wide and Clear View with the 2X Objective

The ring slit for the PLN2X objective, CKX-SLPAS, has a 22 mm field of view of 11 mm diameter. As a result, observation using the objective is perfect for efficient screening of the desired cells, allowing a faster cell culture process. Additionally, the 2X objective provides noticeably higher contrast, allowing even transparent objects in the sample to be clearly identified.

CKX3-SLPAS



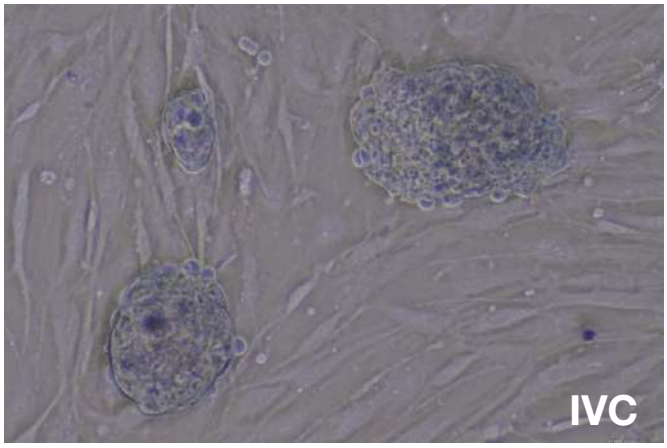
When viewing a 96-well plate, the wide visual field allows all the cells in a well to be observed without moving the stage.

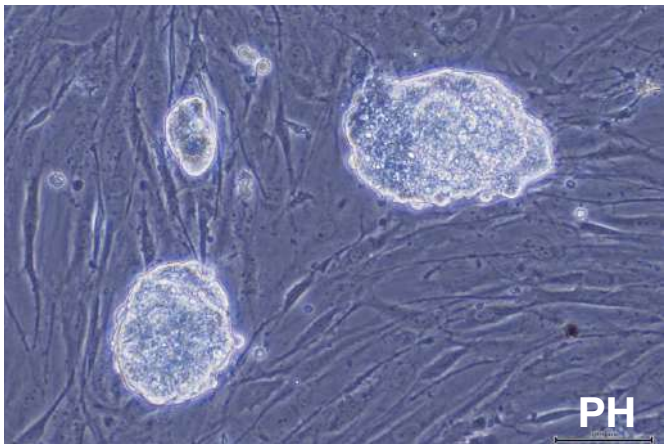
Experience 3D Views Driven by the “Inversion Contrast” (IVC) Technique

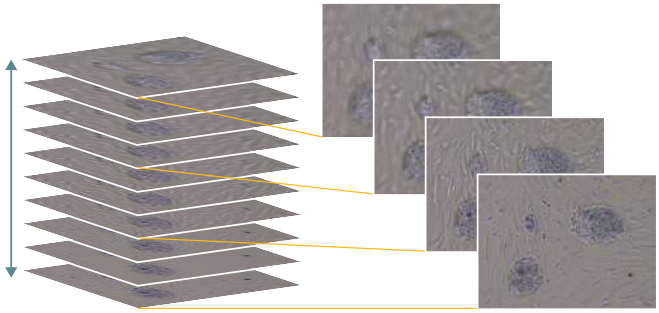
With the use of this newly-developed IVC technique in CKX53, where the depth of field is narrower than that of the phase contrast, clear three-dimensional images can be obtained for objects of any shape, even transparent ones. In addition, IVC observation provides clear views without halos or directional shadows, preserving the integrity of object details during observation.

*10X objectives (PLCN10X, CACHN10XIPC) are lined up for this new IVC observation.

CKX3-SLPIC







Reference: Y. Suzuki et al., Method for observing phase objects without halos or directional shadows. Opt Lett. 2015; 40(5): 812-5

User-Oriented Design for Efficient Cell Sampling and Handling

Smooth Cell Observations in Sterile Conditions

With the hood kept down, CKX53 fits perfectly in a clean bench environment, allowing cell handling under completely sterile conditions. With its UV-resistant coating, CKX53 can also be left in the clean bench during the UV light sterilization process. Compared with previous CKX models, CKX53 weighs approximately 7kg and has a smaller base footprint. It can easily be moved with just one hand, using the neck of the observation tube for lifting as well as the sliding pad at the base of the microscope.

Easy Cell Sampling in a Clean Bench Environment

The shorter distance between the view point and the optical axis/focus knob on CKX53 offers natural hand positioning and makes focusing and cell sampling easier. Additionally, with full LED lighting available from the moment CKX53 is turned on, operation is less of a burden to the user, and cell sampling and handling can be finished in a shorter period of time.

Ergonomic Advantages for Easy and Smooth Operation

Whether observing in a standing or seated position, the 45-degree optical access and the placement of the butterfly-shaped observation tube against the stage allows for ergonomic cell observation. Sterile work can be quickly started and finished, allowing cells to be returned to the incubator in a shorter time.
Additionally, the power switch is placed directly under the observation tube located along the stage. The operating components such as the power switch and the knob for switching the light path are placed close together to enhance the operability of the CKX53.

Easy Handling of Any Type of Cell Culture Containers

Using the universal holder with the CKX53, it is possible to easily view cells that were cultured in a variety of containers, such as dishes, microplates, and flasks. Also, when the optional holder is attached, a maximum of three 35 mm dishes can be accommodated on the stage.

Microplates can be handled without a holder, and the well "address" of the microplate can be identified quickly using the grid for each well position on the CKX3-MVR manual stage. When viewing a 96-well plate, each 90-degree rotation of the stage knob moves the well position one at a time, allowing intuitive handling of the microplate during observation.

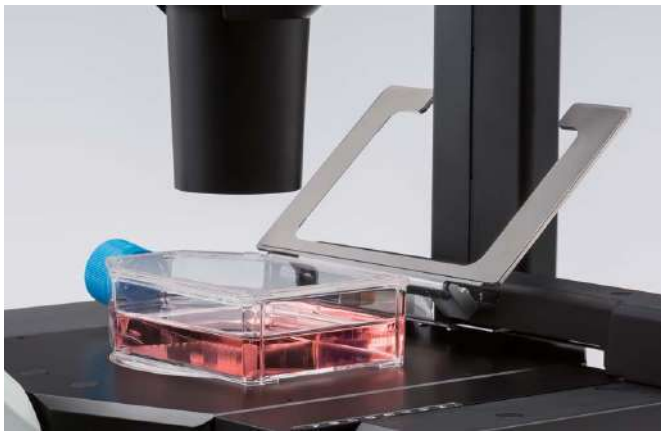



More Comprehensive Observation for a Multi-Layer Tissue Flask

Due to the width of CKX53, when the condenser is detached it is possible to view containers such as multi-layer tissue flasks up to 190 mm in height. In addition the objectives can be lifted up to 19 mm, allowing cell observation of the bottom two layers of a multi-layer tissue flask in combination with the UPLFLN4XIPC objective.

Flexibility of Using Different Containers

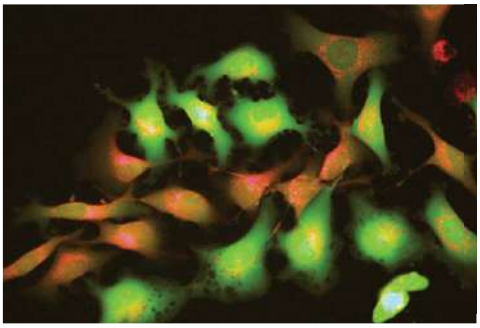
The arm of the holders can easily be lifted up for manual positioning of the culture containers. Additionally, the stage can be expanded up to 70 mm to the left and right for greater handling flexibility.



Fluorescence Observation

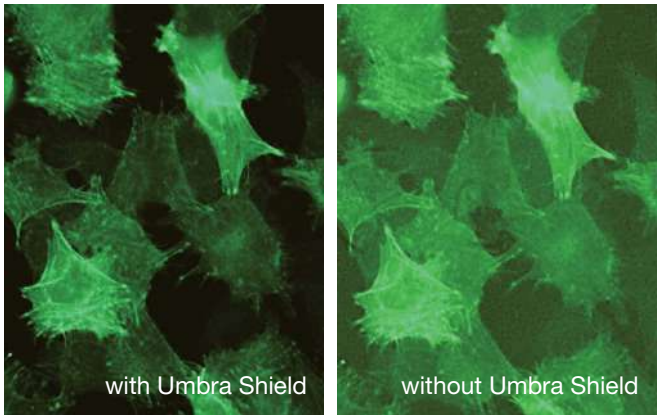
Clear Views with a Wide Range of Fluorescence Dyes

With the CKX53 standard fluorescence set, even weak fluorescence signal can be viewed clearly with the aid of the integrated 100W mercury lamp (U-LH100HG). The same type of mirror unit as those of IX3 and BX3 can be set at three slots of the mirror unit slider. Also, the same quality of performance in fluorescence observation as top of the line inverted microscopes can be obtained for wide range of fluorescence dyes according to the user's needs. Compared to previous CKX models, the increased filtering ability of the fluorescence mirror units produces images at higher contrast.



High Contrast under Bright Conditions

The “Umbra Shield” is designed specifically for CKX53 fluorescence observation. It efficiently blocks out room light, enhances the contrast of fluorescence, and enables clear fluorescence observation even under bright conditions. When using phase contrast, the Umbra Shield can be lifted up to pass light through to the sample.



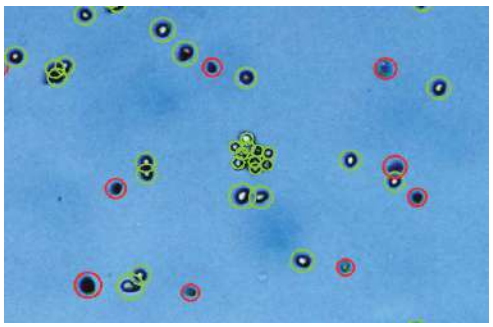
Optional Products on Cell Culture Process

Instantly Ready for Clear Image Capturing

The CKX53 comes standard with a camera port. When used with the DP22, its software has a function called "Cell Culture mode" that can capture the appropriate color for cell culture samples, so the CKX53 instantly captures clear high quality images. For further versatility, other cameras with C-type lens mounts can also be used with the CKX53.

Efficient Cell Culture Flow Possible with Cell Counter model R1

To accelerate the cell culture process, the cell counter offers easy and smooth operation when concomitantly used with CKX53 for quick live imaging and accurate cell count of cultured cells. Efficient flow of cell observation and counting can be accomplished with this Olympus lineup for cell culture.



○:Live cells ○:Dead cells

DP22 and Cell Counter model R1 are for research use only.

CKX53 Configuration

Four Upgradeable Base Configurations

Brightfield

This package features brightfield objectives (4X and 10X) and is suitable for observing stained samples e.g. protoplasts, other plant, plankton or similar specimen.

Phase Contrast Entry

This package features phase contrast objectives (4X, 10X, and 20X) and is suitable for observing the condition and activity of transparent live cells.

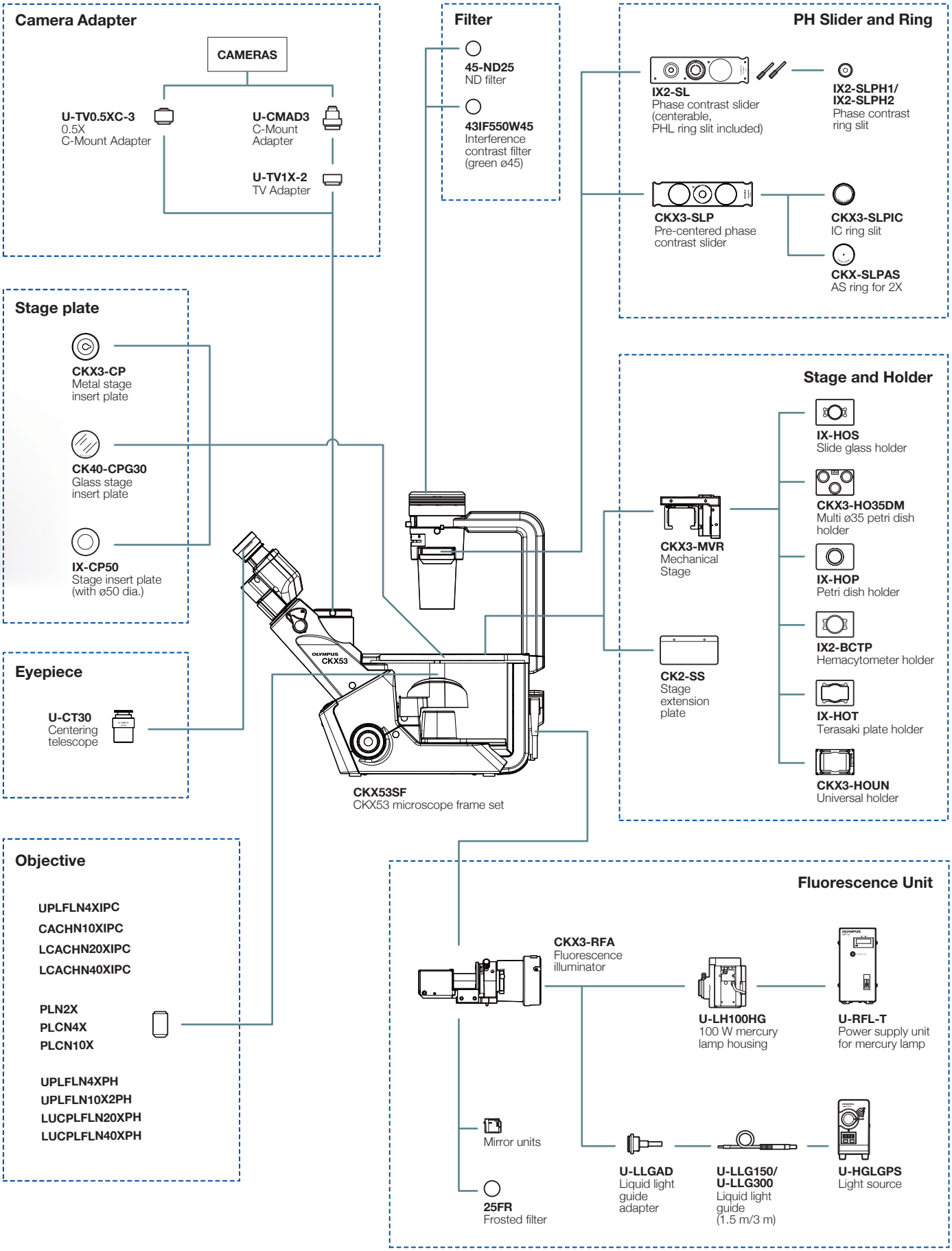
Phase Contrast Standard

This package features phase contrast objectives (4X, 10X, 20X, and 40X) and the manual stage (CKX3-MVR). It is suitable not only for observing the condition and activity of transparent live cells, but also for observing detailed structures within the cells.

Fluorescence

This package is suitable for checking fluorescence. It features a mercury lamp housing (U-LH100HG) and fluorescent illuminator, as well as phase contrast objectives (4X, 10X, 20X, and 40X) and the manual stage (CKX3-MVR).

CKX53 System Diagram



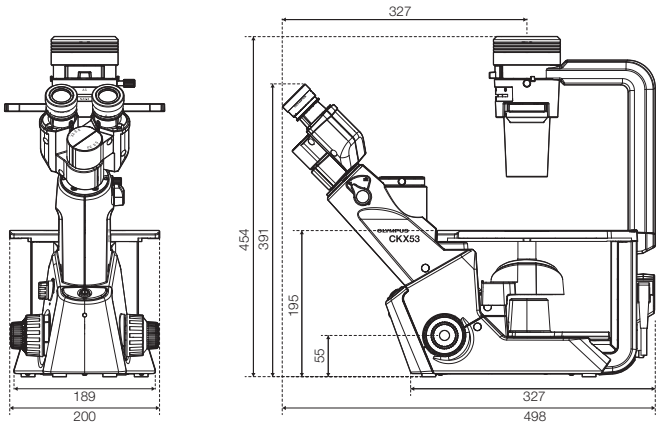
SPECIFICATIONS

Item		CKX53			
Set model		Brightfield	Phase Contrast Entry	Phase Contrast Standard	Fluorescence
Optical system		UIS2 (Universal Infinity-corrected) optical system			
Focus		Revolving nosepiece vertical movement system using the coarse and fine focusing knobs. Stroke: 20mm (Focal point: up to 18.5 mm from the plain stage top surface) Stroke per rotation : 36.8mm (Coarse), 0.2mm (Fine)			
Stage	Plain stage	200 mm (L) X 252 mm (W) Exchangeable transparent insert plate is incorporated			
	Mechanical stage	Options		XY coaxial knob place on right side of the plain stage Microplate holder equipped with the escape function stage stroke: X = 110 mm, Y = 74 mm	
	Substage			70 mm (L) X 180 mm (W)	
Illumination system	Light source	4000K color temperature LED light source			
	Filter holder	Insert up to 6mm think with ø45mm filter, detachable			
	Aperture diaphragm	Diaphragm blade, manual open/close system			
	Slider insertion	Options	With phase slider pocket and built-in slider position click stop mechanism pre-centered iPC aperture in 4X, 10X, 20X and 40X insertion direction can be adjusted by the range of ±30 degrees to right or left sides		
iPC slider		Options	Pre-centered phase contrast aperture for 4X, 10X, 20X and 40X and 2 ø45mm empty apertures		
Condenser		Maximum numerical aperture: 0.3 Working distance: 72mm Applicable objective magnification 2X, 4X, 10X, 20X and 40X up to 190mm height tissue flask can be loaded on the stage without detachable condenser			
Observation tube		Fixed Trinocular tube, inclined 45 degrees Interpupillary distance 48-75mm Light path: eyepiece/camera port = 100/0 ⇔ 0/100			
Camera port		Olympus camera adapter interface			
Eyepiece		Magnification: 10X FN 22			
Fluorescence illuminator		Options			Detachable illuminator 3CH Switchable slide
	FL light source				100W Hg
	FL light shutter				Available
	FL field stop				Available
	FL mirror units				2 mirror units (B & G) and UIS2 mirror unit (option)
	Umbra shield				Umbra shield is available to prevent from room light
Rated Voltage/ Electric Current		AC 100-240V 50/60 Hz 0.4A			
Power Consumption		Less than 4W			

UIS2 OBJECTIVES

Objective	NA	W.D.	Remarks
PLN2X	0.06	5.8	
PLCN4X	0.1	18.5	
PLCN10X	0.25	10.6	
UPLFLN4XIPC	0.13	16.4	For use with CKX3-SLP
CACHN10XIPC	0.25	8.8	For use with CKX3-SLP
LCACHN20XIPC	0.4	3.2	For use with CKX3-SLP
LCACHN40XIPC	0.55	2.2	For use with CKX3-SLP
UPLFLN4XPH	0.13	16.4	PHL (For use with IX2-SL)
UPLFLN10X2PH	0.3	10	PH1 (For use with IX2-SL)
LUCPLFLN20XPH	0.45	6.6-7.8	PH1 (For use with IX2-SL)
LUCPLFLN40XPH	0.6	3-4.2	PH2 (For use with IX2-SL)

DIMENSIONS



(Unit: mm)

- OLYMPUS CORPORATION is ISO14001 certified.
- OLYMPUS CORPORATION is ISO9001 certified.
- OLYMPUS CORPORATION is ISO13485 certified.
- **Illumination devices for microscope have suggested lifetimes. Periodic inspections are required. Please visit our website for details.**

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Magnüs

Theia-fi

MICROSCOPE MASTERCLASS

- Parfocal and centered SP achromatic optics
- Choice of halogen, led illumination & battery backup
- Now available in plan optics also
- Optics with multi-layer coating
- Easy access for lamp replacement from front

Optional Accessories

Phase Contrast Attachment

Darkfield Attachment

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SPECIFICATIONS

Magnus Inclined Biological Microscope Model **Theia-fi**

Item	Specifications	Theia-fi Binocular (SP)	Theia-fi Trinocular (SP)
Optical System	Semi-Plan (SP) Optics	✓	✓
Body	Aluminium Die- cast body based on ball bearing and wire guides thereby ensuring smooth and precise manipuation	✓	✓
Inclined Observation Head	Binocular 45 degree inclined, 360 degrees rotatable	✓	
	Trinocular Head 45 degree inclined, 360 degrees rotatable		✓
Eyepiece (widefield) For Observation	HWF 10x (FN 18mm) paired eyepiece. The unique optical design of the compensating eyepiece provides relief from eye fatigue and renders color-compensated wide-field images of utmost clarity	✓	✓
Nosepiece	Quadruple revolving nosepiece based on precision ball-bearing mechanism with positive click stop	✓	✓
Objectives	Achromat Objectives — N.A. 4x — 0.10 10x — 0.25 40x (spring loaded) — 0.65 100x (oil, spring loaded) — 1.25 Uniformly centered, interchangeable & parfocal Anti-fungus treated Tropicalized anti fungus treatment ensures image excellence for long periods in conditions favouring to fungus growth	✓	✓
Mechanical Stage	Co-axial low drive mechanical stage (125mm x 145mm) (+/-5mm) with traverse area of 30mm x 76mm (+/-5mm) with single slide holder	✓	✓
Condenser Holder	Rack and pinion mounted condenser holder	✓	✓
Condenser	Pre-centered abbe condenser with aperture iris diaphragm (N.A. 1.25) focusable with rack & pinion through 10mm and a continously variable iris diaphragm with a removable blue filter for daylight observation	✓	✓
Focusing System	Co-axial coarse and fine controls with a focus adjustment and fine adjustment knobs. Coarse focus range 20mm. Fine focus rotation 0.2mm	✓	✓
Illumination Base With Option	(a) Built in illumination base with pre-centered 6V 20W halogen light source coupled with an efficient collector lens system. Universal power supply 100V-230V AC 50Hz single phase (SMPS)	✓	✓
	(b) Built in illumination base with pre-centered 6V 20W halogen light source coupled with an efficient collector lens system. Power supply 230V AC 50Hz	✓	✓
	(c) 3W LED light soure high brightness, longlife (30,000 hrs)	Theia-fi LED (SP)	Theia-fi LED (SP)
	(d) 3W LED light soure High brightness, longlife (30,000 hrs). Battery back-up in built NiMH Rechargeable batteries	Theia-fi Freedom (SP)	Theia-fi Freedom (SP)

- Packed in a corrugated box, with operational manual, dust cover, power card & immersion oil (5ml)
- The reflector mirror, spare bulb & wooden cabinet are optionally available

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micron® OPTIK

LABORATORY & MEDICAL MONOCULAR MICROSCOPE

MODEL : KG-5

LABORATORY & MEDICAL MICROSCOPE

MODEL : KG -5

This Compact Reliable Microscope incorporates some of the most effective of Micron Optical Techniques. The Accurate and practical design of this instrument has resulted in a greately enlarged extension of its applications in laboratories, universities and hospitals.

Model: KG-5*i*

STANDARD FEATURES:

1. Sturdy and well balanced monocular body, inclinable to horizontal level at 90 degree.
2. Mechanical tube length 160± 1 mm.
3. Fixed square stage 120mm x 120mm, with detachable or built in graduated mechanical stage.
4. Dust proof triple revolving nose piece with positive click stage.
5. Focussing by coarse and fine adjustment with graduated scale.
6. Substage Abbe type N.A 1.25 condenser with iris diaphragm and swing out filter holder focusable by Rack & pinon.
7. Illuminated by plano concave mirror in fork mount.
8. Steple Gray. Chemical resistant back on finish.
9. With dust cover packed in styrofoam case or in Plywood cabinet (optional).
10. Complete parts of the microscope are pressure Die-casted.

OPTICAL COMBINATION:

EYE PIECE	OBJECTIVES	MAGNIFICATION
5x & 10x & 15x (Huygenian) any Two	x10, x40S/L & x100 Oil S/L (Achromatic)	x50 – x1500

OPTIONAL ACCESSORIES:

1. Illumination by sub stage pin type lamp 3W LED working on replaceable cells with intensity control.
2. Objective : x4. x20, x45 S/L, x60 S/L.
3. Eye Pcs. : W.F. 10x
4. Rotatable at 360^0, inclined at 45^0 Monocular Tube (Model: KG-5*i*)

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Biological
Microscope

CH20*i*

Key Features

- Anti fungus optics
- Optics with multi-layer coating
- Easily interchangeable objectives
- Choice of halogen and LED illumination
- Main operating controls within easy reach
- Optimization of illumination with aspheric lenses
- Available in binocular and trinocular version

Optional Accessories

Phase Contrast Attachment

Trinocular Head With USB Digital Camera

www.magnusopto.com

SPECIFICATIONS

Magnus Biological Microscope Model **CH20i**

Item	Specifications	CH20i Binocular Version	CH20i Trinocular Version
Body	Aluminium die- cast body with all critical movements based on ball bearing and wire guides thereby ensuring smooth and precise manipuation	✓	✓
Mechanical Stage	Co-axial low drive mechanical stage (120mm x 132mm) (+/-5mm) with traverse area of 25mm x 76mm (+/-5mm)	✓	✓
Focusing System	Co-axial coarse and fine controls with a focus adjustment and fine adjustment knobs. Coarse focus range 20mm. Fine focus rotation 0.25mm	✓	✓
Condenser Holder	Rack and pinion mounted condenser holder	✓	✓
Condenser	Abbe condenser with aperture iris diaphragm (N.A. 1.25) focusable with rack & opinion and a continously variable iris diaphragm with a removable blue filter for day light observation	✓	✓
Illumination Base With Option	(a) Built-in illumination base with pre-centered 6V 20W halogen light source coupled with an efficient collector lens system. Universal power supply 100V-230V AC 50Hz single phase	Halogen Version	Halogen Version
	(b) 3W LED light soure high brightness, longlife (30,000hrs)	LED Version	LED Version
Nose Piece	Quadruple revolving nosepiece based on precision ball-bearing mechanism with positive click stop.	✓	✓
Objectives	iNEA achromat 4x (anti-fungus) iNEA achromat 10x (anti-fungus) iNEA achromat 40x (anti-fungus) iNEA achromat 100x (anti-fungus) spring, oil	✓	✓
Inclined Observation Head	Binocular observation tube (inclination 45°, interpupillary distance adjustment range 53-75 mm), diopter adjustment on the left	✓	
	Trinocular observation tube (inclination 45°), diopter adjustment on the left		✓
Eyepiece (wide field) for Observation	iCWHK 10X (LB eyepiece 10X), F.N.18mm, (anti-fungus) (x2)	✓	✓

ACCESSORIES

✓ Phase contrast attachment 10x, 40x	✓ Koehler attachment
✓ Camera attachment	✓ 15x eyepiece (anti-fungus)
✓ Binocular and Trinocular versions	

Magnus

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All standard sets are supplied as per specifications which are subject to change without any obligation on the part of the manufacturer.
Optics are anti-fungus treated & with multi-layer coatings. Accessories shown may not be part of standard equipment.

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UIS2
World-leading optics

Clinical Microscope

MX21*i*

Key Features

- Ergonomic & compact design for user convenience
- Anti-fungus treatment for component durability
- High eyepoint design eyepiece (F.N. 20)
- SMPS circuit for constant voltage output
- Rackless stage for durability and ease of use
- Component security - student proof
- Choice of halogen and LED illumination

Optional Accessories

Dual EpiLED Attachment

Trinocular Head With USB Digital Camera

www.magnuopto.com

SPECIFICATIONS

Magnus Clinical Microscope Model **MX21*i***

Item	Specifications	MX21*i* Binocular Version	MX21*i* Trinocular Version
Body	Aluminium die- cast body with all critical movements based on ball bearing and wire guides thereby ensuring smooth and precise manipuation	✓	✓
Mechanical Stage	Co-axial low drive mechanical stagewith wire movement (120mm x 132mm) (+/-5mm) with traverse area of 30mm x 76mm (+/-5mm) with single slide holder	✓	✓
Focusing System	Co-axial coarse and fine controls with a focus adjustment and fine adjustment knobs. Coarse focus range 20mm. Fine focus rotation 0.25mm	✓	✓
Condenser Holder	Rack and pinion mounted condenser holder	✓	✓
Condenser	Abbe condenser with aperture iris diaphragm (N.A. 1.25) focusable with rack & pinion and a continously variable iris diaphragm	✓	✓
Illumination Base With Option	(a) Built-in illumination base with pre-centered 6V 20W halogen light source coupled with an efficient collector lens system. Universal power supply 100V-230V AC 50Hz single phase	Halogen Version	Halogen Version
	(b) 3W LED light soure high brightness, longlife (30,000hrs)	LED Version	LED Version
Nose Piece	Quadruple revolving nosepiee based on precision ball-bearing mechanism with positive click stop	✓	✓
Objectives	Plan Achromat Objectives / N.A. / W.D 4x / 0.10 / 18.5mm 10x / 0.25 / 10.6mm 40x (spring loaded) / 0.65 / 0.6mm 100x (oil, spring loaded) / 1.25 / 0.13mm	✓	✓
Inclined Observation Head	Binocular head (30 degree inclined siedentopf), 360 degree rotatable, diopter adjustment	✓	
	Trinocular head (30 degree inclined siedentopf), 360 degree rotatable, diopter adjustment		✓
Eyepiece (wide field) for Observation	WH 10x (FN 20mm) paired eyepiece. The unique optical design provides relief from eye fatigue and renders wide-field images of utmost clarity. Compatible with optionally available eyepiece micrometer	✓	✓

ACCESSORIES

✓ Camera attachment	✓ LED fluorescence attachment
✓ Simple polarizing attachment	✓ Darkfield attachment (dry or oil)
✓ Phase contrast attachment	✓ 15x eyepiece (F.N. 14, anti-fungus)
✓ Koehler attachment	✓ Binocular and Trinocular versions

Magnus

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Optics are anti-fungus treated & with multi-layer coatings. Accessories shown may not be part of standard equipment.

Micron offers *Cxl* series fulfills all features of a Modern microscopes with latest techniques, Economical Design,fulfills the complete features of a Biological Microscopes with Three models i.e. MONO *Cxl* , BINO *Cxl* & TRINO *Cxl*

Technical Specifications		
Viewing Tubes	BINO *Cxl*	Binocular head 45° inclined
	MONO *Cxl*	Monocular head 45° inclined
	TRINO *Cxl*	Monocular head 45° inclined
Nose Piece	Quadruple Ball bearing Nose piece.	
Mechanical Stag	Low Drive Co-axial control, having X & Y movement of 55 mm & 75 mm.	
Focussing Syster	Co-axial Coarse & Fine focussing with focussing lock.	
Condensor	Abbe Condensor N.A. 1.25, with iris dia-phragm movable on Rack & Pinion.	
Illumination	LED 3watt with intensity control, input 220V. Battery backup (optional) or 6V-20W, halogen bulb (on demand)	
Objective (Ach)	4x, 10x, 40x S/L & 100x Oil (P.D.:37MM)	
Eye Piece	Wide Field 10x	
Accessories	Dust Cover, Halogen Lamp	
Packing	Duly Packed in Styrofom Box	

MONO *Cxl*

The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress without notice and without obligation. All Micron Optik Instruments are warranted against defect in materials and workmanship for one year .

MICROSCOPES

Mark

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Micron KG-6 series of educational microscope ideal for advanced students. Excellent optics at a very affordable price. Every effort has been made to ensure that the user will be able to use microscope fully with all the built in and optional accessores.

Technical Specifications	
Viewing Tubes	BINO MINI Binocular head 45°inclined MONO MINI Monocular head 45°inclined
Nose Piece	Quadruple Ball bearng Nose Piece.
Mechanical Stage	Low Drive Coaxial control, stage 120mm x 140mm, x & y Movement of 55mm & 75mm.
Focussing System	Seprate Coarse & Fine Focussing Adjustiment. Least Count .002mm. (Fine movement on Ball bearing Guideways).
Condensor	Abbe Condensor N.A. 1.25 with Iris Diaphragm movable on Rack & Pinion.
Illumination	6Volts-20Watt Halogen Lamp (In-Built).
Objectives	4x, 10x, 40x S/L & 100x Oil (P.D: 37mm)
Eye Piece	Wide Field 10X (Paired).
Accessories	Day Light Reflector, Dust Cover,
Packing.	Duly packed in Styrofom Box or Wooden cabinet (Optional).
OPTIONAL ACCESSORIES	
Objectives Eye Pieces	5X. 20X, 60X H5X, H10X, H15X

Mono Mini

Two yearwarranty: All Micron Optik Instruments are warranted against defect in materials and workmansip for two years. Damage resulted from repair by unauthorized parties or damage due to accident, alteration, misuse or abuse is not covered. Warranty service is provided by Micron or its authorised dealer. Defective Micron Instruments covered by the warranty will be repaired free of charge when thay are returned, post paid to Micron or its authorised dealer in your region.

Design Change: The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress without notice and without obligation.

MICROSCOPES

AN ISO 9001:2000 Company

IS: 4381
IS:8275

Auth. Distribotor:

MagMaster

HM/SM 100

All metal rugged Stand with individual Coarse & Fine Focus drive with focus stop, Maintainence Free ECO LED illumination including Battery backup with regulating intensity control for 220V/50Hz, Achromatic Condenser 0.65/0.90NA with aperture iris diaphragm, stage plate with clips or two plate mechanical stage, Quadruple revolving nosepiece, Achromatic objectives 4x, 10x, 40x(spring) and 100x(Spring) for SM 100, 360° rotatable 45° inclined Monocular head with Widefield Eyepiece 10x/18 lockable, anti-mould optics for fungus protection.

MagStar

EM 200/210

All metal rugged Stand with Coaxial Coarse & Fine Focus drive with focus stop, Fixed Koehler 6V 20W halogen/LED illumination with regulating intensity control for 220V/50Hz, movable Condenser drive, Abbe Condenser 0.9/1.25 NA with aperture iris diaphragm, Double layer Mechanical stage 132 mm X 140 mm with Coaxial X/Y drive including double slide holder, Paracentric Quadruple precision ball bearing nosepiece, Semi-Plan (SP) Achromatic objectives 4x, 10x, 40x (spring) & 100x (spring, oil immersion), 360° rotatable 45° inclined Monocular head with Widefield Eyepiece 10x/18 lockable, anti-mould optics for fungus protection.

OLYMPUS

Your Vision, Our Future

Biological Microscope

CX43/CX33

CX3 Series

Comfortable, High-Throughput Routine Microscopy

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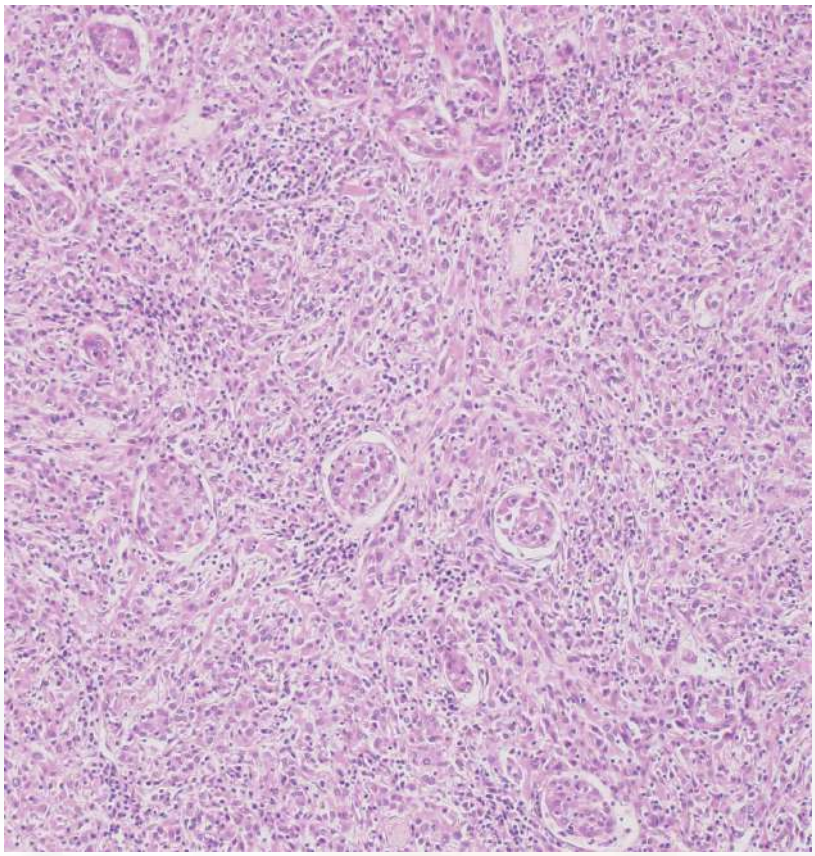
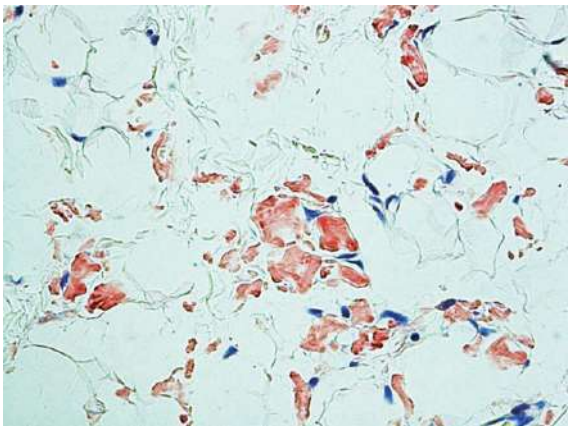
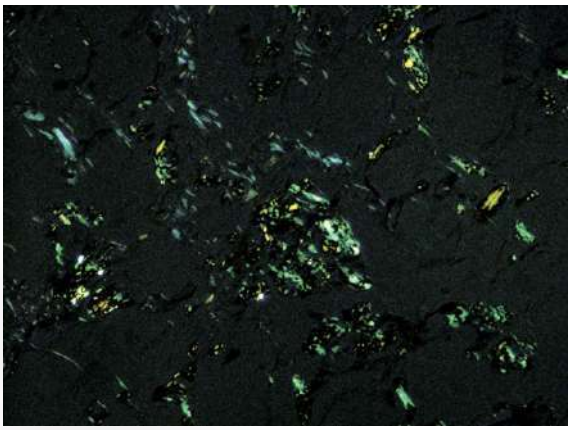
World-leading optics

Comfortable for Long Periods of Routine Microscopy

The CX33 and CX43 microscopes enable users to remain comfortable during routine microscopy. The microscope frame well fit the hands and the location of the control knobs maximize ergonomics to improve work efficiency. Users can quickly set a specimen with one hand, while adjusting the focus and operating the stage with the other hand with minimal movement. Both microscopes also feature a camera port for digital imaging.







CX43

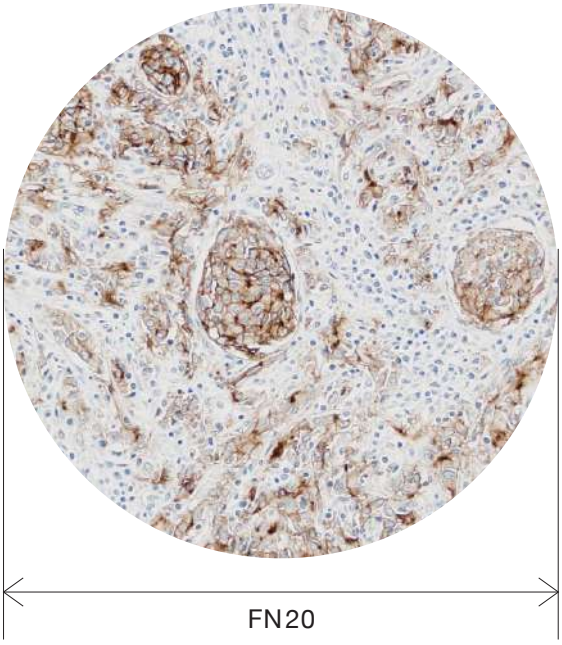
Maintain Preferred Observation Conditions with Minimal Adjustments

Uniform Illumination with Consistent Color Temperature

The color temperature of the CX LED illumination produces daylight conditions, so specimens can be viewed with their natural colors. The color temperature is consistent at any brightness, so users don't have to spend time making adjustments when they change brightness. The LEDs have a long 60,000-hour lifetime in the design value, helping reduce cost, and the brightness level remains stable throughout the LED's life.

Excellent Optical Performance for Flat Images

The microscope employs Plan Achromat objectives, which provide clear images with high image flatness over a wide field of view. This helps users view specimens clearly and evenly during routine microscope observations.



Select and Set Your Contrast Level

Users can preserve their favorite contrast by locking the aperture diaphragm. It stays fixed at the optimally chosen position if it is accidentally touched while changing slides.

Change Magnification without Adjusting the Condenser

Users can change the magnification from 4X to 100X without moving the top lens on the condenser. 2X magnification is also available by simply setting the objective and the condenser turret to 2X position.

Simple Fluorescence Observation

Fluorescence observation is simple and easy. Plug the compact fluorescent illuminator into the microscope frame for fluorescence observation. Its LED light source is pre-centered, and the transmitted illumination is shuttered by simply setting the condenser turret to the FL position. This reduces background noise in the fluorescence image from incidental light coming from the top lens of the condenser.

Remain Comfortable during Extended Usage

Single-Handed Sample Placement

A specimen can be quickly slid in and out using one hand. The specimen holder opens a little and firmly retains the specimen during operation. The versatile holder accommodates a variety of slide types, including a hemocytometer.

Smooth Magnification Change

The low-positioned revolving nosepiece enables users to quickly change magnifications with minimal arm movement between focusing, greatly improving work efficiency during prolonged use.

Use Up to Five Objectives

For added flexibility, up to five objectives can be supported by the revolving nosepiece. In addition to general objectives, users can select a 2X objective for wide area observation or objectives for phase contrast. These objectives with long working distances help keep specimens from getting damaged.

Ergonomically-Positioned Focus Knob

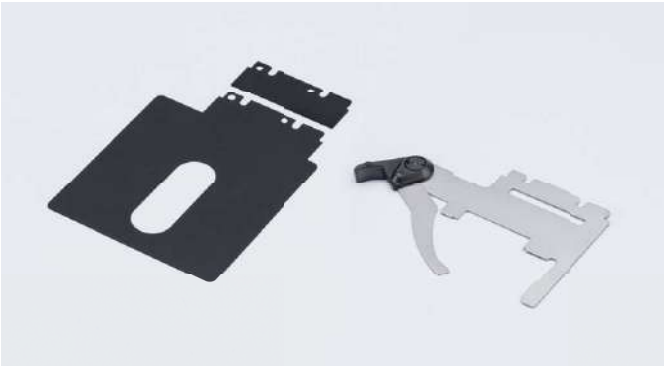
The low-positioned focusing knob enables users to make observations while keeping their hands and forearms rested on the desk, helping provide comfort. The focusing stopper prevents a specimen from accidentally hitting an objective when working under high magnification.

Ergonomic Stage and Eyepiece Position

The low-positioned stage is designed to enhance comfort and reduce fatigue. The stage surface can be widely seen from the eye point position, which enables users to smoothly set and check specimens on the stage. The stage knob can be controlled with just a light touch and can be adjusted at the same time as the focusing knob, since they are located close together.

Specimen Holders that Match Your Observation Style

Stage accessories improve efficiency when users need to observe a large number of specimens. With the specimen holder sheet, a specimen can be freely operated by a finger on the sheet and can be precisely adjusted using the stage knob. The double specimen holder can retain a large specimen or two specimens.



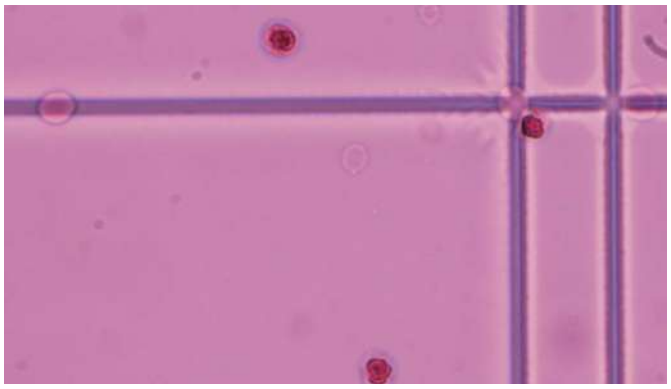
Simplified Fluorescence Observation

Fluorescence observation can be easily set up on the standard configuration while keeping the eye point the same as other observation methods. Simply plug the compact fluorescent illuminator into the back of the microscope frame.

Versatile Applications

The universal condenser offers a variety of observation methods and future upgradability. In combination with the five-position revolving nosepiece, multiple applications can be covered using the single microscope frame.

Brightfield

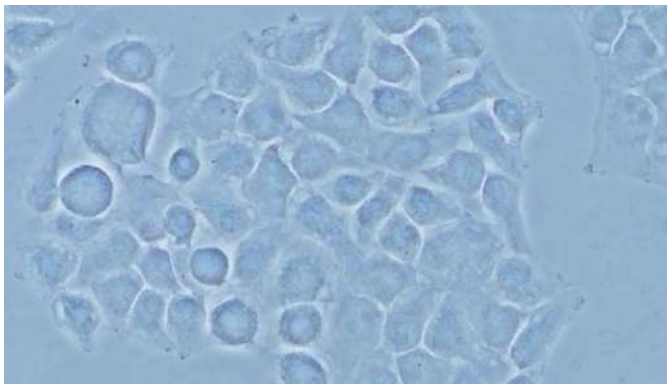


Leukocyte (minimum iris aperture)

Brightfield

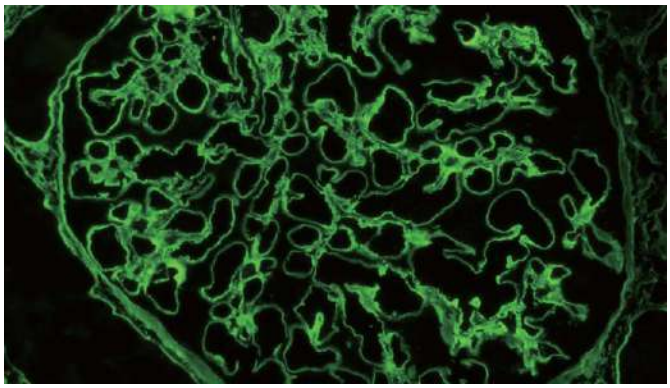
Urinary Cast (minimum iris aperture)

Phase Contrast



HeLa cells

Fluorescence



Renal Glomerulus

Accessories

Simple polarizing intermediate attachment/CX3-KPA

Offers polarized observation of urate crystals and amyloid in combination with a polarizer and analyzer.

Eyepoint adjuster/ U-EPA2

Raise the eyepoint position by 30 mm for added comfort.

Arrow pointer/ U-APT

Insert an LED arrow into your image; great for digital imaging and presentations.

Dual observation attachment/U-DO3

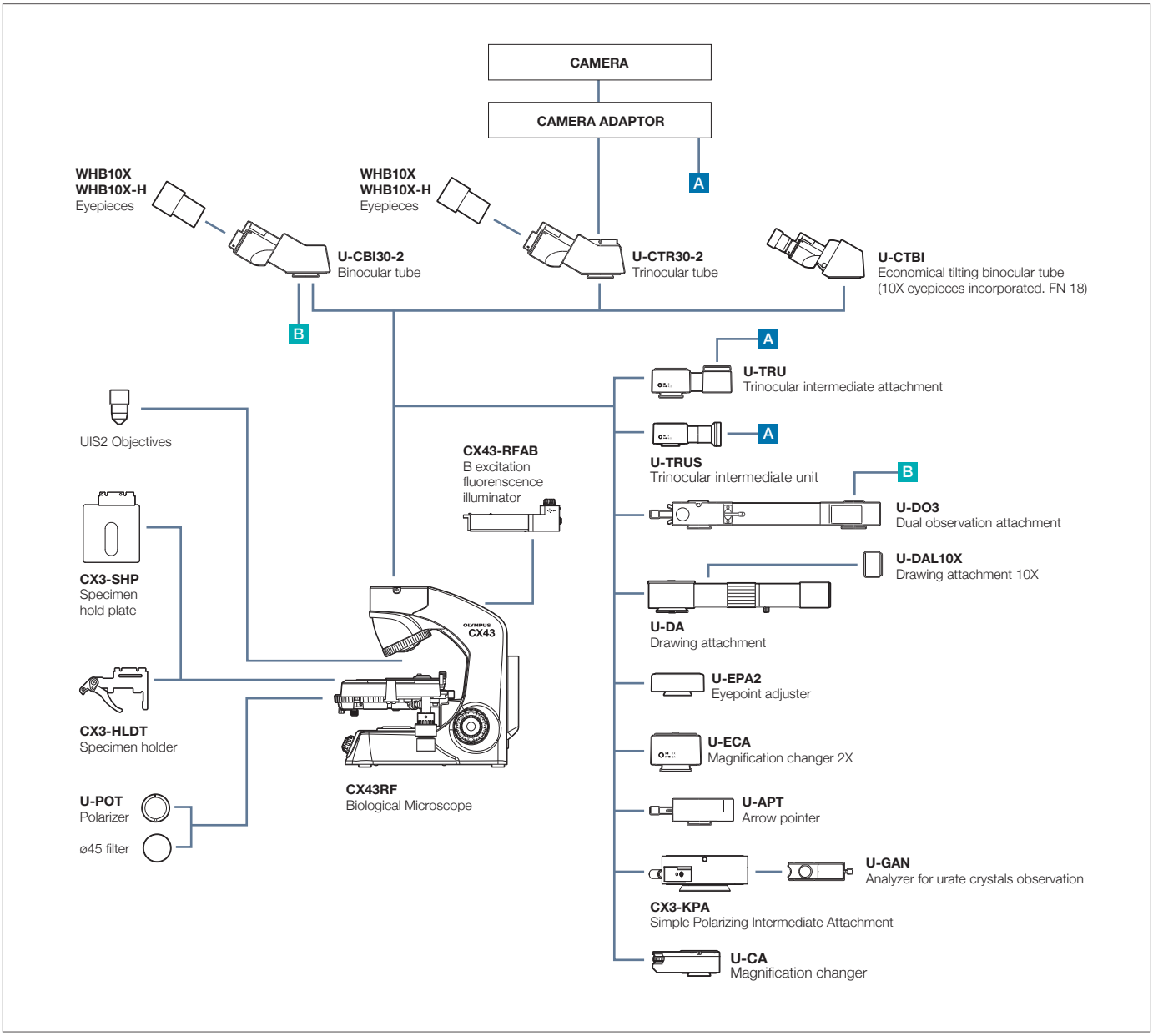
Enables dual, simultaneous observation of a single specimen from the same direction with equal magnification and brightness for both operators. A pointer can be used to indicate specific sections of the specimen to simplify the training process and enhance discussion.

CX33 Microscope

For less demanding requirements using only brightfield and darkfield, the CX33 microscope is a great option. The low-positioned nosepiece and stage, focusing lock, specimen holder, and inward quadruple revolving nosepiece make the CX33 microscope is well-suited for everyday observations in one easy configuration.

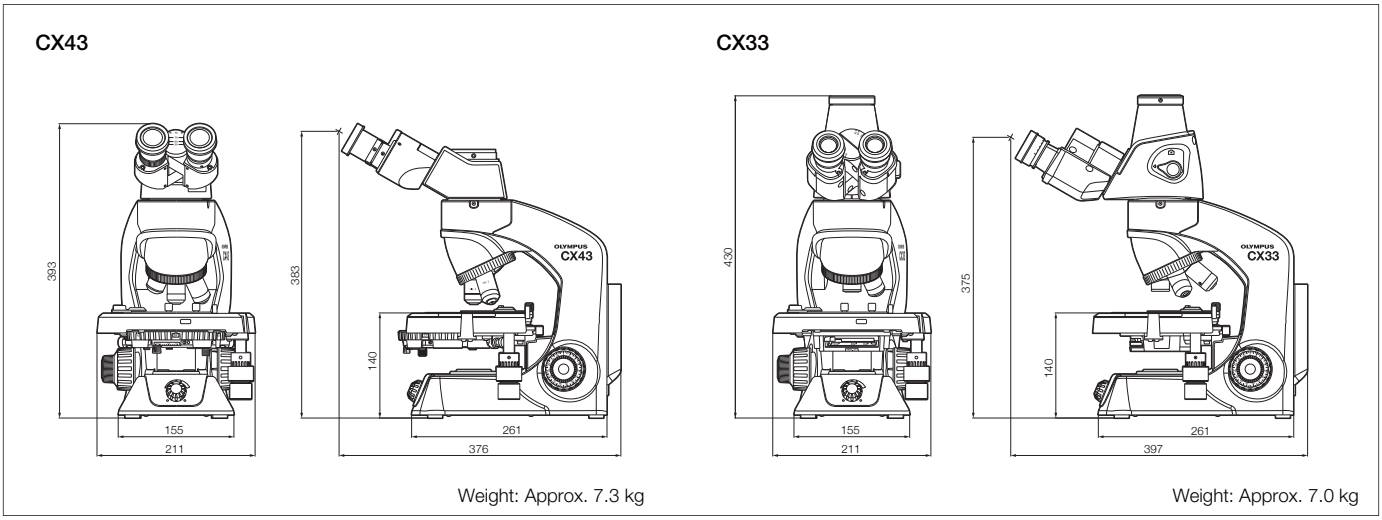
CX33

CX43 System



Dimensions

(Unit: mm)



Weight: Approx. 7.3 kg

Weight: Approx. 7.0 kg

CX43 Specifications

Optical System		UIS2 (universal infinity-corrected) optical system		
Illumination System		· Built-in transmited illumination system · Köhler illumination (fixed field diaphragm) · LED power consumption 2.4 W (nominal value), precentered		
Focusing		· Stage height movement (coarse movement stroke: 15 mm) · Stroke per rotation for coarse adjustment knob: 36.8 mm, Focusing stopper · Torque adjustment for coarse adjustment knob · Fine focus knob (minimum adjutsment gradations: 2.5 µm)		
Revolving Nosepiece		Fixed quintuple nosepiece with inward tilt		
Stage		· Wire movement mechanical fixed stage, (W × D): 211 mm × 154 mm · Traveling range (X × Y): 76 mm × 52 mm · Single specimen holder (optional: double specimen holder, sheet holder) · Specimen position scale · Stage XY movement stopper		
Observation Tube	Type (anti-fungal)	Binocular	Trinocular	Tilting binocular
	Eyepiece (anti-fungal)	10X Field Number (FN): 20	10X Field Number (FN): 20	10X Field Number (FN): 18
	Tube Inclination	30°	30°	30°–60°
	Light Path Selector	None	None (eyepiece/camera port = 50/50 fixed)	None
	Interpupillary Distance Adjusting Range	48–75 mm		
Condenser		· Abbe condenser NA 1.25 with oil immersion · Universal condenser with 7 turret positions: BF (4–100X), 2X, DF, Ph1, Ph2, Ph3, FL · Condenser turret lock pin (BF only) · Built-in aperture iris diaphragm · AS lock pin		
Observation Methods		Brightfield, simple polarization, fluorescence, phase contrast, darkfield		
Objectives		Plan achromat (UIS2), anti-fungal 2X NA 0.06 W.D. 5.8 mm 4X NA 0.1 W.D. 18.5 mm 10X NA 0.25 W.D. 10.6 mm 10XPH NA 0.25 W.D. 10.6 mm 20X NA 0.4 W.D. 1.2 mm 20XPH NA 0.4 W.D. 1.2 mm 40X NA 0.65 W.D. 0.6 mm 40XPH NA 0.65 W.D. 0.6 mm 60X NA 0.8 W.D. 0.2 mm 100XO NA 1.25 W.D. 0.13 mm 100XOPH NA 1.25 W.D. 0.15 mm 100XOI NA 1.25–0.6 W.D. 0.13 mm		
Fluorescence Light Source		Easily add an LED reflected fluorescence illuminator (peak excitation wavelength 470 nm: B excitation only), precentered		
Rated Voltage/Electric Current		AC 100–240 V 50/60 Hz 0.4 A		

CX33 Specifications

Optical System	Infinity optical system
Illumination System	· Built-in transmited illumination system · Köhler illumination (fixed field diaphragm) · LED power consumption 2.4 W (nominal value), precentered
Focusing	· Stage height movement (coarse movement stroke: 15 mm) · Stroke per rotation for coarse adjustment knob: 36.8 mm, Focusing stopper · Torque adjustment for coarse adjustment knob · Fine focus knob (minimum adjutsment gradations: 2.5 µm)
Revolving Nosepiece	Fixed quadruple nosepiece with inward tilt
Stage	· Wire movement mechanical fixed stage, (W × D): 211 mm × 154 mm · Traveling range (X × Y): 76 mm × 52 mm · Single specimen holder (optional: double specimen holder, sheet holder) · Specimen position scale · Stage XY movement stopper
Observation Tube	· 30° inclined trinocular tube (anti-fungal) · Light path selector: eyepiece/camera port = 100/0 or 0/100 · Interpupillary distance adjusting range: 48–75 mm · Eyepoint adjustment: 375.0–427.9 mm
Eyepieces (anti-fungal)	· 10X Field Number (FN): 20 · 15X Field Number (FN): 16 (optional)
Condenser	· Abbe condenser NA 1.25 with oil immersion · Built-in aperture iris diaphragm
Observation Methods	Brightfield, darkfield
Objectives	Plan achromat, anti-fungal 4X NA 0.1 W.D. 27.8 mm 10X NA 0.25 W.D. 8.0 mm 20X NA 0.4 W.D. 2.5 mm (optional) 40X NA 0.65 W.D. 0.6 mm 100X NA 1.25 W.D. 0.13 mm (optional)
Rated Voltage/Electric Current	AC 100–240 V 50/60 Hz 0.4 A

- **OLYMPUS CORPORATION is ISO14001 certified.**
- **OLYMPUS CORPORATION is ISO9001 certified.**
- **OLYMPUS CORPORATION is ISO13485 certified.**

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Printed in Japan N8600645-032017

OLYMPUS

Your Vision, Our Future

Biological Microscope

CX43/CX33

CX3 Series

Comfortable, High-Throughput Routine Microscopy

NEW

UIS2
World-leading optics

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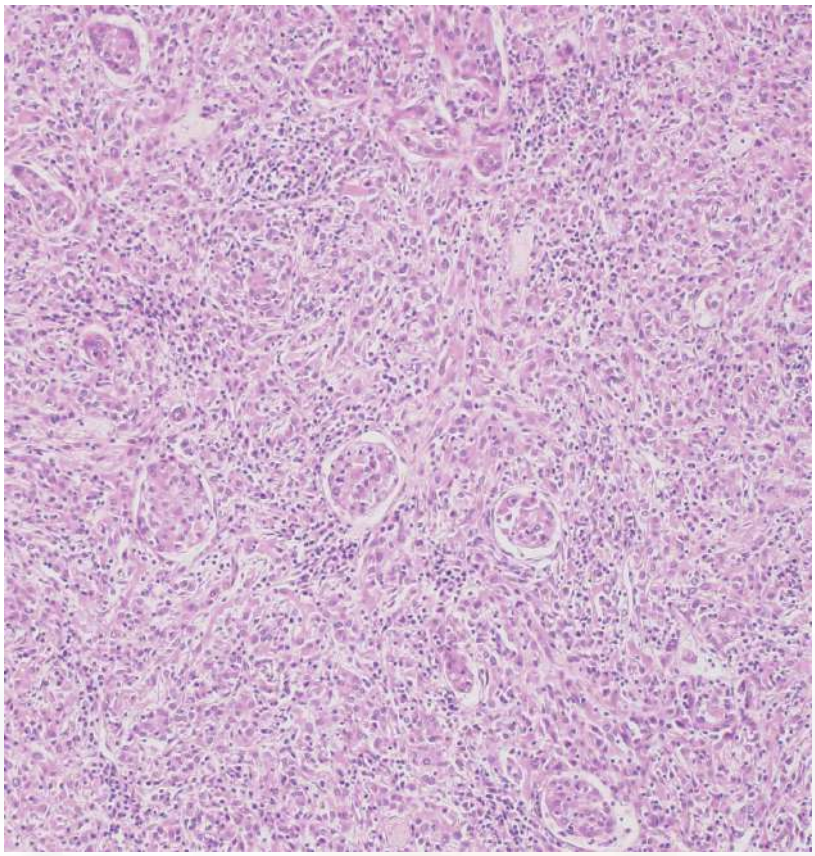

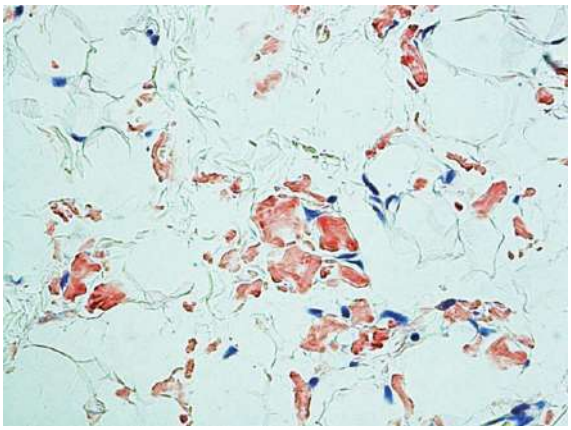

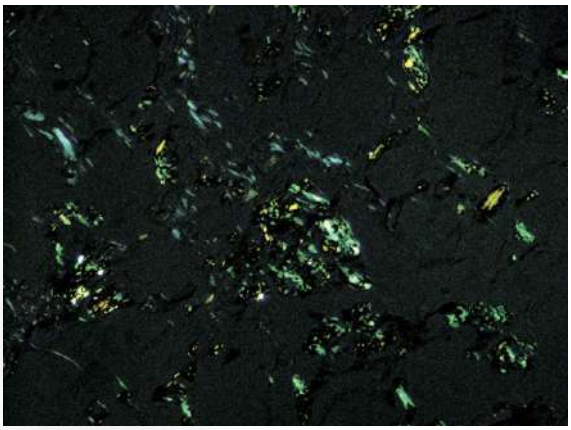

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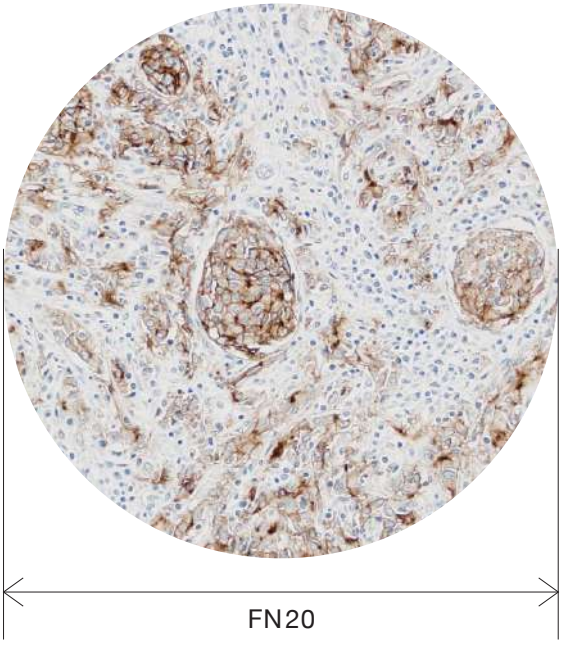

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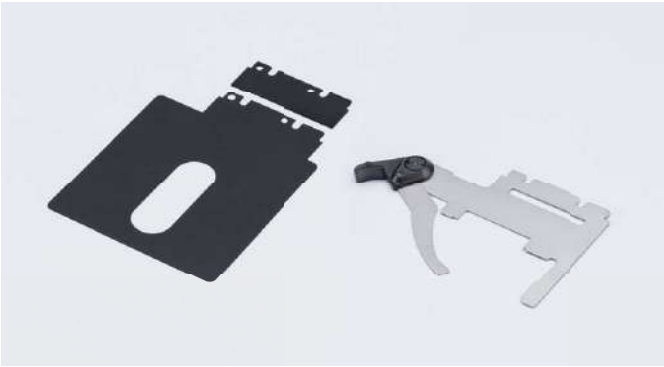

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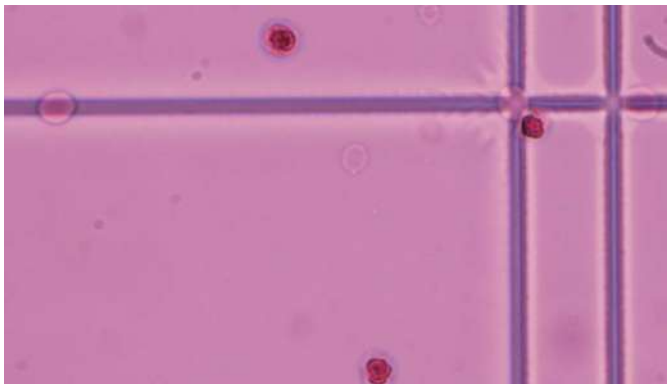
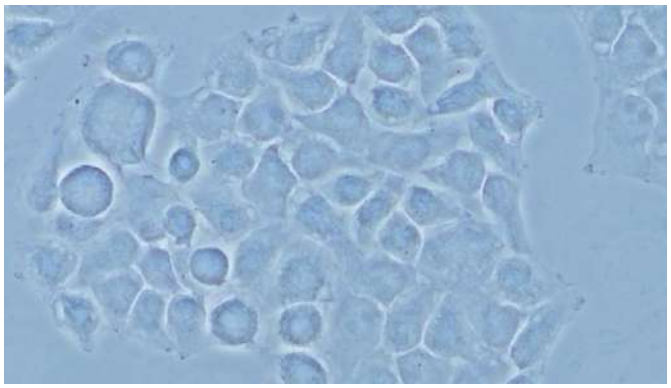


Leukocyte (minimum iris aperture)

Brightfield

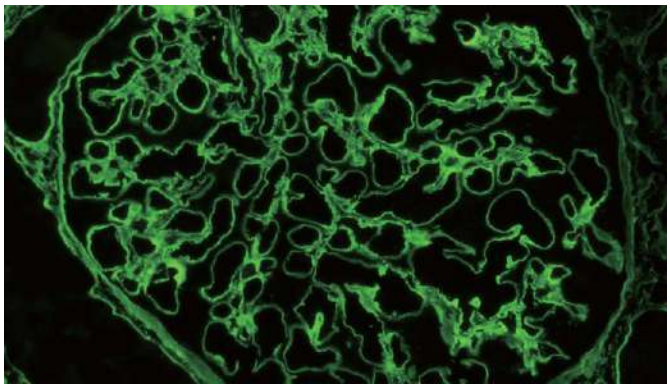
Urinary Cast (minimum iris aperture)

Phase Contrast



HeLa cells

Fluorescence



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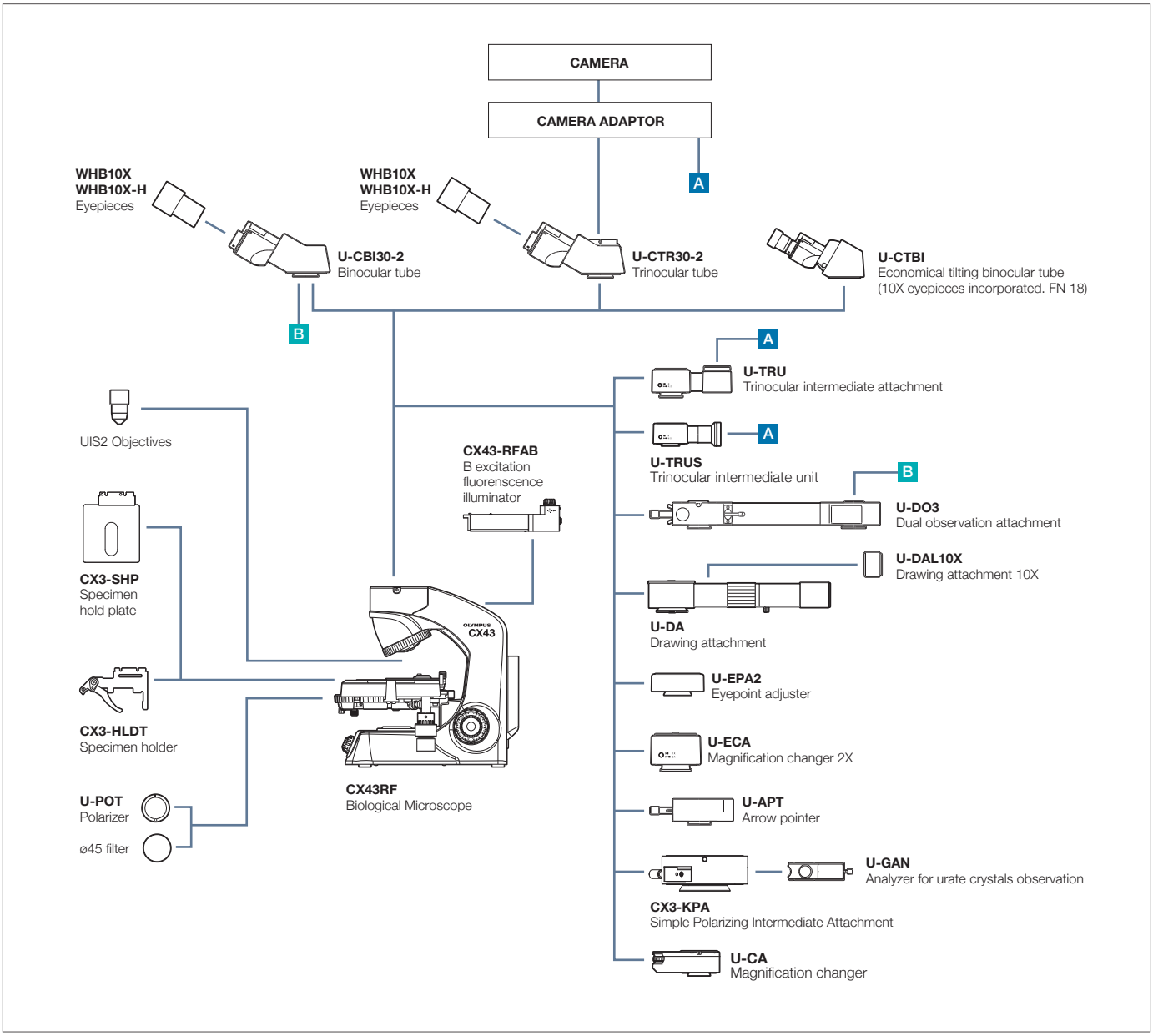
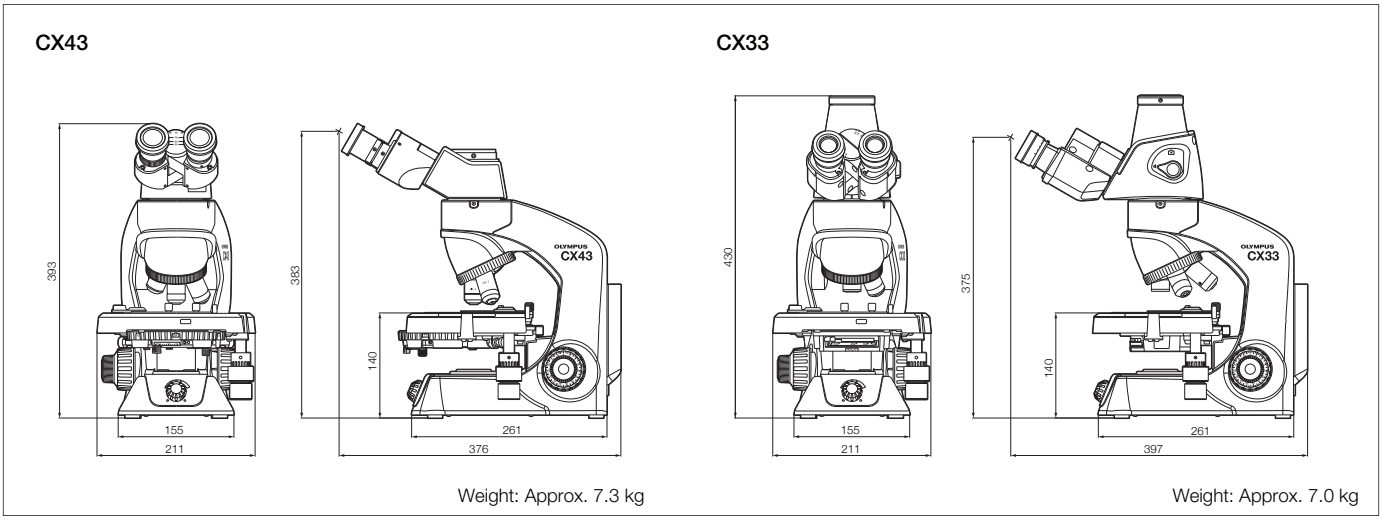
CX33

CX43 System



Dimensions

(Unit: mm)



Weight: Approx. 7.3 kg

Weight: Approx. 7.0 kg

CX43 Specifications

Optical System		UIS2 (universal infinity-corrected) optical system		
Illumination System		· Built-in transmited illumination system · Köhler illumination (fixed field diaphragm) · LED power consumption 2.4 W (nominal value), precentered		
Focusing		· Stage height movement (coarse movement stroke: 15 mm) · Stroke per rotation for coarse adjustment knob: 36.8 mm, Focusing stopper · Torque adjustment for coarse adjustment knob · Fine focus knob (minimum adjutsment gradations: 2.5 µm)		
Revolving Nosepiece		Fixed quintuple nosepiece with inward tilt		
Stage		· Wire movement mechanical fixed stage, (W × D): 211 mm × 154 mm · Traveling range (X × Y): 76 mm × 52 mm · Single specimen holder (optional: double specimen holder, sheet holder) · Specimen position scale · Stage XY movement stopper		
Observation Tube	Type (anti-fungal)	Binocular	Trinocular	Tilting binocular
	Eyepiece (anti-fungal)	10X Field Number (FN): 20	10X Field Number (FN): 20	10X Field Number (FN): 18
	Tube Inclination	30°	30°	30°–60°
	Light Path Selector	None	None (eyepiece/camera port = 50/50 fixed)	None
	Interpupillary Distance Adjusting Range	48–75 mm		
Condenser		· Abbe condenser NA 1.25 with oil immersion · Universal condenser with 7 turret positions: BF (4–100X), 2X, DF, Ph1, Ph2, Ph3, FL · Condenser turret lock pin (BF only) · Built-in aperture iris diaphragm · AS lock pin		
Observation Methods		Brightfield, simple polarization, fluorescence, phase contrast, darkfield		
Objectives		Plan achromat (UIS2), anti-fungal 2X NA 0.06 W.D. 5.8 mm 4X NA 0.1 W.D. 18.5 mm 10X NA 0.25 W.D. 10.6 mm 10XPH NA 0.25 W.D. 10.6 mm 20X NA 0.4 W.D. 1.2 mm 20XPH NA 0.4 W.D. 1.2 mm 40X NA 0.65 W.D. 0.6 mm 40XPH NA 0.65 W.D. 0.6 mm 60X NA 0.8 W.D. 0.2 mm 100XO NA 1.25 W.D. 0.13 mm 100XOPH NA 1.25 W.D. 0.15 mm 100XOI NA 1.25–0.6 W.D. 0.13 mm		
Fluorescence Light Source		Easily add an LED reflected fluorescence illuminator (peak excitation wavelength 470 nm: B excitation only), precentered		
Rated Voltage/Electric Current		AC 100–240 V 50/60 Hz 0.4 A		

CX33 Specifications

Optical System	Infinity optical system
Illumination System	· Built-in transmited illumination system · Köhler illumination (fixed field diaphragm) · LED power consumption 2.4 W (nominal value), precentered
Focusing	· Stage height movement (coarse movement stroke: 15 mm) · Stroke per rotation for coarse adjustment knob: 36.8 mm, Focusing stopper · Torque adjustment for coarse adjustment knob · Fine focus knob (minimum adjutsment gradations: 2.5 µm)
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Observation Tube	· 30° inclined trinocular tube (anti-fungal) · Light path selector: eyepiece/camera port = 100/0 or 0/100 · Interpupillary distance adjusting range: 48–75 mm · Eyepoint adjustment: 375.0–427.9 mm
Eyepieces (anti-fungal)	· 10X Field Number (FN): 20 · 15X Field Number (FN): 16 (optional)
Condenser	· Abbe condenser NA 1.25 with oil immersion · Built-in aperture iris diaphragm
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OPTIK

MICROSCOPE

SENIOR STUDENT MICROSCOPE

MODEL : KG-3

SENIOR STUDENT MICROSCOPE

STANDARD FEATURES :-

1. Sturdy and well-balanced monocular body. inclinable to horizontal level of 90 degree.
2. Mechanical tube length 160 ± 1 mm.
3. Fixed square stage 110 mm x 110 mm.
4. Dust proof triple revolving nose piece with positive click stops.
5. Focussing by coarse and fine adjustment without scale.
6. Substage Abbe type N.A. 1.25 condenser with iris diaphragm & swing out filter holder focusable by Rack & Pinion.
7. Illumination by plano concave mirror in fork mount.
8. Steple Grey, chemical resistant, back-on finish.
9. With dust cover packed in styrofoam case.
10. All parts are pressure Die-casted.

OPTICAL COMBINATION

EYE PIECES	OBJECTIVES	MAGNIFICATION
5X & 10X & 15X (Huygenian) any Two	X10 & 40 S/L (Achromatic)	X100 - X600

OPTIONAL ACCESSORIES

1. Illumination by sub stage pin type LED lamp working on battery.
2. Mechanical stage for X-Y movements of slide.
3. Eye Pieces. : W.F. I0X
4. Objective : X4, X20, X60 S/L, XI00 S/L Oil Imm.
5. Plywood cabinet with lock & key.

micron® OPTIK
MICROSCOPES

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STEREO BINOCULAR MICROSCOPE

Extends top quality optics and uncompromising performance for Education and Research Work

MODEL : STB-III

STEREO BINOCULAR MICROSCOPE

Model : STB-III

STANDARD FEATURES

1. Binocular Viewing Head 45 degree Inclined.
2. Coarse Movement on Rack and Pinion.
3. Built In illumination Incident and Transmitted light with Intensity control.
4. Duly Packed in Styrofom Box.

OPTICAL COMBINATION

EYE PIECES	OBJECTIVES
WF 10x (Paired)	2x and 4x (Turret type revolving)

OPTIONAL ACCESSORIES

1. LED Illumination
2. Wooden Packing Box
3. Eye Piece WF15x (Paired)

The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress without notice and without obligation.

micron® OPTIK
MICROSCOPES

An ISO 9001:2015 CERTIFIED COMPANY

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OPTIK

STUDENT MICROSCOPE

MICROSCOPE

MODEL : KG-2

STUDENT MICROSCOPE

STANDARD FEATURES :-

1. Sturdy and well-balanced monocular body. inclinable to horizontal level of 90 degree.
2. Mechanical tube length 160 ± 1 mm.
3. Fixed square stage 110 mm x 110 mm.
4. Dust proof triple revolving nose piece with positive click stops.
5. Focusing by coarse and fine adjustment without scale.
6. Substage Abbe type N.A. 1.25 condenser with iris diaphragm & swing out filter holder.
7. Illumination by plano concave mirror in fork mount.
8. Steple Grey, chemical resistant, back-on finish.
9. With dust cover in styrofoam case.
10. All parts are pressure Die-casted.

OPTICAL COMBINATION

EYE PIECES	OBJECTIVES	MAGNIFICATION
5X & 10X & 15X (Huygenian) any Two	X10 & 40 S/L (Achromatic)	X100 - X600

OPTIONAL ACCESSORIES

1. Illumination by sub stage pin type LED lamp working on battery.
2. Mechanical stage for X-Y movements of slide.
3. Eye Pieces. : W.F. I0X
4. Objective : X4, X20, X60 S/L, XI00 S/L Oil Imm.
5. Packed in plywood cabinet with lock & key.

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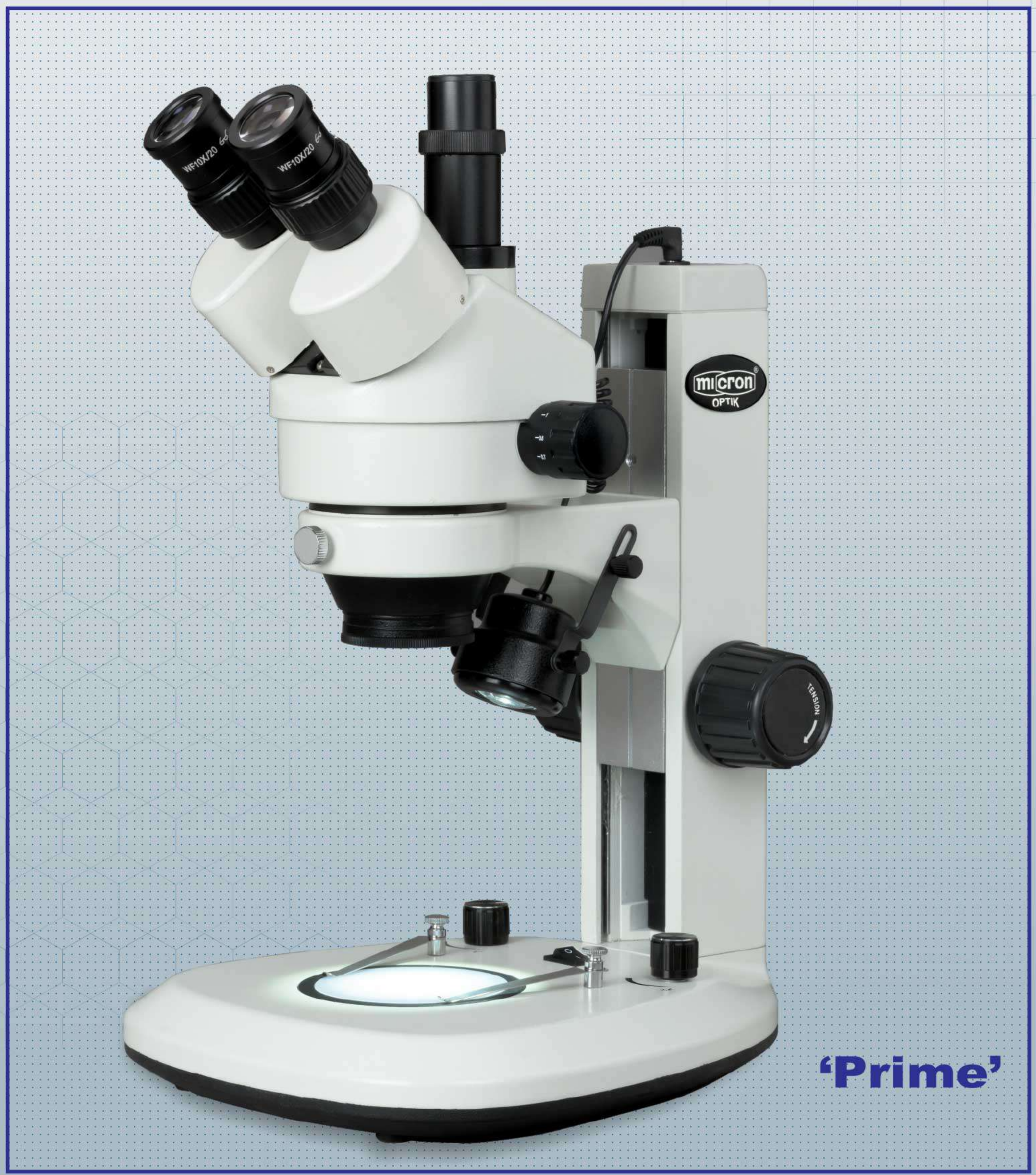
'Prime'
ZOOM STEREO TRINOCULAR MICROSCOPE

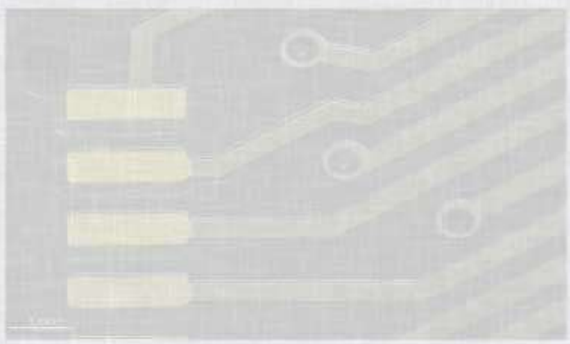


Zoom Stereo Trinocular Microscope - 'PRIME'

Powerful Imaging Capabilities at an Economical Price.

Featuring a zoom magnification of 7x to 45x and a long working distance of 100mm, Well suited for biology, medicine, scientific research, modern electronics industry and other industrial uses such as high precision applications. Fully coated prism produces brighter images with higher contrast, and the anti-mold design allows the microscope to be used in environments where the temperature and humidity are high.

Technical Specification		
Eye Piece	—	Pair WF 10x/20 mm eye pieces.
Head	—	Trinocular heads with 45° inclined tubes.
	—	Both eye pieces with ± 5 mm diopter adjustments .
	—	Inter pupillary distance adjustable between 55 mm to 75 mm.
Objective	—	Zoom Ratio 6.4 : 1, 7x to 45x magnifications.
	—	Field of view from 33 mm to 4.9 mm.
	—	Working distance 100 mm.
Stand	—	Ergonomically designed pillar or rack and pinion stand with LED illumination and 2 object clamps.
	—	Alloy metal cast, hardened off-white painted.
Focusing Adjustment	—	Coarse adjustment , Moving on Ball Bearing Guide ways.
Illumination	—	Transmitted and incident 3W LED illuminations with built-in 100-240V power supply.
	—	Both illuminators can be used simultaneously and the light intensities can be adjusted separately.
Packaging	—	Supplied with power cord, dust cover, user manual. All packed in a polystyrene box.
Optional	—	Optional auxiliary lens 0.5X, 0.75X, 1.5X & 2.0X.
	—	USB CAMERAS OR CCD cameras.




The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress without notice and without obligation. All Micron Optik Instruments are warranted against defect in materials and workmanship for one year .

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