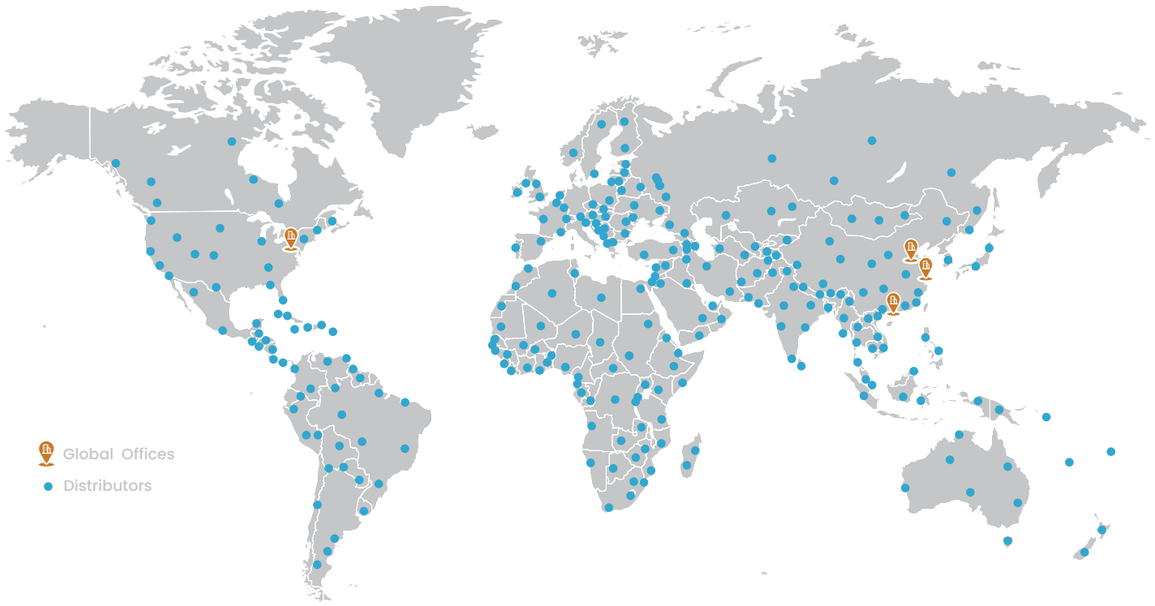

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Infitek

Microscope

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Laboratory and Medical equipment one-stop solution provider

INFITEK CO., LTD.

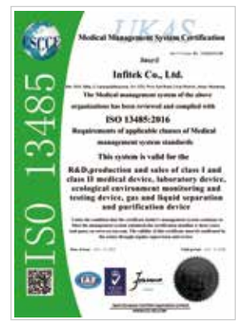
• V.26

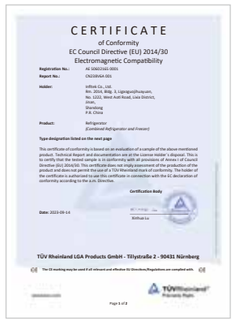
INTRODUCTION

As a manufacturer of professional scientific instruments, Infitek has 18 factories, with products and services range from life sciences, chemical analysis, optical analysis, water quality testing and environmental monitoring, etc.

Infitek has established R&D centers in Shenzhen, Beijing, Shanghai and Jinan, and has developed collaboration with established in-depth cooperation with hundreds of well-known universities and scientific research institutions at home and abroad.

CERTIFICATE





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ISO9001
ISO13485
ISO45001

Infitek continues to improve its core competitiveness, and numerous products have been US FDA-listed and obtained CE certificates. In addition, the company has achieved ISO9001, ISO13485, and ISO45001 certifications. The company will continue to be committed to providing innovative scientific instruments and solutions to global scientific research institutions, laboratories and industrial enterprises, and building a comprehensive service platform for scientific instruments and medical devices integrating R&D, production, sales and service.

Infitek

Founded in 2010, Infitek is headquartered in Shenzhen, China. Infitek is committed to providing customers with high-quality products and services, contributing to the continuous improvement of the quality of life, the simplicity& efficiency of scientific experiments, and the sustainable development of the world.

Infitek will continue to increase investment in scientific researches, deepen cooperation with business partners, provide customers with better products and services, meet the needs of global customers, and realize one-stop service. With unremitting efforts and innovative spirit, Infitek is heading to accomplish the mission of ranking in top 10 global scientific service platforms, and creating unlimited possibilities for the sustainable development of the world.

Biological Microscope

MSC-B208(Siedentopf) **MSC-B208T(Siedentopf)**

CE

Features

This instrument conforms to ergonomics, with low operation long time observation of fatigue, superior optical properties; suitable for all levels of medical institutions, do research demonstration Jishengjitong laboratory routine inspection, biology, bacteriology, clinical trials and teaching.

MSC-B208(Siedentopf)

MSC-B208T(Siedentopf)

Specifications

Model	MSC-B208(Siedentopf)	MSC-B208T(Siedentopf)
Optics	Finite Distance Optical System / *Infinity Optical System	Finite Distance Optical System / *Infinity Optical System
Observation Tube	Tilting binocular,interpupillary 55-75mm	Tilting trinocular,interpupillary 55-75mm
Viewing Head	Siedentopf head,inclined at 30°	Siedentopf head,inclined at 30°
Optical Coating	Transmittance ≥ 95%	Transmittance ≥ 95%
Eyepieces	Wide field eyepiece WF10×18mm	Wide field eyepiece WF10×18mm
	*Wide field eyepiece WF10×20mm	*Wide field eyepiece WF10×20mm
Objective	Achromatic objective 4X, 10X, *20X,40X, 100X	Achromatic objective 4X, 10X, *20X,40X, 100X
	*Plan achromatic objective: 4X, 10X, *20X, 40X, 100X	*Plan achromatic objective: 4X, 10X, *20X, 40X, 100X
	*Plan phase objective: Ph10X, 20X, 40X, 100X	*Plan phase objective: Ph10X, 20X, 40X, 100X
	*Infinite plan achromatic objective: 4X, 10X, *20X, 40X,100X	*Infinite plan achromatic objective: 4X, 10X, *20X, 40X,100X
Nosepiece	Quadruple nosepiece / *Quintuple nosepiece	Quadruple nosepiece / *Quintuple nosepiece
Stage	Double layers mechanical stage 140×135mm / 75×50mm (*Heating module)	Double layers mechanical stage 140×135mm / 75×50mm (*Heating module)
Condenser	Abbe NA1.25 with iris diaphragm & filter	Abbe NA1.25 with iris diaphragm & filter
Focusing	Coaxial coarse and fine adjustment, fine division 0.002mm, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 22mm	Coaxial coarse and fine adjustment, fine division 0.002mm, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 22mm
Illumination	3W LED Illumination, brightness adjustable	3W LED Illumination, brightness adjustable
	*6V 20W Halogen lamp, brightness adjustable	*6V 20W Halogen lamp, brightness adjustable
Electricity	100-240V AC,50/60Hz	100-240V AC,50/60Hz
Package Dimension (W*D*H) (mm)	370*260*490	370*260*490
Gross Weight (Kg)	6.5	7
*Optional	Turret phase contrast kit, dark field attachment, 360° rotatable viewing head	Turret phase contrast kit, dark field attachment, 360° rotatable viewing head
	MSC-B208T: Microscope camera (Standard imaging software) / Win 10 Pad / Digital display	MSC-B208T: Microscope camera (Standard imaging software) / Win 10 Pad / Digital display
*Optional Configuration		

Biological Microscope

MSC-B400W

Description

This biological microscope adopts UIS infinite distance optical technology, and is highly expandable, can be equipped with vertical illumination device, fluorescence device and other auxiliary equipment.

Features

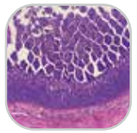
Eyepiece
10X, 16X flat field eyepieces
Hinged barrel for comfortable adjustment
30° tilt, 360°free rotation

Stage
Double moving platform 140×160mm
Moving range: 76×45mm

Objective
Infinity flat field achromatic objective
4X, 10X, 40X, 100X (oil)

Condenser
N.A. 1.25 Abbe spotting scope
Variable light bar in adjustable center

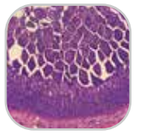
Focus
30 mm coarse and fine co-axial focusing mechanism with limit
Coarse focusing tension adjustment device
Micro-adjustment grid value: 0.002mm



Visual Observation
Sharp edges and stable imaging
Color reproduction, high resolution

MSC-B412W
PAD imaging observation
Complete visualization
Simple operation and stable imaging

Light Source
LED bicolor electric light source
Yellow and white light switching
Kohler lighting
Adjustable brightness



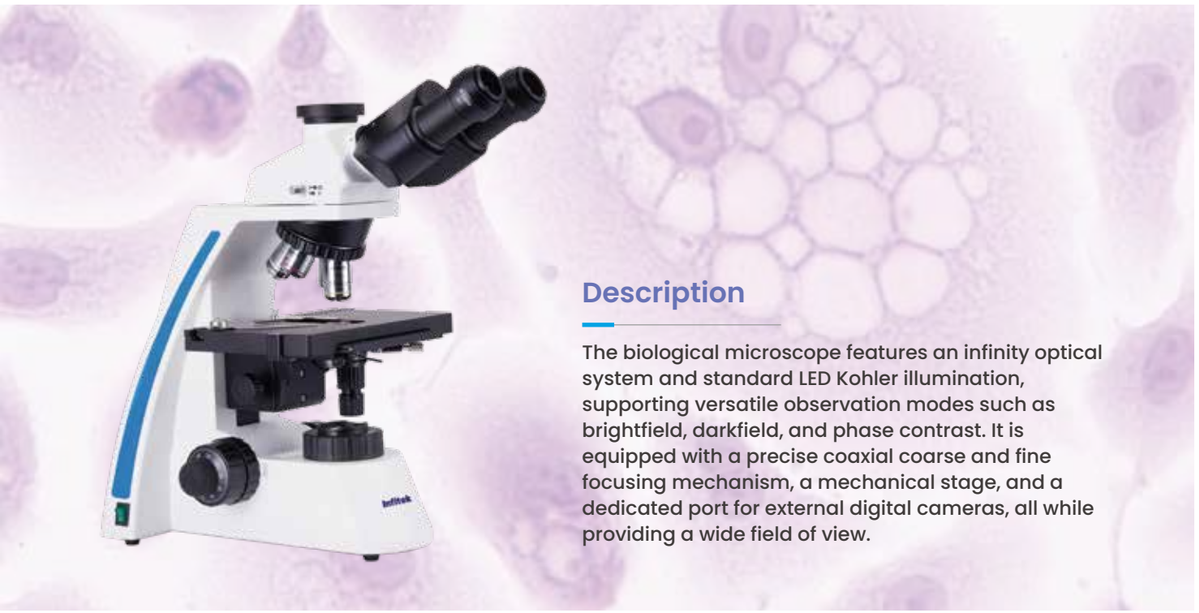
MSC-B411W
CMOS Imaging Observation
Complete visualization
Simple operation and stable imaging

Specifications

Model	MSC-B400W
Optics	Infinity optical system
Observation Tube	Tilting binocular, Interpupillary 55-75mm
Viewing Head	Siedentopf head, inclined at 30°
Eyepiece	Plan field eyepiece, 10X, φ22mm
Objective	Plane infinite distance objective 4X, 10X, 40X, 100X (oil)
Nosepiece	Quadruple nosepiece
Magnification	40X-1000X
Stage	Double layers mechanical stage
	Size: 140x160mm, Range: 76x45mm, ruler: 0.1mm
Focusing	30mm Coaxial coarse and fine focus adjustment
	Fine focusing scale 0.002mm
Condenser	Abbe N.A.1.25 condenser with Iris diaphragm, dark field (Optional)
Filter	Blue, Green
Light Source	LED two-color electric light source, yellow and white light switching,
	Kohler lighting, adjustable brightness
Computer Image Forming System	/
PAD Image Forming System	/

Biological Microscope

MSC-B31M



Description

The biological microscope features an infinity optical system and standard LED Kohler illumination, supporting versatile observation modes such as brightfield, darkfield, and phase contrast. It is equipped with a precise coaxial coarse and fine focusing mechanism, a mechanical stage, and a dedicated port for external digital cameras, all while providing a wide field of view.

Features

Easy to carry and store

It features a compact, space-saving design. It is equipped with a tool-free thumb screw for the observation head, allowing for quick rotation to minimize the instrument's footprint for easy storage in classroom cabinets. Furthermore, the integrated carrying handle on the rear ensures safe and convenient transport between locations.

Wide-field, high eye point eyepieces

Featuring 22mm wide-field eyepieces, this microscope provides a flat and expansive field of view, reducing eye strain during extended observation. The high eye point design caters to eyeglass wearers, allowing for a comfortable viewing experience without the need to remove their glasses.

Excellent infinity optics

The independent achromatic infinity optical system delivers clear imaging and rich details. It is expandable to various observation modes, such as fluorescence, while ensuring consistent magnification when switching between different observation methods.

Low-Position Focusing System

Its design allows users to observe and operate in the most comfortable posture, avoiding fatigue caused by keeping hands suspended when working for prolonged periods.

LED light source & Kohler illumination system

The long-life, high-brightness LED source provides stable, uniform, and glare-free illumination. The intensity is continuously adjustable via a side-mounted knob to maintain optimal image quality. Standard Kohler illumination ensures sharper imaging at low magnifications and offers easier maintenance.

Specification

Model	MSC-B31M
Optics	Infinity optical system
Observation Tube	Tilting trinocular, Interpupillary 53-75mm
Viewing Head	Siedentopf head, inclined at 30°, light split 100:0/ 0:100
Eyepiece	Wide field WF10X/22mm
Objective	Infinity Plan Achromatic Objectives 4X, 10X, 40X, 100X
	Infinity Plan Achromatic Objective 20X (Optional)
Nosepiece	Inward quadruple nosepiece
Stage	Double-layer mechanical stage,
	Size: 210×140mm, Moving range:76×50mm
Focusing	Coaxial coarse and fine adjustment, with locking and limit device, fine division 2μm, coarse stroke 40mm per rotation, fine stroke 0.2mm per rotation, focusing range 24mm
Transmitted Illumination	Abbe Condenser NA1.25
	LED light source, adjustable brightness, Kohler lighting
Camera Port	TV1XC-MO (camera not included)
External Dimension(L*W*H)	400*210*425mm
Phase Contrast	Plan achromatic phase contrast objectives Plan 10X/20X/40X/100X PH (optional)
	Phase contrast condenser turret (optional)
Dark Field	Dark field condenser (optional)

Biological Microscope

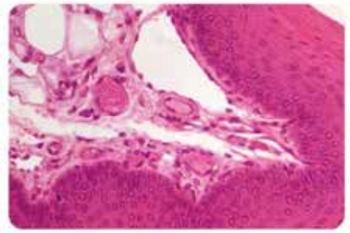
MSC-B45

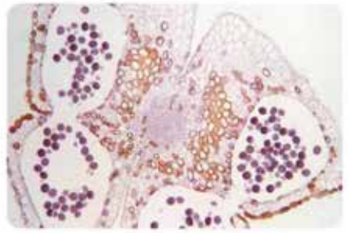
- Eyepiece: Wide-field WF10X / F.N. 23
- Plan Achromatic Objectives: A-plan 4X/10X/40X/100X
- Nosepiece: Quintuple nosepiece
- With LCD display screen
- Features ECO sensing and optional voice broadcast function

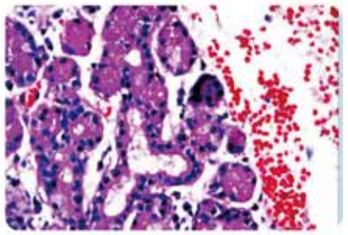
Features

- Integrated LCD screen for real-time display of objective magnification, brightness, voice control, and ECO mode, ensuring total control of the instrument status.
- Infinity-corrected optical system for superior image quality.
- Inward-facing quintuple coded nosepiece and F.N. 23 wide-field eyepieces.
- Upgradable to motorized microscope systems and fluorescence observation modes.

Sample Images







Specification

Model	MSC-B45
Optics	Infinity-corrected optical system; bright field observation; upgradable to phase contrast, fluorescence, dark field, etc.
Observation Tube	Tilting trinocular, Interpupillary 50-75mm
Viewing Head	Siedentopf head, inclined at 30°
Eyepiece	Wide-field WF10X / F.N. 23; Diopter adjustable
Objective	Plan Achromatic Objectives: A-plan 4X/10X/40X/100X (Other types and magnifications optional)
Nosepiece	Inward-facing quintuple coded nosepiece; features brightness memory and brightness adjustment for different magnifications
Stage	Mechanical stage, Size: 232 × 158mm, Moving range:80×50mm
Focusing	Coaxial coarse and fine adjustment, focusing range 25mm, fine division 0.002mm
Transmitted Illumination	Abbe condenser N.A. 1.1; 3W LED light source with continuously adjustable color temperature to provide better illumination for various samples
Display	Integrated LCD screen; Real-time display of current objective magnification, brightness level, voice broadcast status, and ECO mode
Main Body	ECO sensing function: Auto-off when user is away, auto-on when user returns; improves convenience and energy efficiency.
	Supports powering via external power banks, expanding the microscope's application range and usage scenarios.
	Supports USB programmable control, allowing for expansion of software-side control and integration.
	Optional voice broadcast function provides real-time announcements of objective magnification when switching, ensuring effortless and convenient operation.

Biological Microscope

MSC-B51N

Specification

Model	MSC-B51N
Optics	Infinity optical system
Observation Tube	Tilting trinocular, Interpupillary 50-75mm, binocular: trinocular split ratio 100:0 or 20:80 or 0:100
Viewing Head	Siedentopf head, inclined at 30°
Eyepiece	Wide field of view 10X /25mm
Objectives	Plan Semi-Apochromatic Objectives 4X /10X /40X /100X
	Plan Semi-Apochromatic Objective 20X (Optional)
Nosepiece	Inward coded quintuple nosepiece
Stage	Highly wear-resistant ceramic-coated stage; Moving range: 80×50mm; Precision: 0.1mm
Focusing	Coaxial coarse and fine adjustment, focusing stroke 25mm, with upper limit stop position for coarse adjustment, the torque of the coarse adjustment knob is adjustable, and the fine adjustment scale is 1μm
Transmitted Illumination	Abbe condenser, N.A. 1.1, Kohler illumination
	Warm white LED light source, continuously adjustable brightness, with light intensity manager
Camera Port	TV1XC-MO (without camera)
Dimensions(L*W*H)	362*274.5*500 mm
Optional Accessories	
Phase Contrast	Plan Achromatic Phase Contrast Objectives: 10X/20X/40X/100X PH
	Turret type of phase contrast condenser
	Centering telescope
Dark Field	Dark field condenser
Eyepiece	Wide field 10X/23mm
Objectives	Plan Semi-Apochromatic Objectives (Plan Fluor) 4X/10X/20X/40X/100X
Nosepiece	Inward coded sextuple nosepiece
Camera Port	TV0.5XC-MO

Features

Wide-field high eye point eyepieces

An ultra-wide 25mm field of view provides a more comprehensive observation area. The high eye point design allows for comfortable viewing without removing glasses. Adjustable diopters ensure that the binocular image is synchronously clear for both eyes.

Butterfly design frame

The butterfly-shaped design offers an elegant and modern aesthetic. The Y-shaped base enhances structural stability, ensuring vibration-free observation even at high magnifications. Furthermore, the integrated rear carrying handle significantly improves portability and ease of transport.

Low-position controls & Ceramic-coated stage

The low-position design allows hands to rest comfortably on the table while controlling the stage, minimizing fatigue caused by unsupported arm positions during prolonged use. The ceramic-coated stage is wear and scratch-resistant, ensuring the surface remains flat even after years of intensive use.

Plan Semi-Apochromatic Objectives

The semi-apochromatic objectives, featuring high numerical apertures, provide images with a high signal-to-noise ratio, high resolution, and high contrast. They ensure consistent sharpness across a wider field of view.

Warm white LED light source with light intensity manager

The long-life, high-brightness warm white LED provides stable, uniform, and glare-free illumination. Equipped with light intensity manager, the system allows for presetting brightness for each objective magnification. This eliminates the need for manual readjustment when switching between objectives, ensuring consistent brightness at all times.

Fluorescence Microscope

MSC-F31

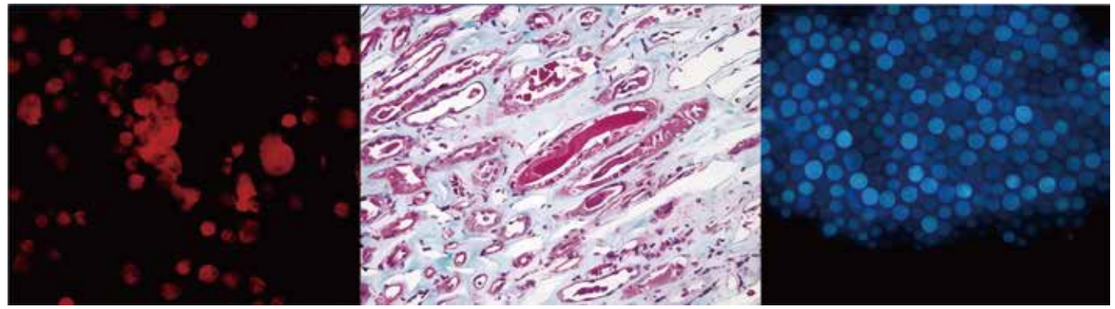
- Eyepiece: Wide field WF10X /FN 22mm
- Observation Tube: Tilting trinocular, Interpupillary 53~75mm
- Inward quadruple nosepiece
- High-contrast LED fluorescence illumination
- Abbe N.A.1.25 condenser with Iris diaphragm

Features

- High-contrast LED fluorescence illumination delivers crisp and sharp imaging.
- Long service life and user-friendly operation with minimal training required.
- Optional fluorescence accessories are available for various fluorescence applications and can be customized to meet specific requirements.

Description

The fluorescence microscope features an infinity optical system. Its LED excitation source delivers sharp, high-contrast fluorescence images across the entire field of view. For bright field observation, the Abbe condenser enhances specimen visibility and contrast. With good imaging and user-friendly operation, it is widely utilized in medical diagnostics, education, and biological research.



Specification

Model	MSC-F31
Optics	Infinity optical system
Observation Tube	Tilting trinocular, Interpupillary 53~75mm
Viewing Head	Siedentopf head, inclined at 30°
Eyepiece	Wide field WF10X /FN 22mm
Objectives	Infinity Plan Achromatic Objective 4X/0.1 W.D.=21.5 mm
	Infinity Plan Achromatic Objective 10X/0.25 W.D.=7.5 mm
	Infinity Plan Achromatic Objective 40X/0.65 W.D.=0.65 mm
	Infinity Plan Achromatic Objective 100X/1.25 W.D.=0.185 mm
Nosepiece	Inward quadruple nosepiece
Stage	Double-layer mechanical stage, Size: 210×140mm, Moving range:76×50mm
Focusing	Coaxial coarse and fine adjustment, with tension and limited stopper, fine division 2μm, coarse stroke 40mm per rotation, fine stroke 0.2mm per rotation, focusing range 24mm
Condenser	Abbe N.A.1.25 condenser with Iris diaphragm
Kohler Illumination	White LED, brightness adjustable
Fluorescence Illumination	EF:420-480nm /DM:>500nm /BF: >510nm, Blue LED
Electricity	AC 100-240V, 50-60Hz
Camera Port	0.5X C-mount adapter
Optional	Polarizing Attachment, Dark field Attachment, Phase Contrast Attachment

Fluorescence Microscope

MSC-F43N

- Eyepiece: Wide field 10X/23mm, 10X/25mm (optional)
- Nosepiece: Quintuple nosepiece
- Ceramic-coated stage & Sextuple fluorescence module
- Warm white LED light source with light intensity manager

Ergonomic Design, Convenient and Efficient

Low torque stage

The low-position fixed stage and focusing mechanism enhance ergonomic comfort. Minimal hand movements allow for effortless specimen positioning, reducing operator fatigue.

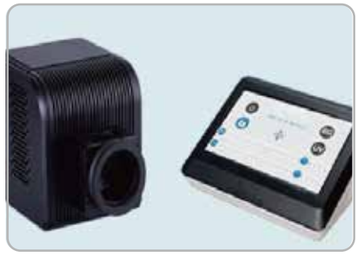
Observation tube

Wide-field trinocular tube with a 30° inclination. The FN 25 ultra-wide-field eyepieces can meet the needs of different scenarios.

Ergonomic Design, Convenient and Efficient

Light intensity management

The light intensity management system automatically sets the matching brightness levels for each objective. It maintains consistent illumination when switching from low to high magnifications, eliminating the need for frequent manual adjustments.



Fluorescence Illumination System

Featuring a long-life, broadband, high-power LED light source, this system delivers uniform brightness with minimal maintenance. The spectral coverage spans from 350nm to 760nm, which can be turned on or off without preheating.

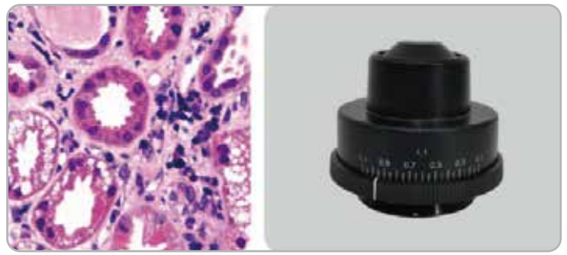
Sextuple fluorescence module

Equipped with high-quality band-pass filter sets, these high-performance filters ensure vivid, bright, and uniform fluorescence observation. The filter sets can be replaced without tools.

Semi-Apochromatic FLN objectives

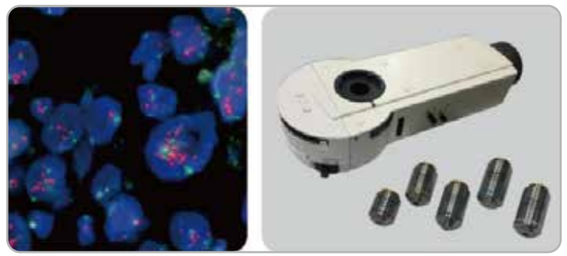
Specially designed for high-resolution and high-contrast imaging, these objectives feature high fluorescence sensitivity to ensure exceptional sharpness, clarity, and color reproduction of the collected image.

Advanced Design Suitable for Multiple Observation Methods



Bright field observation

With a high-quality U-AC condenser for 20X–100X (oil) continuous observation, all magnifications can achieve high resolution and a flat field of view



Fluorescence observation

The 6-position turret fluorescence module features user-replaceable filter cubes. With a wide variety of available filter sets, the system delivers a high signal-to-noise ratio, making it ideal for advanced applications such as FISH, FRET, and CTC detection.

Phase contrast observation

High-contrast phase contrast images enable close-up observation of internal cellular structures and live bacteria. By using a phase contrast condenser, users can observe the phase contrast effects of the specimen.

Dark field observation

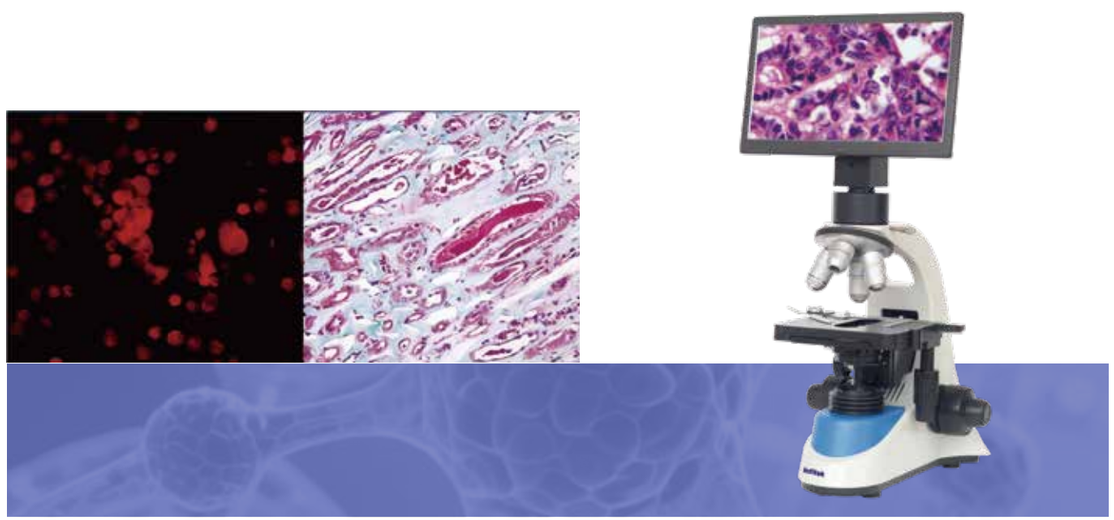
Delivers good dark field observation from low to high magnifications with complete detail reproduction, meeting the requirements for observing fine details in biological tissues.

Specification

Model	MSC-F43N	
Optics	Infinity optical system	
Observation Tube	Tilting trinocular, Interpupillary 50-75mm	
Viewing Head	Siedentopf head, inclined at 30°	
Eyepiece	Wide field 10X/23mm, 10X/25mm (optional)	
Objective	Light split ratio (Binocular/Trinocular): 100:0/ 20:80/ 0:100	
	Plan Semi-Apochromatic Objectives: 4X/10X/40X/100X	
	Plan Semi-Apochromatic Objective: 20X (Optional)	
Epi-fluorescence Illumination System	Wide-spectrum high-power LED fluorescence source MG-100 (Standard); 4-channel light source MG-120 (Optional)	
	Touch-screen controller	
	Epi-fluorescence Illuminator FL-43 (6-position turret, standard BGU 3-channel, optional YVR, etc.)	
	Filter Set FB-U-M	EX: 375/30nm; DM: 415nm; EM: 460/50nm
	Filter Set FB-B-M	EX: 475/30nm; DM: 505nm; EM: 530/40nm
	Filter Set FB-G-M	EX: 540/25nm; DM: 565nm; EM: 605/55nm
	V Band (Optional)	EX: 405/30nm; DM: 440nm; EM: 450nm LP
	R Band (Optional)	EX: 620/50nm; DM: 655nm; EM: 692/45nm
	Y Band (Optional)	EX: 560/40nm; DM: 600nm; EM: 610nm LP
	Dual-band B/G (Optional)	EX: 470/40 & 575/35nm; EM: 525/40 & 625/60nm
	Royal Blue B2 (Optional)	EX: 450/50nm; DM: 485nm; EM: 495nm LP
	Yellow G2 (Optional)	EX: 560/40nm; DM: 600nm; EM: 610nm LP
Nosepiece	Inward quintuple nosepiece	
Stage	Highly wear-resistant ceramic-coated stage; Moving range: 80×50mm; Precision: 0.1mm	
Focusing	Coaxial coarse and fine adjustment, focusing stroke 25mm, with upper limit stop position for coarse adjustment, the torque of the coarse adjustment knob is adjustable, and the fine adjustment scale is 1μm	
Transmitted Illumination	Abbe condenser, N.A. 1.1, Kohler illumination	
	Warm white LED light source, continuously adjustable brightness, with light intensity manager	

Digital Microscope

MSC-V208



Specifications

Model	MSC-V208
Optics	Finite Distance Optical System
Viewing Head	10 inches display screen (5MP Camera)
Video Adapter	C Mount 1X、0.5X
Objective	Plan achromatic objective:4X, 10X, *20X, 40X, 100X
Nosepiece	Quadruple / *Quintuple
Stage	Double layers mechanical stage 140×135mm/75×50mm
Condenser	Abbe NA1.25 with iris diaphragm & filter
Focusing	Coaxial coarse and fine adjustment, fine division 0.002mm,coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 20mm
Illumination	3W LED illumination, brightness adjustable *6V 20W halogen lamp, brightness adjustable
Electricity	100-240V AC,50/60Hz
Package Dimension (W*D*H) (mm)	370*270*480
Gross Weight (Kg)	6
*Optional	Turret phase contrast kit, dark field attachment, Microscope camera/Win10 Pad/Android Pad
*Optional Configuration	

Inverted Microscope

MSC-IV403

Specification

Model	MSC-IV403
Optics	Finite Distance Optical System
Observation Tubes	Tilting trinocular,interpupillary 50-75mm
Viewing Head	Seidentopf head,inclined at 45°
Optical Coating	Transmittance ≥ 95%
Eyepiece	Wide field eyepiece WF10×20mm
Objective	LWD plan objective LWDPL4X\10X\20X\40X
Nosepiece	Quadruple nosepiece
Stage	Double layers mechanical stage，stage size: 242mm× 172mm，central stage: Φ110mm，moving range: 75mm × 50mm
Condenser	N.A.0.3Abbe condenser W.D .75mm
Focusing	Coaxial coarse&fine focusing adjustment with rack and pinion mechanism fine focusing scale value 0.002mm
Illumination	Halogen bulb12V/30W,adjustable brightness
Electricity	100-240V AC,50/60Hz
Package Dimension (W*D*H) (mm)	770*330*480
Gross Weight (Kg)	13

Inverted Biological Microscope

MSC-IV52BN

- Eyepiece: Wide field WF10X/22mm; Centering telescope
- Nosepiece: Quintuple nosepiece
- With quick-release sample holder
- LED illumination for phase contrast

Description

- Featuring an advanced infinity optical system, this microscope delivers good imaging performance. It is ideal for live-cell imaging, transparent liquid tissues, and dynamic monitoring of cultures directly in their vessels.

Features

Siedentopf binocular head

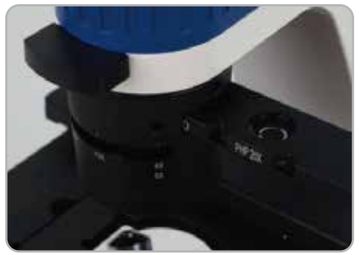
The 45° inclination provides better viewing angle for ergonomic comfort. The Siedentopf-type head with an interpupillary distance range of 53–75mm easily accommodates the needs of different users.

Wide-field high eye-point eyepiece

The 22mm wide-field eyepieces provide a flat and expansive view, reducing eye strain during prolonged observation. The high eye point design enables comfortable use even while wearing glasses. Additionally, adjustable diopters ensure that the binoculars are synchronized and clear.

LED illumination for phase contrast

The long-life LED light source provides stable, uniform, and glare-free illumination. With continuously adjustable intensity, it ensures good image quality at all times. Additionally, the push-pull phase contrast slider enables easy and efficient phase contrast observation.



Built-in C-mount adapter

The built-in 0.75X C-mount adapter allows for camera connection and is compatible with most mainstream digital cameras. By positioning the port on the lower left side of the base, the microscope features a reasonable layout that provides ample workspace for cell culture observation and manipulation.

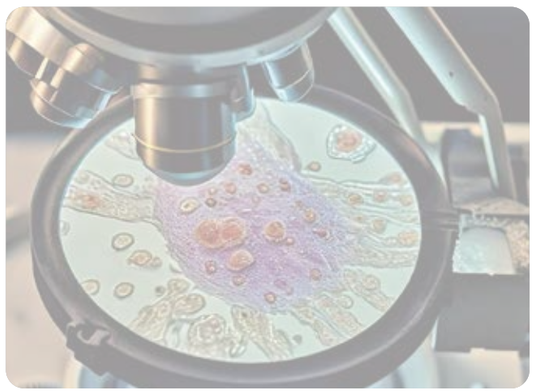
Features

Modular design

With its integrated, space-saving structure, the microscope fits perfectly inside laminar flow hoods and small laboratory settings. The portable rear design allows for safe and convenient re-location across the lab.

Quick-release sample holder

Equipped with a variety of Petri dish holders to accommodate different sizes, the sample holder can be quickly installed or removed. This design easily creates a flat stage surface for placing irregularly shaped Petri dishes.



Specification

Model		MSC-IV52BN
Optics		Infinity optical system
Observation Tube		Tilting trinocular, Interpupillary 53~75mm, light split 100:0/0:100
Viewing Head		Siedentopf head, inclined at 45°
Eyepiece		Wide field WF10X/22mm; Centering telescope
Objectives		Infinity long working distance plan achromatic objectives Plan 4X/0.12, Work distance: 10.8mm
		Infinity long working distance plan achromatic objectives LACH Plan 40X/0.60, Work distance: 3.5mm
		Infinity long working distance plan achromatic phase contrast objectives Plan 10X/0.25 PH, Work distance: 4.1mm
		Infinity long working distance plan achromatic phase contrast objectives Plan 20X/0.45 PH, Work distance: 5mm
Nosepiece		Quintuple nosepiece; Ball-bearing with anti-fungus treatment
Focusing		Coaxial coarse / fine focusing; with tension adjustment and upper limit stop; Fine adjustment graduation: 2μm
Stage		Fixed stage size: 227 × 208 mm; Mechanical stage; Moving range: 135×77 mm
		Glass rotundity stage overall size: outer φ118mm, inner φ 68mm
	Petri dish holder 1	Inside locating slot size: 86mm×129.5mm, suitable for circular culture dish ϕ 90mm
	Petri dish holder 2	Inside locating slot size: 34mm×77.5mm, suitable for circular culture dish ϕ 68.5mm
	Petri dish holder 3	Inside locating slot size: 57mm×82mm, suitable for circular culture dish ϕ 60mm
	Petri dish holder 4	Inside locating slot size: 29mm×77.5mm, suitable for circular culture dish ϕ 35mm
Transmitted Illumination		White LED lamp with brightness adjustable
		Push-pull type condenser, working distance 55mm
		Green filter
Phase Contrast Ring Plate		10X, 20X, 40X (20X and 40X in one unit)
Camera Port		Internal set 0.75X C-mount (without camera)
External Dimension (L*W*H)		486*255*537mm
Fluorescence Observation		3-channel digital LED fluorescence attachment (optional)
		Long working distance plan semi-achromatic phase contrast objective Plan Fluor 10X/20X/40X PH (optional)

Inverted Fluorescence Microscope

MSC-IV52FN

Application

It is suitable for the microscopic observation of cell tissues and transparent liquid tissues, as well as fluorescence microscopy in fields such as biopharmaceuticals, medical testing, and disease prevention.

Features

- Ultra-long service life.
- Stable output throughout the service life ensures effective excitation.
- High-intensity illumination with a short optical path, safe and reliable.
- Easy installation and alignment-free operation with instant ON/OFF.
- Various fluorescence filter cubes for flexible configurations.
- Compatible with infinity optical systems from all major brands.
- Professional customized solutions tailored to diverse user needs.
- Fluorescence module is removable and upgradable to 5 channels, with 3/4-color fluorescence bands optional.

Description

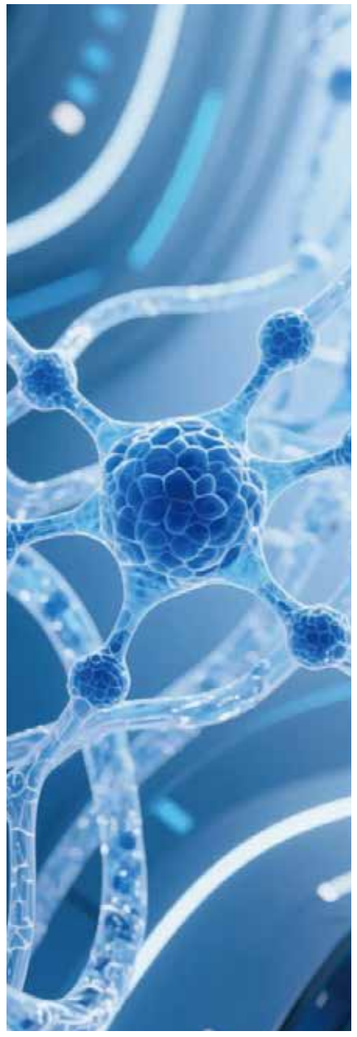
- The inverted fluorescence microscope features an excellent infinity optical system, equipped with long working distance plan achromatic objectives and wide-field eyepieces. The compact, stable, and high-rigidity main body meets the anti-vibration requirements for microscope operation. The epi-fluorescence system adopts a modular design concept, allowing for safe and rapid adjustment of the illumination system and switching of fluorescence filter sets.

Specification

Model	MSC-IV52FN	
Optics	Infinity optical system	
Observation Tube	Tilting trinocular, Interpupillary 53~75mm	
Viewing Head	Siedentopf head, inclined at 45°	
Eyepiece	SWF10X/22 plan eyepiece, high eye point; Centering telescope;	
Objectives	Infinity long working distance plan achromatic objectives Plan 4X/0.12, Work distance: 10.8mm	
	Infinity long working distance plan achromatic objectives Plan 10X/0.25, Work distance: 4.1mm	
	Infinity long working distance plan achromatic objectives Plan 40X/0.58, Work distance: 2.5mm	
	Infinity long working distance plan achromatic phase contrast objectives Plan 10X/0.25 PH, Work distance: 4.1mm	
	Infinity long working distance plan achromatic phase contrast objectives Plan 20X/0.45 PH, Work distance: 5mm	
Epi-fluorescence Illumination System	LED cold light source; Continuously adjustable brightness	
	Standard 3-filter cubes; Others available as options	
	Excitation filter	Excitation wavelength
	Ultraviolet (UV)	330~380nm
	Blue (B)	460~490nm
	Green (G)	510~550nm
Nosepiece	Quintuple nosepiece; Ball-bearing with anti-fungus treatment	
Focusing	Coaxial coarse and fine focusing; with tension adjustment and upper limit stop; Fine adjustment graduation: 2μm	
Stage	Glass rotundity stage overall size: outer φ118mm, inner φ 68mm	
	Petri dish holder 1	Inside locating slot size: 86mm×129.5mm, suitable for circular culture dish φ90mm
	Petri dish holder 2	Inside locating slot size: 34mm×77.5mm, suitable for circular culture dish φ 68.5mm
	Petri dish holder 3	Inside locating slot size: 57mm×82mm, suitable for circular culture dish φ 60mm
	Petri dish holder 4	Inside locating slot size: 29mm×77.5mm, suitable for circular culture dish φ 35mm
Transmitted Illumination	White LED lamp with brightness adjustable	
	Push-pull type condenser, working distance 55mm	
	Green filter	
Fluorescence Shield	110 mm×70 mm	
Camera Port	Built-in 0.75X C-mount adapter	

Metallurgical Microscope

MSC-M4XC



Specification

Model	MSC-M4XC
Optics	Finite Distance Optical System
Observation Tubes	Tilting binocular,interpupillary 55-75mm
Viewing Head	Siedentopf head,inclined at 30°
Optical Coating	Transmittance ≥ 95%
Eyepiece	WF10X/18mm,with scale of cross hair
Objective	PL L10X/0.25 LWD 8.9mm
	PL L20X/0.40 LWD 3.75mm
	PL L40X/0.60 LWD 2.69mm
	SPL 100X/0.90 LWD 0.44mm
	*PL L50X/0.70 LWD 2.02mm
	*PL L60X/0.75 LWD 1.34mm
	*PL L80X/0.80 LWD 0.96mm
	*PL L100X/0.85 LWD 0.4mm
Nosepiece	Backward quadruple /Backward *Quintuple
Stage	Double layer mechanical stage 180×150mm, moving range 15mm×15mm
Focusing	Coaxial coarse and fine adjustment, fine division 2um
*Software	*Grain size analysis software
Illumination System	6V/20W halogen light, brightness adjustable
	Polarizer and analyzer
	Green, blue, yellow filter
Electricity	100-240V AC,50/60Hz
Package Dimension (W*D*H) (mm)	400×300×450
Gross Weight (Kg)	11
*Optional	Photo/Video attachment; Micrometer scale 0.01mm; Fluorescent attachment
*Optional Configuration	

Metallurgical Microscope

MSC-M31J

- Quadruple nosepiece
- Wide field WF10X/ F.N.22 mm eyepiece
- Abbe N.A.1.25 condenser with Iris diaphragm
- With epi-illumination system and transmitted illumination

Features

- Supports polarizing observation.
- Long working distance plan objectives.
- High-resolution and high-contrast imaging.
- Wide field eyepieces with F.N. 22mm for a flat and comfortable view.

Application

The metallurgical microscope is primarily used in manufacturing fields such as semiconductors, FPD, circuit boards, metallic materials, and precision tools, and is suitable for teaching and research.

Specification

Model	MSC-M31J
Optics	Infinity optical system
Observation Tube	Tilting trinocular, Interpupillary 55~75mm
Viewing Head	Siedentopf head, inclined at 30°
Eyepiece	Wide field WF10X/ F.N.22 mm
Objectives	Long working distance plan objectives L Plan 5X/0.12, working distance 23.6 mm
	Long working distance plan objectives L Plan 10X/0.25, working distance 17.7 mm
	Long working distance plan objectives L Plan 20X/0.40, working distance 10.4 mm
	Long working distance plan objectives L Plan 50X/0.55, working distance 7 mm
	Long working distance plan objectives L Plan 100X/0.8, working distance 3.2 mm (optional)
Nosepiece	Inward-facing quadruple nosepiece
Stage	Double-layer mechanical stage, Size: 210×140mm, Moving range:75×50mm
Condenser	Abbe N.A.1.25 condenser with Iris diaphragm, height adjustable
Focusing	Coaxial coarse and fine adjustment, with locking and limit device, fine division 2μm, coarse stroke 40mm per rotation, fine stroke 0.2mm per rotation, focusing range 24mm
Epi-illumination System	Kohler illumination with filters including green, blue, yellow and gross glass
Transmitted Illumination	Abbe condenser N.A.1.25
	White LED with adjustable brightness

Metallurgical Microscope

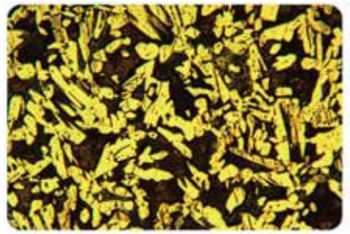
MSC-M60X

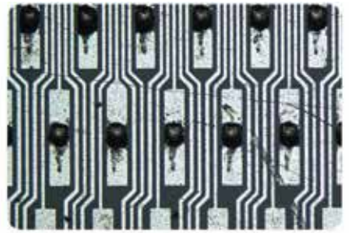
- Large field WF10X/FN 22 eyepiece, with adjustable diopter
- Inward-facing Quintuple Nosepiece
- With ECO automatic light-off and voice broadcast function
- With aperture diaphragm, field diaphragm, and filter holder

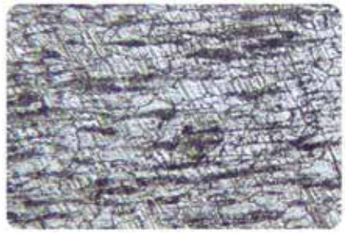
Features

- Infinity-corrected optical system integrated with high-definition LED reflected illumination.
- Full-spectrum white light source with an ultra-long lifespan and constant color temperature.
- Supports bright field and polarizing observation, suitable for analyzing large metallic specimens.

Sample Images







Specification

Model	MSC-M60X
Main Frame	Infinity-corrected optical system, with ECO automatic light-off and voice broadcast function
Observation Tube	Fixed Trinocular head with high eye point, Interpupillary 50~75mm, Light split: 100/0 and 0/100
Viewing Head	Siedentopf head, inclined at 45°
Eyepiece	Large field WF10X / FN 22, with adjustable diopter
Objectives	Semi-apochromatic brightfield metallurgical objective Plan Fluor EPI 5X/0.15, working distance 20 mm
	Semi-apochromatic brightfield metallurgical objective Plan Fluor EPI 10X/0.3, working distance 11 mm
	Semi-apochromatic brightfield metallurgical objective L Plan 20X/0.45, working distance 3 mm
	Semi-apochromatic brightfield metallurgical objective L Plan 50X/0.8, working distance 1 mm
Nosepiece	Inward-facing Quintuple Nosepiece; Ball-bearing positioning; Anti-fungus treatment.
Stage	X-Y mechanical metallographic stage; With water droplet plate;
Focusing	Coaxial coarse and fine adjustment, with locking and limit device, low-position coaxial focusing knob, fine division 2μm
Epi-illumination System	3W full-spectrum white LED, continuously adjustable brightness With polarization kit for polarized light observation With aperture diaphragm, field diaphragm, and filter holder

Polarizing Microscope

MSC-P20M

- Eyepiece: Wide-field WF10X (φ18mm)
- Inward-facing Quadruple Nosepiece
- Binocular/Trinocular (optional), inclined at 30°
- Abbe Condenser, N.A. 1.25, Rack & pinion vertical adjustable
- 6V/20W halogen transmitted illumination with adjustable brightness

Features

- Equipped with wide-field eyepieces and achromatic objectives for a broad and sharp field of view.
- Coaxial coarse and fine focusing mechanism with tension adjustment and limit locking device; fine focusing graduation: 2μm.
- 6V/20W halogen transmitted illumination with adjustable brightness.

Specification

Model	MSC-P20M
Eyepiece	Wide-field WF10X (ϕ 18mm)
Objective	Achromatic objective 4X/0.10
	Achromatic objective 10X/0.25
	Achromatic objective 40X/0.65 (Spring)
	Achromatic objective 100X/1.25 (Spring, Oil)
Viewing Head	Binocular/Trinocular (optional), inclined at 30°
Analyzer	Sliding
Focusing System	Coaxial coarse and fine focusing mechanism with tension adjustment and limit locking device; fine focusing graduation: 2μm
Nosepiece	Inward-facing Quadruple Nosepiece; Ball-bearing positioning
Stage	Rotating stage (ϕ 120mm)
Condenser	Abbe Condenser, N.A.1.25, Rack & pinion vertical adjustable
Filter	Blue filter
	Frosted glass
Polarizer	360° rotatable
Collector	Applicable for halogen lamp illumination
Illumination	6V 20W Halogen lamp; Adjustable brightness

Polarizing Microscope

MSC-P41M

- Eyepiece: WF10X / 22mm; Reticule eyepiece 10X / 22mm
- Abbe Condenser, N.A. 1.25
- Inward-facing Quadruple Nosepiece
- Adopts infinity optical system and modular functional design
- With epi-illumination system and transmitted illumination

Features

- Adopts infinity optical system and modular functional design.
- Equipped with infinity-corrected, strain-free, long working distance plan objectives.
- Wide-field plan eyepieces: field diameter Φ22mm.
- Coaxial coarse and fine focusing mechanism with adjustable coarse tension and limit locking device; fine focusing graduation: 2μm.
- Polarizing observation unit can be moved in or out of the light path; both polarizer and analyzer are 360° rotatable.
- Rotatable stage with 360° graduations, 6' vernier scale, adjustable center, and locking device; stage vertical effective stroke up to 30mm.
- Wide-range power supply; 6V/30W halogen illumination with adjustable brightness.
- Trinocular tube allows free switching between visual observation and photomicrography; 100% light split for imaging, ideal for low-light microscopic image capture.

Application

- The microscope is widely applied in research and inspection across fields such as geology, chemical engineering, medicine, and pharmaceuticals. It is also capable of crystal phase observation for liquid polymer materials, biopolymers, and liquid crystal materials, making it an ideal instrument for research and teaching in scientific research institutions and universities.

Specification

Model	MSC-P41M
Optics	Infinity optical system
Observation Tube	Tilting trinocular, Trinocular split ratio 100:0 or 0:100
Viewing Head	Siedentopf head, inclined at 30°
Eyepiece	WF10X / 22mm
	Reticule eyepiece 10X / 22mm (Graduation: 0.1mm/div.)
Objective	Infinity objective lens PL L5X/0.12, working distance: 26.1mm
	Polarizing objective lens 10X
	Polarizing objective lens 20X
	Polarizing objective lens 60X
Nosepiece	Inward-facing Quadruple Nosepiece; Ball-bearing positioning
Focusing	Coaxial coarse and fine focusing mechanism with adjustable coarse tension and limit locking device; fine focusing graduation: 2μm
Stage	Mechanical X-Y Rotating Stage; Diameter: Φ150mm; 360° graduations; Vernier scale 6'; Center-adjustable with locking device
Epi-illumination System	6V 30W Halogen lamp, with adjustable brightness.
	Built-in field and aperture diaphragms
	Filter conversion device (Yellow, Blue, Green, and Ground Glass)
	Analyzer: 360° rotatable with scale and fine vernier
	Polarizer: 360° rotatable
Intermediate Tube	Push-in Bertrand Lens, center-adjustable
	Compensators: Gypsum (λ), Mica (1/4λ), and Quartz Wedge
Transmitted Illumination	6V 30W Halogen lamp, brightness adjustable, lamp center adjustable
	Abbe Condenser, N.A. 1.25, Height-adjustable
	Blue filter
	Frosted glass
	Polarizer: 360° rotatable with 4 readings (0°, 90°, 180°, 270°)

Stereoscopic Microscope

MSC-ST45 MSC-ST45T MSC-ST7045 MSC-ST7045T

Specifications

Model	MSC-ST45	MSC-ST45T	MSC-ST7045	MSC-ST7045T
Optics	Finite Distance Optical System		Finite Distance Optical System	
Magnification	Zoom objective 7X-45X		Zoom objective 6.7X-45X	
Observation Tubes	Interpupillary distance adjustment: 54-76mm; Diopter adjustment: ±5 diopters		Interpupillary distance adjustment:54-75mm；Diopter adjustment:±5 diopters	
Viewing Head	Binocular head,inclined at 45°	Trinocular head,inclined at 45°	Binocular head，inclined at 45°	Trinocular head，inclined at 45°
Optical Coating	Transmittance ≥ 95%		Transmittance ≥ 95%	Transmittance ≥ 95%
Eyepiece	WF10X/20mm high-eyepoint, wide-field; Convenient for observers wearing glasses		WF10X/22mm high-eyepoint, wide-field; Convenient for observers wearing glasses	
	*Optional eyepiece15X/15mm,20X/10mm,25X/9mm,30X/8mm		*Optional eyepiece15X/16mm，20X/12mm，25X/9mm，30X/8mm	
Objective	0.7X-4.5X stereo zoom; Zoom ratio:6.4:1		0.67X-4.5X stereo zoom; Zoom ratio:6.7:1	
	*Aux lens:0.5X,0.7X,0.75X,1.5X,2X		*Aux lens：0.5X，2X	
Focusing	Focusing mount with vertical working distance 50mm		Focusing track mount with vertical working distance 104mm	
Stand	Vertical post: 240mm ; Diameter: φ32mm; With φ95mm B/W plastic & Perspex plate and paired clips; Base size:200×255×60mm		Track stand Vertical height：300mm；Mounting size：φ76mm；Focusing distance：106mm；With φ95mm B/W plastic & Perspex plate and paired clips；Base size：205×275×40mm	
Illumination	Transmitted and reflected LED illumination		Top and bottom LED illumination with an independent control；Input power：110v~240v	
C-Mount	1X C-Mount; *0.5X C-Mount; *0.3X C-Mount		MSC 1X C-Mount；*MSC 0.5X C-Mount；	
Electricity	100-240V AC,50/60Hz		100-240V AC,50/60Hz	
Package Dimension (W*D*H) (mm)	520*290*390	510*280*390	510*360*300	530*330*420
Gross Weight (Kg)	7	6.7	9	9
*Optional	MSC-ST45T: microscope camera (Standard imaging software) / Win 10 Pad / Digital display		3.35X-270X with optional eyepieces and objectives	
Notes: 3.5X-270X with optional eyepieces and objectives				
*Optional Configuration				

Stereoscopic Microscope

MSC-ST830

Features

- High performance continuous haploid visual microscope with doubling ratio of 1:8.3.
- The whole machine adopts modular structure, can easily access to photography, camera, coaxial lighting and other functions in the optical road, support the series of accessories, but also connect digital camera, facilitate on-site shooting.
- Non-coaxial image technique improves the edge clarity of the field and strong three-dimensional sense, which has good clear effect on observing bright background objects.
- Comfortable to use, large working platform, convenient operation and reliable performance.

Application

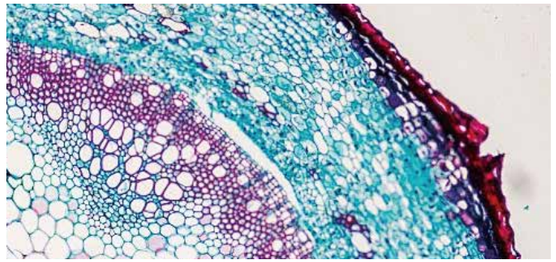
It can be widely used in medical and health care, agriculture and forestry geology, electronic precision. machinery and other industries and departments.

Specification

Model	MSC-ST830
Magnification	Zoom objective 6X-50X
Observation Tubes	Tilting Binocular, 360° rotatable, can be locked in any position desired; Interpupillary distance adjustment:48-75mm; Diopter adjustment:±5diopters
Viewing Head	Siedentopf head, Inclined at 45°
Eyepiece	WF10X/22mm high-eye point, wide-field; Convenient for observers wearing glasses
Objective	0.6X-5X stereo zoom; Zoom Ratio1:8.3
Focusing	Focusing track mount with vertical working distance 104mm
Working Distance	95mm
Illumination	Upper light source: halogen lamp;
	Lower light source:5W fluorescent lamp.
C-Mount	Three vision road annex
	SZM 1X C-Mount; *SZM 0.5X C-Mount; *SZM 0.3X C-Mount
Package Dimension (W*D*H) (mm)	390*350*500
Gross Weight (Kg)	6.6
*Optional configuration	

Teaching Microscope

MSC-T08

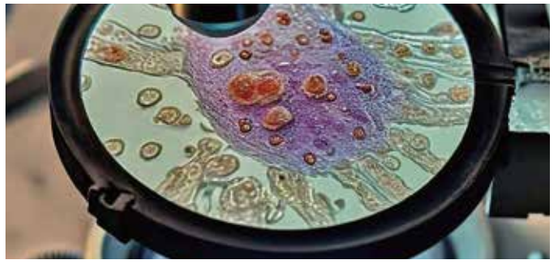


Specification

Model	MSC-T08
Optics	Finite Distance Optical System
Observation Tubes	Monocular vertical tube
Optical Coating	Transmittance ≥ 95%
Eyepiece	WF10× *WF16
Objective	Achromatic objective:4X,10X,40X,100X
Nosepiece	Quadruple nosepiece
Carrier platform	double-layer mobile platform, platform size: 105 × 115mm, moving range: 60 × 20mm
Condenser	Abbe condenser N.A. 1.25
Focusing system	Coarse and micro coaxial focusing, micro grid value of 0.01mm, focusing range of 20mm
Illumination	LED illumination,brightness adjustable
Electricity	100-240V AC,50/60Hz
Package Dimension (W*D*H)(mm)	340*240*470
G.W.(kg)	4.1

Teaching Microscope

MSC-T08B



Specification

Model	MSC-T08B
Optics	Finite Distance Optical System
Observation Tubes	Siedentopf binocular head
Optical Coating	Transmittance ≥ 95%
Eyepiece	WF10× *WF16
Objective	Achromatic objective:4X,10X,40X,100X
Nosepiece	Quadruple nosepiece
Carrier platform	double-layer mobile platform, platform size: 105 × 115mm, moving range: 60 × 20mm
Condenser	Abbe condenser N.A. 1.25
Focusing system	Coarse and micro coaxial focusing, micro grid value of 0.01mm, focusing range of 20mm
Illumination	LED illumination,brightness adjustable
Electricity	100-240V AC,50/60Hz
Package Dimension (W*D*H)(mm)	340*280*450
G.W.(kg)	4.2

DC series USB3.0 CMOS camera

DC500 DC630 DC830 DC1200A DC1200B DC2000 DC2000B

Description

The DSOEC camera system adopts Sony series CMOS sensor, adopts double-layer noise reduction technology, and has high sensitivity, low noise and ultra-high frame rate.

- DC series cameras integrate 12-bit ultra-fine hardware image signal processor video streaming engine; It realizes hardware demosaic adjustment, auto exposure, gain adjustment, one-click white balance, image chromaticity adjustment, saturation adjustment, gamma correction, brightness adjustment, contrast adjustment, etc. through this HISPVP. HISPVP transfers the traditional processing that should be processed by the computer CPU to the hardware processing, which greatly improves the transmission speed of the camera and reduces the occupancy rate of the CPU.
- Use USB3.0 data transmission technology to realize data transmission, fast and stable transmission.
- The DC series cameras can be used to capture brightfield or low light or fluorescence lightfield microscopy images.

Specification

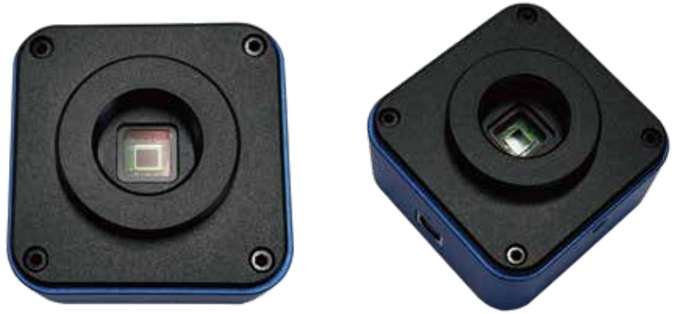
Model	DC500 DC630 DC830 DC1200A DC1200B DC2000 DC2000B
Hardware Configuration	
Spectral Response Range	380-650nm (with IR cut filter)
White Balance	ROI white balance/manual Temp-Tint adjustment
Color Reproduction Technology	Ultra-FineTM hardware ISP video processing engine
Capture & Control API	Native C/C++, C#/VB.Net, directshow, twain and labview
Recording Method	Images and videos
Cooling Method*	Natural cooling
Camera Work Environment	
Working Temperature (℃)	-10~ 50
Storage Temperature (℃)	-20~ 60
Working Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	The camera is powered via the USB interface
Software Operating Environment	
Operating System	Microsoft® Windows® XP/ Vista / 7 / 8 /10 (32 & 64 bit)
Computer Configuration	CPU:Intel Core 2 2.8GHz or higher
	Memory: 2GB or greater
	USB interface: USB3.0 high-speed interface
	(recommended) or USB2.0 interface
	Display: 20" or above (recommended high color gamut
	display with a resolution of 22 inches or above and a
	resolution of 1920 × 1080 or above)
	CD-ROM

Specification

Model	Sensor model and size	Pixel (μm)	G light sensitivity Dark current	FPS/Resolution	Sampling average	Exposure time
DC500	5.1M/MT9P006 1/2.5" (5.70x4.28)	2.2x2.2	1.76v/lux-sec 67.74dB38.5dB	14.0@2592x1944 29.4@1280x960 103.1@640x480	1x1 2x2 4x4	0.1ms~2s
DC630	6.3M/IMX178 1/1.8" (7.37x4.92)	2.4x2.4	425mv with 1/30s 0.15mv with 1/30s	30@3072 x2048 38@1536x 1024	1x1 2x2	0.1ms~15s
DC830	8.3M/IMX334 1/1.8"(7.68x4.32)	2.0x2.0	505mv with 1/30s 0.1mv with 1/30s	35@3840x2160 60@1920x1080	1x1 2x2	0.02ms~15s
DC1200A	12M/IMX226(C) 1/1.7"(7.40x5.55)	1.85x1.85	280mv with 1/30s 0.1mv with 1/30s	25@4000x3000 50@2048x1080	1x1 2x2	0.1ms~15s
DC1200B	12M/IMX577(C) 1/2"(6.29x4.71)	1.55x1.55	250mv with 1/30s 0.25mv with 1/30s	30@4056x3040 60@2028x1520 120@1014x760	1x1 2x2 4x4	0.1ms~5s
DC2000	20M/IMX183 1 "(13.06x8.76)	2.4 x2.4	462mv with 1/30s 0.21mv with 1/30s	15@5440x3648 50@2736x1824 60@1824x1216	1x1 2x2 3x3	0.1ms~15s
DC2000B	20M/AR2020(C) 1/1.8"(7.17x5.38)	1.4x1.4	8.4 ke-/lux.sec	20@5120x3840 45@2560x1920	1x1 2x2	0.2ms~15s

USB2.0 CMOS Camera

EC530



Description

- The camera has high sensitivity, low noise and high frame rate; automatic setting of exposure, brightness, white balance, manual setting of exposure, gain, noise reduction, gamma, new generation ISP4.0 color restoration algorithm, and built-in 3D noise reduction.
- USB2.0 data transmission technology is used to achieve fast and stable data transmission.

Specification

Model	Sensor model and size	Pixel (μm)	FPS/Resolution	Sampling Average	Exposure Time
EC530	5.0M/SC535H 1/2.8′	2x2	30.0@2592x1944	1x1	1ms~1s

Specification

Model	EC530
Hardware Configuration	
Spectral Response Range	400-1100nm
White Balance	Automatic/manual white balance adjustment
Color Reproduction Technology	ISP video processing engine
Recording Method	Images and videos
Cooling Method*	Natural cooling
Camera Working Environment	
Working Temperature	-10~ 50℃
Storage Temperature	-20~ 60℃
Working Humidity	30~80% RH
Storage Humidity	10~60% RH
Power Supply	The camera is powered via the USB port
Software Operating Environment	
Operating System	Microsoft® Windows®XP/ Vista / 7 / 8 /10 (32 & 64 bits)
Computer Configuration	CPU: Intel Core 2 2.8GHz or higher
	Memory: 2GB or more
	USB interface: USB3.0 high-speed interface (recommended) or USB2.0 interface
	Monitor: 20″ or above
	(Recommended 22″ or above with a resolution of 1920×1080 or above and a high color gamut monitor)
	CD-ROM

10.1-inch Display Screen

Accessories

Description

It has high screen resolution and functions such as taking photos, video recording, measuring, and WIFI wireless display, making it easy to use.

Features

High definition: It has high resolution and 5 million effective pixels to ensure that the observer can clearly see the details of the sample.

Large display area: 10.1-inch display area so that the observer can see the entire sample area.

Powerful functions: It not only has the basic functions of taking photos, recording videos, measuring, and WIFI wireless display, but also has storage functions and image quality adjustments.

Specification

Product Name	10.1-inch integrated display screen
Sensor	SONY IMX335, 5M, 1/2.8 inch
Effective Pixel	5 million
Resolution	1200*1920 IPS HD
Output Interface	USB2.0*3, HDMI (USB connected to the computer can output synchronously with the screen)
Pixel Size	2μm*2μm
Electricity	DC-12V/2A
Basic Function	Taking photos, video recording, measurement, WIFI wireless
Image Quality Adjustment	display (Optional function: display on screen simultaneously) Exposure, color temperature, white balance
Camera	Mirroring, image freezing, flipping, wide dynamic range, zoom in, zoom out
Grid Line	Define the color and thickness of horizontal and vertical lines
Storage	Instant photography, video recording, image preview, dynamic comparison
Dimension	241.1*152.35*65.2mm
Net Weight	0.7kg
Standard Accessory	DC-12V/1A power supply

11.6-inch Tablet

Accessories

Specification

Product Name	11.6-inch Tablet
Basic System	
CPU	Intel® Celeron® Processor N100 (Turbo Frequency up to 3.4GHz)
RAM	8GB DDR5
Storage	128GB SSD (Standard)
Operating System	Windows 11 64-bit Enterprise
Cooling Method	Active cooling with silent fan
Display	
Display Size	11.6-inch
Resolution	1920 × 1080
Brightness	220cd/m²
Contrast Ratio	1000:1
Backlight Lifespan	> 30,000 hours
Touch Screen	
Touch Type	Capacitive multi-touch
Transmittance	85%
Environment	
Operating Temperature	0°C to 50°C (Wide temperature -40°C to 70°C optional)
Storage Temperature	-10°C to 60°C (10% to 90% RH, non-condensing)
Protection Rating	IP65 (Front Panel)
Sensor	
Optical Format	1/2.3-inch
Effective Pixels	4672(H)×3500(V), 16.35 MP
Pixel Size	1.34μm(H)×1.34μm(V)
Frame Rate	60Hz (Max.)
Shutter Type	Rolling shutter
I/O Interface	
Display Output	1×HDMI 2.0
USB	3×USB 3.0
LAN	1×10/100/1000Mbps Ethernet
Wireless Communication	
WLAN	Dual-band WiFi 6, supports 802.11 a/b/g/n/ac protocols
Bluetooth	Bluetooth 4.2
Power Supply	
Power Input	12V/5A DC
Power-on Mode	Power button / Auto power-on (Power-on after AC loss)
Physical Characteristics	
Dimensions	180×280 ×13.8 mm
Surface Treatment	Aluminum alloy

10.5-inch Tablet Camera

Accessories

Description

It has a 10.5-inch high-definition touch screen with a better field of view, and a built-in 1/2 target area 4K camera, the details are clearly visible.

Features

Smart tablet camera with Android 11 system.

10.5-inch 3:2 high-definition screen, better field of view.

Built-in 1/2 target surface 4K camera, the details are clearly visible.

Rich external interfaces for easy use.

Built-in audio entertainment system, which is both industrial equipment and entertainment equipment.

WIFI6 adaptation, a good helper for interactive teaching.

Specification

Product Name	10.5-inch Tablet Camera
Sensor Size	1/2 inch sensor
Effective Pixel	8 million pixels, 4K
Display	10.5-inch high-definition full-lamination touch screen
Operating System	Android 11 version
Wifi	2.4GHz/5GHz dual-band WIFI supports WIFI6
Bluetooth	Bluetooth 5.0
Output Interface	USB3.0*2, USB2.0*1, HDMI, Gigabit Ethernet port
Pixel Size	2.0um*2.0um
Electricity	DC-12V/2A
Basic Function	Android interaction, seye2.0 measurement software
Image Quality Adjustment	Brightness, contrast, saturation, color temperature
Camera function	Mirroring, flipping, freezing, black and white
UI interface	Support full mouse humanized operation and touch operation
Image & Video	Support 4K photo taking and 1080P video recording
Storage	Instant photography, video recording, and image preview
Labeling Function	Point coordinates, crosshairs, coordinate systems, text annotations
Length measurement	Straight line length, polyline length, curve length, parallel line distance, point line distance
Geometric Measurement	Length of line segment, fixed circle with radius, fixed circle with two points, fixed circle with three points, concentric circle, fixed circle with radius, fixed circle with two points, fixed circle with three points.
Geometric Area Measurement	Polygons, rectangles
Measurement System	Measurement software
External Dimension	238.00*51.00*206.00mm
Net Weight	0.6kg
Standard Accessory	DC-12V/2A power supply

Microscope Camera

CAM-D50

Features

5 Megapixel cost-effective camera;

Built-in 32M cache, good stability;

Accurate color reproduction;

Description

- CAM-D50 optimizes white balance effect and accurately restores colors. The camera has an additional 32MB image cache, and the transmission speed and stability are greatly improved compared to traditional USB2.0 cameras.

Specification

Model	CAM-D50
Effective Pixels	5 Million
Resolution	2592 × 1944
Chip Size	1/2.5"
Pixel Size	2.2μm×2.2μm
Resolution and Frame Rate	2592×1944 7 frames/second
	2048×1536(ROI) 10.4 frames/second
	1920×1080(ROI) 15.4 frames/second
	1280×960(SUM) 17.2 frames/second
	1280×960(BIN) 17.2 frames/second
	640×480(SUM) 26.7 frames/second
	640×480(BIN) 26.7 frames/second
	Any Size ROI
Scanning Method	Progressive scan / Continuous output
Shutter Type	Electronic rolling shutter
Exposure Time	59μs - 3s
Effective Gain	1x-8x
Spectral Response	380nm~650nm
Trigger Mode	Soft trigger
A/D Conversion	8Bit
Exposure Function	Manual exposure / Automatic exposure / Area exposure
White Balance	Auto white balance / One-button white balance / Regional white balance
Image Format	TIF, BMP, JPG, RAW
Image Cache	32Mb
Software Interface	DirectShow/TWAIN
Operating System	Windows XP 32Bit; Windows 7/8/10 32/64Bit
Data Interface	USB2.0 B type interface, 480Mb/s
External Dimension	φ76mm×48.7mm

Microscope Camera

CAM-D60

6.3 million high resolution

Features

6.3 million high-resolution camera

High speed and high sensitivity

59 fps at full resolution USB 3.0

Deeply optimized for pathology diagnostic applications

Description

- The CAM-D60 microscope digital camera uses a high-performance imaging chip, specially optimized for microscope shooting scenarios, accurately restoring the fine structure and true color of the sample. It runs smoothly at the full 6.3 million resolution, greatly improving acquisition efficiency.

Specification

Model	CAM-D60
Effective Pixels	6.3 million
Chip Size	1/1.8"
Pixel Size	2.4μm x 2.4 μm
Resolution and Frame Rate	3088 x 2064 @ 59fps
	Any size ROI
Scanning Mode	Progressive scan/continuous output
Shutter Type	Electronic rolling shutter
Exposure Time	8μs-10s
Effective Gain	1-32X
Spectral Response	380nm-650nm
A/D Conversion	10bit
Image Cache	128Mb
Trigger Mode	Soft trigger
Exposure Function	Manual exposure/Automatic exposure/Area exposure
White Balance	Automatic white balance/One-button white balance/Area white balance
Image Format	TIF, BMP, JPG, RAW
Software Interface	DirectShow /TWAIN
Operating System	Win XP 32bit; Win 7/8/10 32/64bit
Data Interface	USB3.0 Type B interface, 5Gb/s
Camera Interface	C-type interface
Working Environment	Temperature: 0-50℃; Humidity: 10%-90%RH (no condensation)
Dimension	76mm (diameter) * 48.27 mm(height)

Microscope Camera

CAM-DX10

Description

The microscope digital camera uses a high-performance imaging chip, which is specially optimized for microscope shooting scenes. It can accurately restore the fine structure and true color of the sample. It uses a USB3.0 data transmission interface and is an ideal tool for application fields such as patho-logical diagnosis, metallographic analysis and stereoscopic observation.

Features

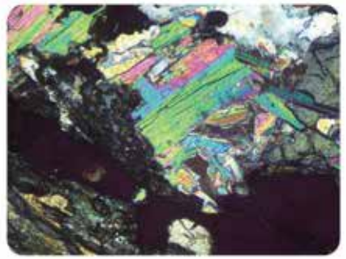
20 megapixels high-resolution camera;

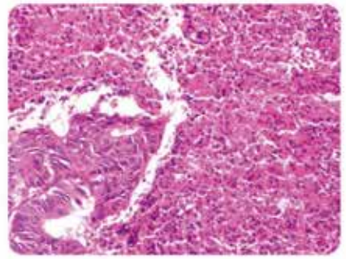
High speed and high sensitivity;

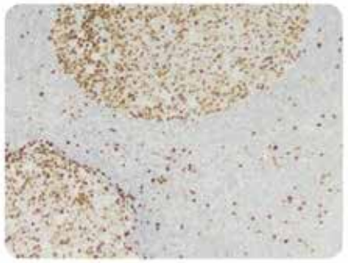
22 frames at full resolution;

Optimized for microscopic imaging;

Pictures taken







Specification

Model	CAM-DX10	
Effective Pixels	20 megapixels	
Chip Size	1"	
Pixel Size	2.4μm×2.4μm	
Resolution and Frame Rate	Resolution	Frame Rate
	5480×3648	22 FPS
	2736×1824	22 FPS
	Any size ROI	
Scanning Mode	Progressive scan/continuous output	
Shutter Type	Electronic rolling shutter	
Exposure Time	12μs-10s	
Effective Gain	1-16X	
Spectral Response	380-650nm	
A/D Conversion	12bit	
Image Cache	128Mb	
Exposure Function	Manual exposure/Automatic exposure/Area exposure	
White Balance	Automatic white balance/One click white balance/Area white balance	
Image Format	TIF, BMP, JPG, RAW	
Software Interface	DirectShow /TWAIN	
Operating System	Windows XP 32bit; Windows 7/8/10 32/64bit;	
Data Interface	USB3.0 B-type interface, 5Gb/s	
Camera Interface	C-type interface	
Power Supply	USB 5V power supply	
Working Environment	Working temperature: 0-50℃;	
	Working humidity: 10%-90%RH (no condensation)	
Dimension	φ76×62mm	

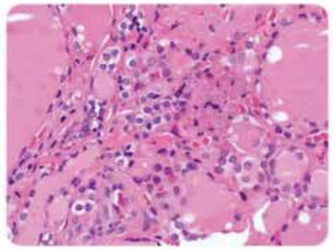
WiFi Camera

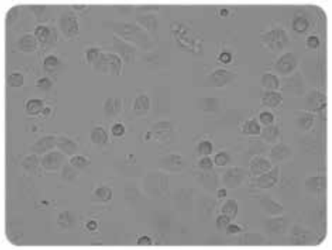
CAM-80W

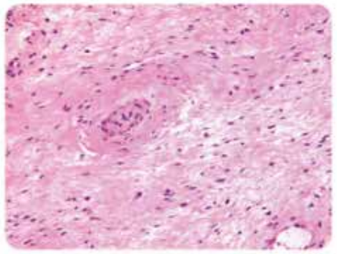
Description

- This is a 4K WIFI/USB/HDMI camera with high resolution and fast transmission speed. Compared with traditional 1080P cameras, the image quality is significantly improved. The diverse interfaces can meet the needs of different scenarios. In particular, the 2.4G/5G WIFI dual-band mode can effectively improve the transmission speed and stability, which is particularly suitable for interactive teaching scenarios.

Photos taken







Specification

Model	CAM-80W
Sensor Size	1/1.8
Pixel Size	2.0×2.0μm
Output Resolution	3840×2160; 1920×1080
Frame Rate	1920×1080@60FPS
Image Storage Method	USB flash drive or computer
Video Recording	1920*1080@30FPS
Exposure Time	0-33MS
Exposure	Automatic and manual, provide target brightness setting
White Balance	Automatic and manual
Parameter Settings	Contrast, saturation, gamma, sharpness, noise reduction, etc.
System Support	Windows/Android/iOS
WiFi Mode	2.4G/5G dual-band
Camera Interface	HDMI/USB/WIFI
Working Temperature	0-60℃
Storage Temperature	-20-85℃
Electricity	Type-C DC 5-12V
External Dimension	85*65*49mm
Weight	0.2kg

Microscope Camera

CAM-X11

21-megapixel ultra-high-resolution microscope camera.

4/3-inch large target chip, large field of view and efficient acquisition

Features

Built-in hardware ISP image processing chip

Excellent detail handling and color reproduction

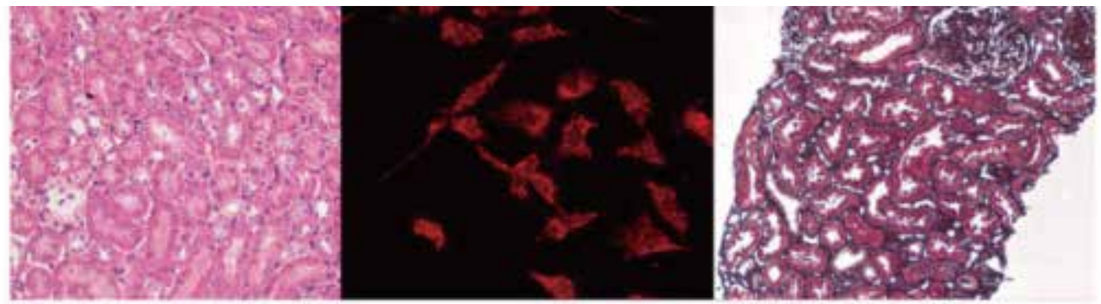
Excellent sensitivity brings excellent fluorescence shooting experience

Efficient data processing, up to 21fps at full resolution

Description

- The CAM-X11 is our company's latest digital microscope camera. It utilizes a high-performance imaging chip and features the latest MS series hardware ISP image processing chip. It is specially optimized for microscope photography, accurately reproducing the fine structure and true color of samples. Hardware acceleration significantly increases the camera's operating speed.

Pictures taken

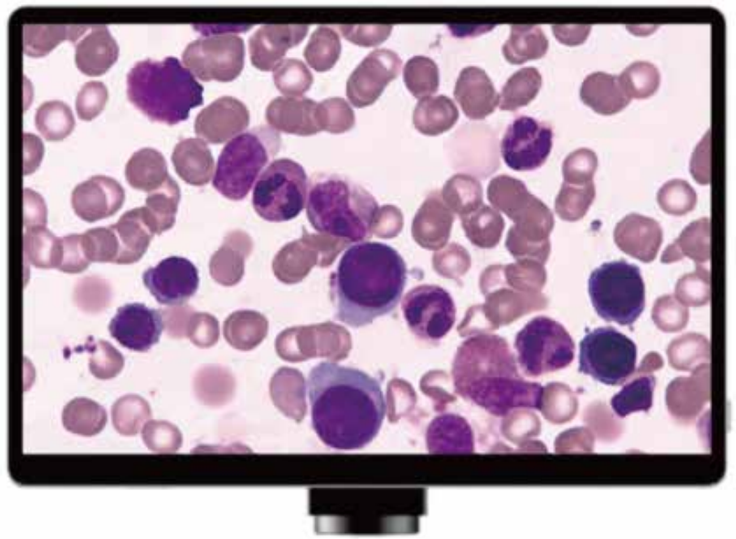


Specification

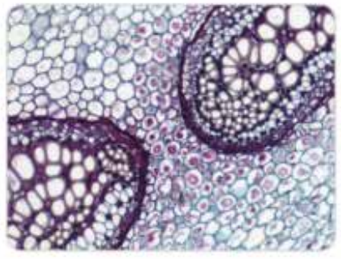
Model	CAM-X11	
Effective Pixels	21 megapixels	
Chip Size	4/3 inch	
Pixel Size	3.3μm×3.3μm	
Resolution and Frame Rate	Resolution	Frame Rate
	5280 x 3956	21FPS
	4096 x 3956	21FPS
	3840x2160(UHD)	21FPS
	2640x1978(sum2)	21FPS
	2640x1730(skip) 95FPS	95FPS
	Any size ROI	
Scanning Mode	Progressive scan/continuous output	
Trigger Mode	Soft trigger	
Exposure Mode	Electronic rolling shutter	
Exposure Time	12μs-30s	
Effective Gain	1-16X	
Spectral Response	380nm-650nm	
A/D Conversion	12bit	
Image Cache	128Mb	
Exposure Function	Manual exposure/Automatic exposure/Area exposure	
White Balance	Manual white balance/One click white balance/Area white balance	
Image Format	TIF, BMP, JPG, RAW	
Software Interface	DirectShow /TWAIN	
Operating System	Windows XP 32bit; Windows 7/8/10 32/64bit;	
Data Interface	USB 3.0 5Gbps B-type interface	
Camera Interface	C-type interface	
Power Supply	USB 5V power supply	
Working Environment	Working temperature: 0-40℃;	
	Working humidity: 10%-90%RH	
	(no condensation)	
Dimension	φ108.5mm×106.5mm×62.5mm	

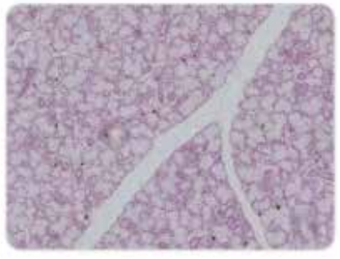
Microscope Camera

CAM-D28A



Pictures taken





Description

- The CAM-D28A all-in-one screen camera is a microscope camera integrated with a tablet computer. It uses a 1/2-inch sensor and can provide 4K high-definition resolution imaging, which is directly displayed on the 10.5-inch touch screen. It supports WiFi and wired network connections and is particularly suitable for application scenarios such as teaching, demonstrations, simple observation, and small laboratories.

Features

Camera and 10.5-inch tablet integrated

4K high-definition imaging with good details

With USB3.0, HDMI, WiFi and other transmission interfaces

Android system, support touch screen control

Specification

Model	CAM-D28A
Sensing Size	1/2 inch sensor
Effective Pixels	4K 3840*2160
Video Recording Function	1920x1080P
Pixel Size	2.0μm*2.0μm
Image Quality Adjustment	Brightness, contrast, saturation, color temperature
Camera Functions	Mirror, flip, freeze, black and white
Storage Function	Instant photo taking, video recording, picture preview
Marking Function	Point coordinates, cross lines, coordinate system, text annotation
Length Measurement	Straight line length, broken line length, curve length, parallel line distance, point line distance
Geometric Measurement	Line Length, Radius-Defined Circle, Two-Point Defined Circle, Three-Point Defined Circle, Concentric Circles
Geometric Area Measurement	Polygons, rectangles
Screen	10.5-inch fully laminated IPS 1920x1080
Software System	Android 11 system
CPU	Quad-core 2.0GHz
Memory Space	2GB RAM, 16G ROM
WiFi	2.4GHz/5GHz dual-band WiFi, supports WiFi6
Bluetooth	Bluetooth 5.0
I/O Interface	USB3.0*2, USB2.0*1, HDMI, RJ-45 Gigabit Ethernet
Interaction Method	Touch screen or mouse control
Power Supply	DC 12V/2A, no built-in power battery
Dimensions	238.00*51.00*206.00mm
Weight	0.6kg