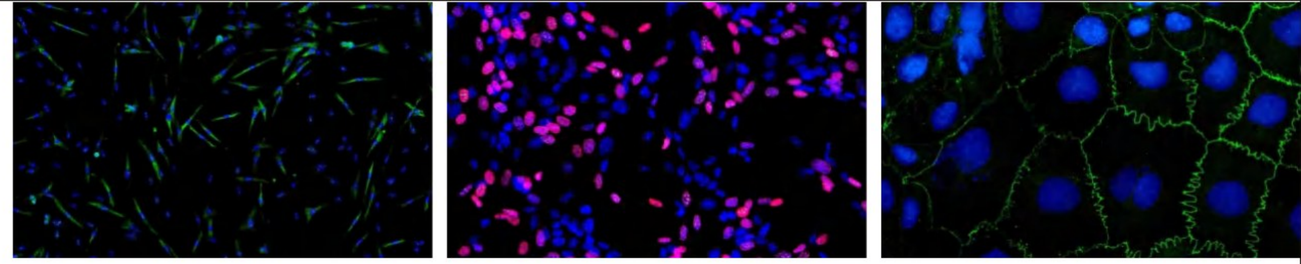
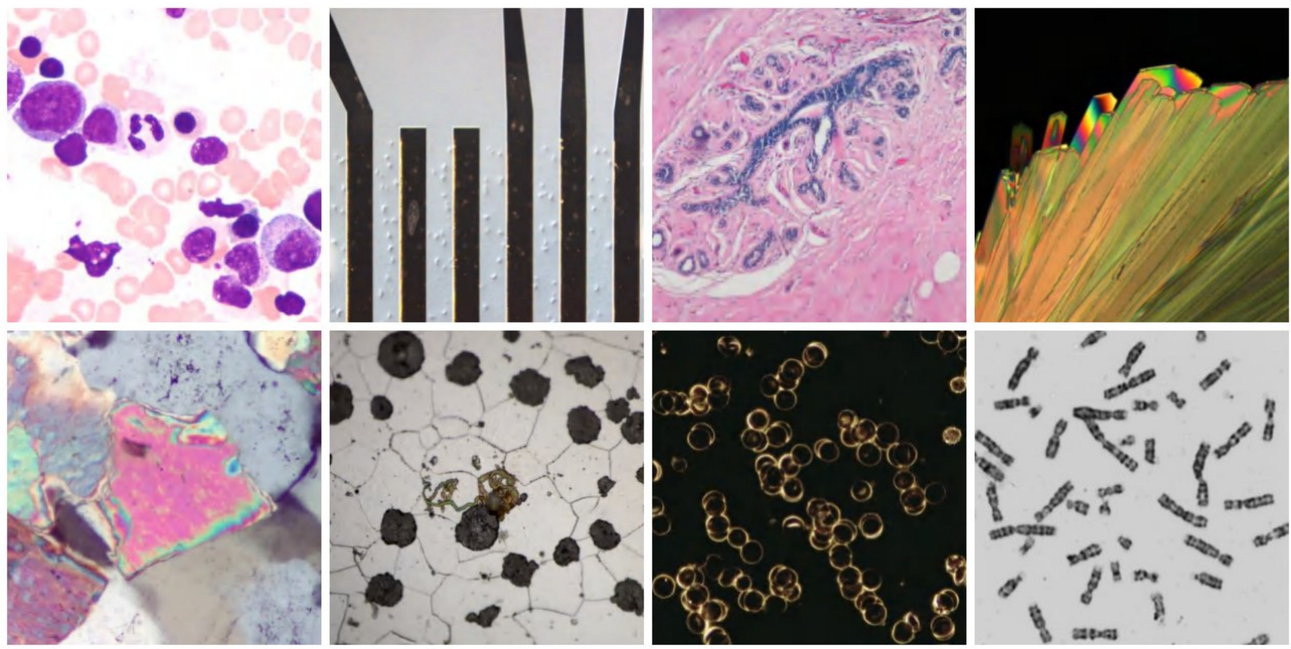


MshOt

Microscope Imaging System Solution Provider



ISO CERTIFICATED 9001:2015

ISO CERTIFICATED 14001

ISO CERTIFICATED 13485

ISO CERTIFICATED 45001

MshOt

Guangzhou Micro-shot Technology Co.,Ltd.

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Guangzhou City China
Telephone: 0086-20-38250606
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Email: sales@mshot.com

GUANGZHOU MICRO-SHOT TECHNOLOGY CO., LTD

Continuous innovation, only for better products and better services

MICRO-SHOT is a Chinese national high-tech enterprise established 21 yeas ago. Brand is MSHOT. It focuses on the research and development, production, and sales of microscopes and its imaging system products, and is committed to the automation, digitization, and intelligence in microscopic imaging. The company gets the National Innovation Fund and is recognized as the microscopic imaging engineering technology research center. MICRO-SHOT has provided products and services to more than 100,000 users worldwide.

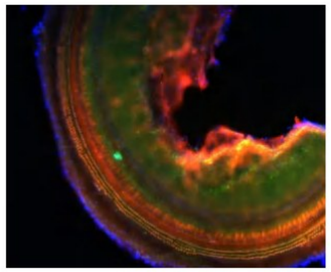
The company has been certified as a contract-abiding and credit-worthy enterprise for 11 consecutive years and has ISO system certifications in quality ISO9001 and medical-device quality management 13485, environmental management 14001, and health and safety management 45001. It has the qualification to produce Class II medical devices and has obtained nearly 100 patents and software copyrights.

Content

Microscope camera MSX11

Features: High resolution

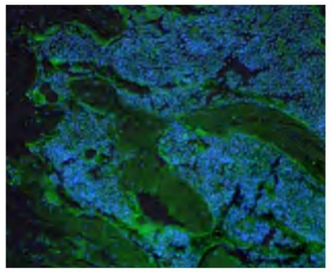
- Real 21 megapixels
- 4/3 inch big area sensor
- True color reproduction
- 21 fps high frame rate



Microscope camera MSX3

Features: High resolution

- 12.5 megapixels resolution
- 1/1.6 inch big area sensor
- Image width and length ratio is 1:1
- 27 fps at full resolution

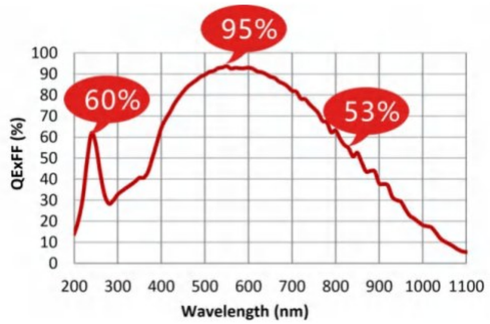


	MSX11	MSX3
Resolution	21.0 megapixels	12.5 megapixels
Sensor size	4/3 inch	1/1.6 inch
Pixel size	3.3 μmx3.3 μm	2.0μmx2.0μm
Frame rate	5280×3956 @ 21fps 2640×1730(skip)@ 95fps	3536×3536 @ 27fps 1768×1768 @ 60fps
Exposure	12μs-30s	100μs-15s
Work mode	Pogressive/ Continours	Progressive/Continous
Shutter	Electrical rolling shutter	Electrical rolling shutter
Gain	1X-16X	1X-15X
AD convert	12bit	12bit
Image cache	128MB	No
Trigger mode	Software trigger	Software trigger
Software port	DirectShow/TWAIN/SDK	DirectX/TWAIN/SDK
Data port	USB3.0 5Gbps B-type	USB3.0 B-type，5Gbps
Working Surrounding	Temperature：0-40°C Humidity：10%-90%RH）	Temperature：0-40°C Humidity：10%-90%RH）

Scientific camera MSH20/MSH12

Features:

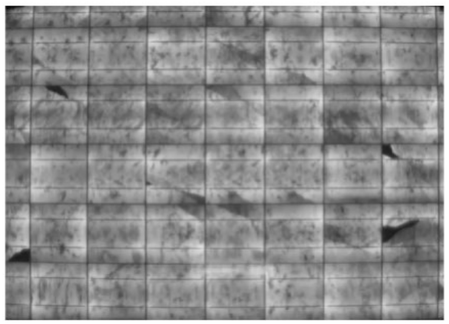
- Back-illuminated sCMOS,Monochrome
- Super high sensitivity, maximum QE 95%
- Semiconductor cooling,ultra-low read noise
- High frame rate over 20 fps at full resolution



NIR Shortwave/UV Camera

Features:

- Optimized for UV or NIR imaging to further enhance results
- Ideal for applications such as vivo imaging, chip or solar panel perspectives,etc



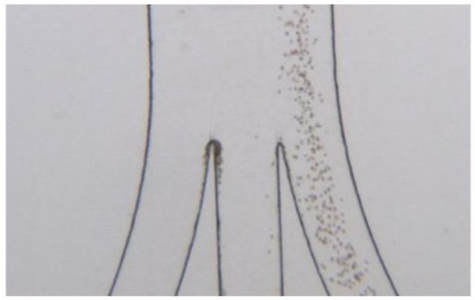
	MSH20	MSH12
Sensor type	Back -illuminated CMOS	
Resolution	4.2 megapixels	
Sensor size	2 inch	1.2 inch
Pixel size	11 μm × 11 μm	6.5 μm × 6.5 μm
Frame rate	2048 × 2048 @ 24fps	2048 × 2048 @ 74fps（11bit）/ @43fps (12bit)
	Any size of ROI	Any size of ROI
Shutter	Electrical（Rolling Shutter）	
Exposure	21μs～20s	12μs～3600s
Full well capacity	93Ke-	55ke-(Low Gain model)
Read-out noise	1.47e-	1.2e-
Dynamic range	>93dB	90.5dB(HDR)
Quantum efficiency	95%@560nm	95%@560nm
Spectral response	200～1300nm	200～1100nm
Cooling function	Optional semiconductor cooling	Semiconductor cooling, 40°C below ambient temperature
Data port	USB3.0 B-type，5Gbps	
Shell size	100 x 100 x 75 mm	

High speed MS16-H

Features:

· Frame rate up to 660 fps to capture dynamic details
· Connect to a 10G network card computer using a 10G Ethernet copper cable
· Better sensitivity, improve imaging under low light illumination

	MS16-H
Resolution	1.6 megapixels
Sensor size	1.1 inch
Pixel size	9.0 μm×9.0 μm
Frame rate	1500×1100 @ 660fps
Exposure	1μs-1153ms
Work mode	Progressive/Continous
Shutter	Electrical shutter
Effective gain	1X-125X
AD convert	12bit
Image cache	256MB
Trigger mode	Continous/software/hardware
Software port	DirectShow/TWAIN/SDK
Data port	10 Gigabit cooper cable，10Gbps
Working surrounding	Temperature：0-50℃
	Humidity：10%-80%RH)
Shell size	64×64×61.7mm



Multi-megapixel camera MSX1

Features:

· 1.0 megapixel, rich in detail and true colors
· USB3.0 high-speed port, built-in ISP and large cache
· Smooth picture, full pixel frame rate up to 36fps

Microscope camera MD60

Features: Excellent image quality

·6.3 megapixels, excellent detail performance
·New ISP processing chip, true color repreduction
·Smooth picture, full pixel frame rate up to 59 fps

Microscope camera MDX10

Features: High resolution

· Super high resolution 20.0 megapixels
· Frame rate 22fps @ 5480 x 3640 resolution
· 128 cache for smooth imaging

HDMI WIFI camera MS80-W

Features:

· 5G high-speed WiFi , take photos with mobile phone/tablet
· Smooth picture, up to 60 fps in HD resolution
· Support HDMI, the resolution can reach 4K standard
· Body with a camera button, which can ve saved to the U disk

Microscope camera MS23

Features: High sensitiity

· Maximum QE gets to 85% @ 500nm
· 1/1.2 inch size of sensor with 5.86 μm big pixel size
· 2.3 megapixels and frame rate 40fps to sure the imaging is smooth
· Good at capturing weak light signal

Microscope camera MD50

Features: Cost-effetive

·Cost-effective, low-cost upgrade for digital imaging
·Optimized for microscopic imaging, up to 5MP
·Frame rate up to 15 fps at full HD resolution

All-in-one camera MD28-A

Features:

· The camera and 10.5-inch tablet are integrated
· 4K HD imaging with good detail
· With USB3.0, HDMI, WiFi and other transmission port
· Android system, support touch screen control

:

:

Inverted LED fluorescence module
Four channels is optional

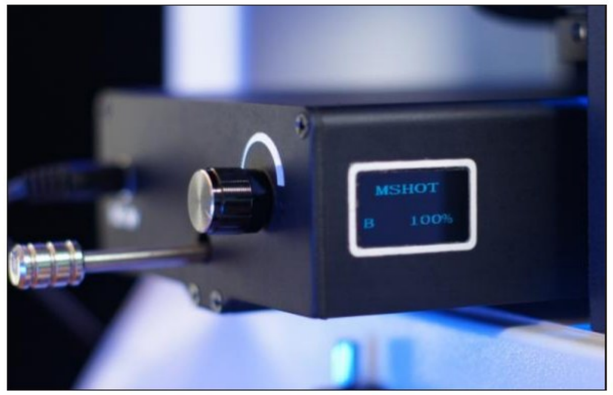
Upright LED fluorescence module
Four chanmels is optional

Stereo LED fluorescence module
Light source and fiter cube linkage

Digital LED fluorescence module

Features:

· Digital display screen, visual brightness and band for easy quantitative analysis
·High adaptability, matching with infinity microscopes of all major brands
. Stepless dlimming, coded adjustment knob with memory function
. Highy integrated, light source, filter block and display are integrated
. Customizable on demand, multiple channels and excitation groups avalable



Filter group	B	B BP ：EX:470/40nm；DM:505nm；EM:530/40nm
		B LP ：EX:475/30nm；DM:500nm；EM:520nmLP
	G	G BP ：EX:530/40nm；DM:565nm；EM:605/55nm
		G LP ：EX:530/40nm；DM:565nm；EM:590nmLP
	U	UV BP：EX: 375/30nm；DM:415nm；EM:460/50nm
		U LP：EX: 355/50nm；DM:400nm；EM:420nmLP
	Y	Y LP：EX: 560/40nm；DM:600nm；EM:610 nmLP
Excitation illuminator		3W LED light source, brightness is adjustable, visual digital display
Observation method		Fluorescence, bright field
Input power		DC 12V2A

Upright module matched items

Brand	Item
Chinese	Infinite optical system upright microscope
World	
A sixtuple turretable fluorescence module	

Inverted module matched items

Brand	Item
Olympus	IX70, IX71, IX73, CKX41, CKX53
Nikon	TS100
Leica	DMIL

Stereo module matched items

Brand	Item
Olympus	SZX7, SZX10, SZX16
Nikon	SMZ800, SMZ1270, SMZ25
Zeiss	SteREO Discovery.V8/V12/V16
Leica	M125, M165, M205C

Sixtuple turretable fluorescence module

Features:

· Research-grade sixtuple turntable fluorescence module, with free choice of excitation cube
· Standardized interface can match LED fluorescent light sources such as MSHOT
· With field diaphragm and aperture diaphragm to meet high-demand observation
· Matches most of the infinity upright microscopes of the four major brands

Simple stereo fluorescence accessory

Features:

· Easy to install, compatible with most stereo microscopes
· BGU and other colors are available, 65mm bandpass emission filter
· Double universal horn lights, single or double color optional

CX33/CX43 insert-type module

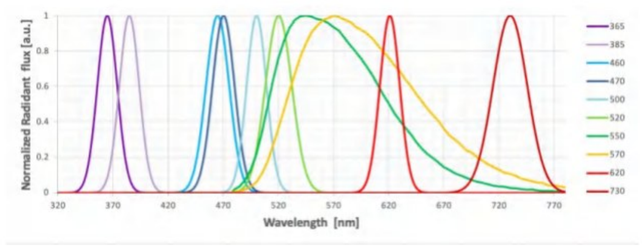
Features:

· Specially customized for CX33/CX43
· LED fluorescent light source, optional BGU single color or BG double pass
· Optional warm color temperature reflected light illumination for metallographic observation

Four individual channels fluorescence LED illuminator MG120

Features:

· 50,000 hours of ultra-long life LED lamp,stable brightness without attenuation
· Intelligent TTL that support software/camera external trigger
· Four channels are controlled individually and can be used immediately and output simultaneously
· High brightness LED array, uniform light spot
· Strong adaptability to major brands of fluorescence microscopes



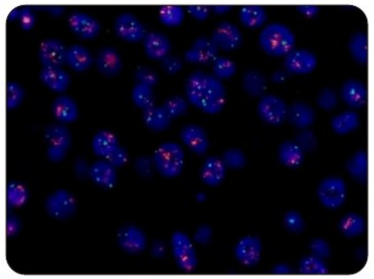
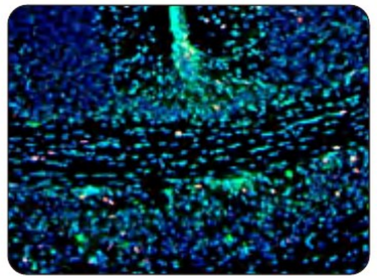
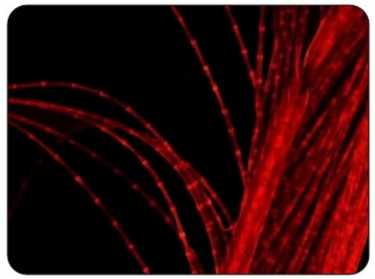
Product specification	
Item No.	MG 120
Output spectral	Standard configuration is 385/460/550/625nm
House adapter	Compatible with four major brands of fluorescence microscopes
Power	72W
Control method	4 individual channels, 0-100% dimming, 1% accuracy
Light memory	4 spectrum bands
Controller	Touch screen control, software/camera external trigger
Host adapter	8P aviation head, with temperature control protection
Cooling method	Forced air cooling
Lighting Angle	7°
Fiber coupler	Liquid optical waveguide 3mm/5mm
LxHxW	Lamp house: 180 × 70 × 168(mm) Controller box: 143 x 110 x 50(mm, LxWxH)

Broad-spectrum fluorescence LED illuminator MG100

Features:

· Wide spectrum, suitable for replacing mercury lamps and halogen lamps
· UV and visible light are independently controlled
· 50,000 hours of ultra-long life LED lamp
· Instant on-off without preheating or cooling waiting
· Adapted to major brands of fluorescence microscopes

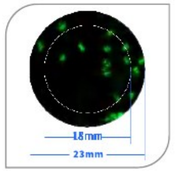
Product specification	
Item No.	MG 100
Output spectral	350-390nm/410-760nm two continuous outputs
House adapter	Compatible with four major brands of fluorescence microscopes
Power	100W
Control method	2 spectral bands individually control, 0-100% dimming, 1% accuracy
Light memory	2 spectrum bands
Controller	Touch screen control
Host adapter	8P aviation head, with temperature control protection
Cooling method	Forced air cooling
Lighting Angle	Straight
Fiber coupler	Liquid optical waveguide 3mm/5mm
LxHxW	Lamp house: 180 × 144 × 122(mm) Controller box: 196 x 137 x 65.5 (mm, LxWxH)

Upright fluorescence microscope MF43-N

The research-grade upright fluorescence microscope MF43-N is equipped with sixtuple epi-fluorescence module and an ultra-long-life LED light source, which can be expanded and upgraded to achieve various methods. The high numerical aperture semi-apochromatic objective lens has clear imaging, especially suitable for FISH fluorescence in situ hybridization and other applications.


High numerical aperture semi-Apochromat objectives



10X/23mm super wide field of view eyepiece


Light intensity management


Expansion capabilities of professional fluorescence


LED fluorescence light source with a lifetime over 10,000 hours


Low hand position high wear resistence stage

Model	MF43-N	
Eyepiece	Wide field 10X/23，diopter is adjustable	
Eyepiece tube	Hinged type trinocular observation，high eyepoint，30° inclination，Pupillary distance adjustment 50-75m	
Objectives	Standard:	Optional:
	Plan semi- achromat objectives 4X	Plan semi- achromat objectives 20X
	Plan semi- achromat objectives 10X	
	Plan semi- achromat objectives 40X	
	Plan semi- achromat objectives 100X	
Epi-illuminating fluorescence system	Broad-spectrum LED light source MG-100(standard)	4 individual channels LED illuminator MG-120(optional)
	MG-100 touch screen controller(standard)	MG-120 touch screen controller(external trigger optional)
	Empty Epi-fluorescence illuminator FL-43(6-hole turnable, standard BGU three-channels , optional YRV, etc.)	
	Excitation cube	Excitation wavelength
	FB-U-M	EX：375/30nm；DM：415nm；EM：460/50nm
	FB-B-M	EX：475/30nm；DM：505nm；EM：530/40nm
	FB-G-M	EX：540/25nm；DM：565nm；EM：605/55nm
Nosepiece	Quintuple objective converter	
Stage	High wear resistance ceramic overlay stage with right hand coaxial low drive control knob	
	Traveling range：80mm×50mm，1mm/unit，accuracy 0.1mm	
Transmitted lighting	Warm white LED, brightness continuously adjustable	
	Abbe Condenser，N.A. 1.1	

DMD structured light illumination fluorescence microscopy

Features:

- Higher Z-axis resolution, low background fluorescence and high resolution
- Commonly used objective magnifications and excitation wavelengths are supported
- The system structure is simple and easy to maintain, and the software is easy to use
- The DMD-SIM module can be adapted to other infinity upright microscope upgrades

Match model	Infinity research-grade upright microscopes, such as Mshot ML51-N and Bx53,etc.
Attachment form	Modular 6-hole fluorescence turret with up to 5 blocks of excitation
Excitation light source	Four-channel light source MG-120, spectral coverage of 385-650nm, wavelength optional
DMD chip	0.45 inches, prismatic array, intrinsic resolution 912×1140
Match objectives	DMD light sectioning with 10X, 20X, 40X, and 100X objectives is supported
Wavelengths	Excitation wavelength 385-650nm
Output interface	HDMI projection, one-click photo reconstruction of the software
Software Features	Four-step phase-shift reconstruction algorithm
	one-click photo reconstruction of the software
	Support Win10 system

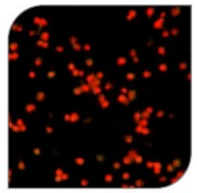
Biological microscope ML51-N

Features:

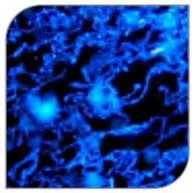
·10X/23mm super large field of view eyepiece and trinocular tube
·High numerical aperture semi-apochromat objectives
·Convenient light intensity manager function
·Low hand position high wear resistance stage

Observation tube	Triple light split high hinged trinocular head，high eyepoint，30° inclination，PD 50-75mm
Eyepiece	Ultra-wide field of view10X/23□ adjustable diopter；10X/25 is optional
Objectives	Plan semi-apochromatic objective 4X
	Plan semi-apochromatic objective 10X
	Plan semi-apochromatic objective40X
	Plan semi-apochromatic objective 100X
	Plan semi-apochromatic objective 20X (optional)
Focusing system	Coarse and fine adjustment knob, 25mm one coarse stage stroke, gradations: 1 μm
Nosepiece	Backward quintuple nosepiece
Stage	High wear resistance ceramic overlay with right hand coaxial low drive control knob
	Moving range: 80(X)mm×50(Y)mm□ accuracy: 0.1mm
Transmitted lighting	Abbe condenser NA1.1，Kohler Lighting
	Warm white LED lamp with light intensity management

Fluorescence microscope MF31



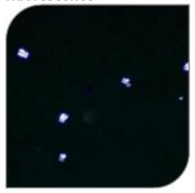
Long life LED fluorescence illuminator



Support brightfield and fluorescence

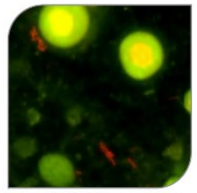
FN22 wide field eyepiece

High transmittance plan achromat objectives

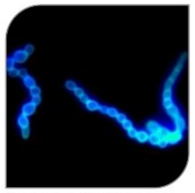


Expandable dark field, polarized ligh and other functions

Fluorescence microscope MF23



Long life LED fluorescence illuminator



Supports brightfield and fluorescence

Infinity plan achromat objectives

Comfortable Ergonomic Design

Optional binoculr/ trinocular

Model	MF31	MF23
Eyepiece	Wide field WF10X/22	Wide field 10X/20
Head	Hinge type , 30° inclined trinocular, pupil distance53-75mm	Hinged type, 30° inclined binocular or trinocular, pupil distance 44-75mm
Objectives	Infinity plan achromat objective 4X	Infinity plan achromat objective 4X
	Infinity plan achromat objective 10X	Infinity plan achromat objective 10X
	Infinity plan achromat objective 40X	Infinity plan achromat objective 40X
	Infinity plan achromat objective 100X	Infinity plan achromat objective 100X
Fluorescence attachment	Excitation cube excitation wavelength	Excitation cube Excitation wavelength
	UV 330-380nm	UV 330-380nm
	B 460-490nm	B 460-490nm
	G 510-550nm	G 510-550nm
Focusing	Fine and coarse adjustment with tension and limited stopper	Fine and coarse adjustment with tension and limit stopper,
	Coarse stroke 40mm/rotation, accuracy 0.2mm, vertical 24mm	accuracy 0.2mm
Nosepiece	Backward quadruple nosepiece	Backward quadruple nosepiece
Stage	Double deck stage 210mmX140mm, Move range 76mmX50mm	Double deck stage 210mmX140mm, Move range：75mmX50mm
Transmitted light	Abbe condenser N.A. 1.25	Abbe condenser N.A. 1.25 can lifted up and down
	White LED, brightness is adjustable	
Camera port	0.5XC	

NEW

Biological microscope ML43

Features:

- Infinity optical system, excellent imaging quality
- Digital display screen and voice control system to grasp the status of the equipment
- ECO Walking Lights Out, with Light Intensity Manager
- 10X/23mm large field of view and quintuple nosepiece
- Support upgrade electrification and fluorescence observation

Optical system	Infinity independent achromatic optics
Lighting system	·Built-in transmissive Kohler illumination ·ECO Man walks the lights off ·Light Intensity manager ·3W LED, brightness is adjustable
Focusing	Coaxial coarse and fine focusing, lifting 25mm, accuracy 2μm
Display screen	Status display with a voice-activated system
Interactive	·USB programmable interface ·USB and module power output
Eyepiece	Large field of view 10X /23mm
Eyepiece tube	Hinged trinocular , 30° inclined, PD 48–75mm, 100/0 or 0/100 light splitting
Nosepiece	Inward quintuple nosepiece
Stage	Short type stage, moving stage d:175*145mm, movement range 80*50mm
Objectives	Plan achromat objectives 4X/10X/40X/100X
Condenser	Abbe conderser, NA 1.2
Observation	Brightfield, simple polarization, fluorescence, phase contrast, darkfield
Size	Length 400× Width 213× Height 406 (unit :mm)

Biological Microscope ML31

Features:

- Infinity optical system with great expansion potential
- 10X/22mm large field of view and high eyepiont eyepiece
- High transmittance plan achromat objective lens
- Expandable dark field ,polarized light and other function
- Long-life LED Kohler lighting system

Optical system	Infinity independent achromatic optics
Lighting system	·Built-in transmissive Kohler illumination ·3W LED light source
Focusing	Coaxial coarse and fine adjustment, coarse stroke 25mm, accuracy 2μm
Eyepiece	Wide field 10X /22mm
Eyepiece head	Hinged trinocular tube, 30° inclined, PD 50–75mm, 30/70 light splitting
Nosepiece	Inward quintuple nosepiece
Stage	Double-deck mechanical, Moving stage:210*140mm, Movement range: 76*50mm
Objectives	Plan achromat objectives 4X/10X/40X/100X
Condenser	Abbe condenser, NA 1.25
Observation	Brightfield, simple polarization, fluorescence, phase contrast, darkfield
Size	Length 400× Width 210× Heigth425 (unit mm)

Biological Microscope ML11

Features:

- ·Compact appearance with comfortable handle design
- ·10X/18mm wide field eyepiece, binocular/trinocular head
- ·Long-life LED transmitted light source with Abbe condenser
- ·Coaxial design of coarse and fine adjustment with limit device
- ·Optional power bank power supply and infinite configuration

Optical system	Limited Optics (Optional Infinite Optical system)
Lighting system	·Built-in simplified transmitted Kohler illumination with no field diaphragm ·3W LED light source
Focusing	Coaxial coarse and fine adjustment, coarse movement stroke 25mm, accuracy 2μm
Eyepiece	WF 10X /18mm (WF10X/20mm for infinite optical system is optional)
Head	30° inclined, hinged trinocular , PD 50–75mm, R:T :80:20
Nosepiece	Quadruple nosepiece with inward tilt
Stage	155*142mm double layer, moving range:76X50mm, accuracy 0.1mm
Objectives	Achromat 4X/10X/40X/100X
Condenser	Abbe condenser, NA 1.25
Observation	Brightfield
Size	Length 354× Width 212× Height 364 (unit mm)

Live-cell Imaging System

Mshot live-cell imaging system MCS11/MCS21/MCS22 greatly simplifies your workflow, and through automated scheduled observation, analysis, and reporting, you can remotely monitor the progress of your cells without entering the clean room or opening the incubator, greatly improving work efficiency and avoiding the risk of disturbing growth and contaminating samples.

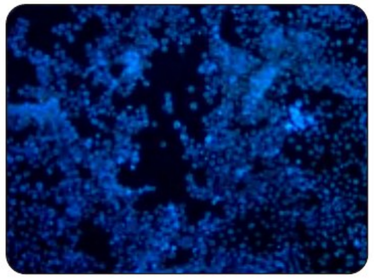
reddot winner 2024

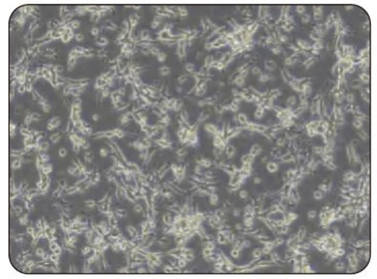
Remote management in the incubator

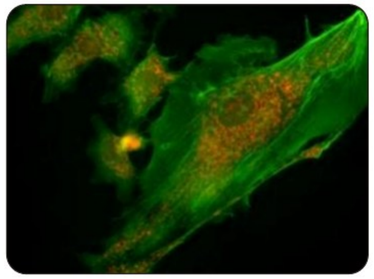
Automatic reminder for generations

Take photos automatically, shoot continuously

Live-cell imaging system			
Model	MCS11	MCS21	MCS22
Brightfield observation	Transmitted phase contrast illumination, working distance 70mm		
	Long life low phototoxicity LED light source: 625nm		
Fluorescence observation	No	B:475/30nm	
		G:560/40nm	
		Three-color fluorescence is optional, and the bands can be customized	
Objectives	Single objective: 4X/10X/20X objective optional	Single objective: 4X/10X/20X objective optional	Dual objective: motorized switching
			4X/10X/20X objectives are optional
Stage	Flatbed stage, manual movement		
Body size	Width*Length*Height: 143mm*232mm*182mm	Width*Length*Height: 214mm*260mm*182mm	
Z-axis	Motorized focus, autofocus		
Camera	5 million pixel brightfield camera	High-speed, high-sensitivity fluorescence camera 5 million pixels; Chip size: 2/3 inch; Frame rate: 40fps	
Software	C/S architecture is adopted, and remote control is supported, including lighting control, camera control, photography, video, time-lapse photography, cell counting, cell confluence, and scratch experiments;Extranet control, email reminder		
Data Transmission /Power Supply	USB data cable + DC power supply cable		
Working environment	5-42°C, 5-95%RH		

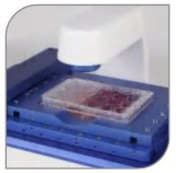






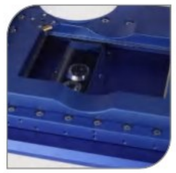
Live–cell scanning analyzer MCS31

The live cell scanning analyzer MCS31 is a good companion for multi-well plate cell culture, which can be used in the incubator, supports phase contrast and fluorescence observation from 6-well plates to 96-well plates, and supports scanning and splicing of selected areas, so as to achieve a large field of view and long-term observation and recording of multi-well plates, greatly improve the experimental efficiency of application scenarios such as comparative experiments, and reduce the risk of experimental failure caused by pollution.

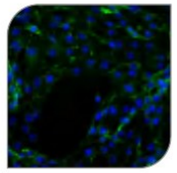


Imaging for long periods of time in the incubator

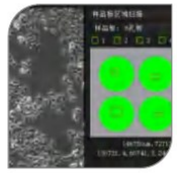
Adapt to petri dishes such as multi-well plates



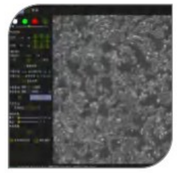
Motorized switchable dual objectives



Phase contrast and fluorescence dual modality

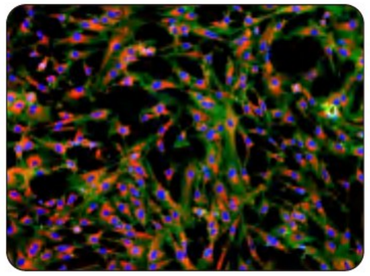
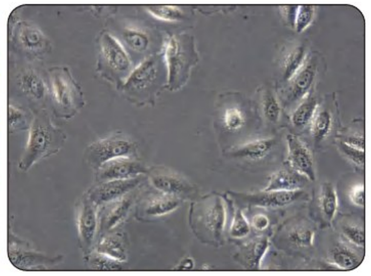
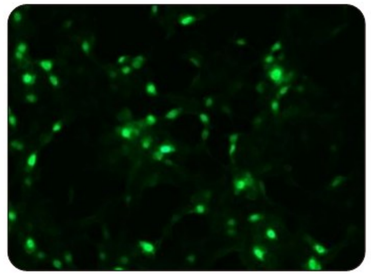


Supports multi-well or area scanning



Remote management, time-lapse shooting

Live-cell scanning analyzer MCS31	
Brightfield observation	Transmitted phase contrast illumination with a working distance of 55mm
	Long life low phototoxicity LED light source: 625nm
Fluorescence observation	·B: 472-495nm ·G: 543-560nm ·UV: 393-416nm
Objectives	Motorized objective switching, standard 10X/20X objective, 4X objective optional
Stage	Electric XY mobile stage with stroke of 115*75mm
Z-axis	Motorized focusing mechanism for autofocus
Camera	High-speed high-sensitivity camera 500W 2/3-inch 40fps
Software	Support remote control, including lighting control, camera control, photography, video, time-lapse photography 5 million pixels; Chip size: 2/3 inch; Frame rate: 40fps
Analytical features	Cell counting, cell confluency, scratch assay, transfection efficiency, viability analysis; Extranet control, email reminder
Scan function	· Multi-well scanning: Customize the XY array multi-point photography, brightfield, fluorescence multi-channel superposition · Area scanning: Set rectangular area panoramic scanning stitching, brightfield, fluorescence multi-channel superimposition
Data Transmission/ Power Supply	USB data cable + DC power supply cable
Working environment	5-40°C, 20-95%RH
Szie	377mm × 252mm × 208mm

Inverted fluorescence microscope MF53-N

Research-grade inverted microscope MF53-N is equipment with sextuple turret fluorescence module and long working life LED light source, high numerical aperture semi-achromat objectives are clarity. And it is flexible expand to different observation methods, also with XYZ motorized stage.

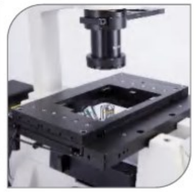

High NA semi-achromat objectives


10X/23mm wide view eyepiece


Sextuple turret fluorescence attachment


Flexible expand to Hoffman


LED light source working life over 10,000 hours


Can upgrade with high precision motorized XYZ stage

Eyepiece	WF10X/23 wide eyepiece, high-eyepoint	
Observation tube	Centering telescope	
	45° inclined, diopter is adjustable	
Objectives	Plan achromatic objective 4X	Plan semi-achromatic objectives 4X (optional)
	Plan semi-achromatic objectives 10X	Plan semi-achromatic objectives 20X (opyional)
	Plan semi-achromatic objective 40X	Plan achromatic objective 10X (optional)
	Plan semi-achromatic phase contrast objective 10X PH	Plan achromatic objective 40X (optional)
	Plan semi-achromatic phase contrast objective 20X PH	
Nosepiece	Sextuple revolving nosepiece with bearing inner location and anti-fungus device	
Stage	Fixed stage 240mm×260mm; moving range: 135mm×85mm	
	Water drop slide glass holder (Φ118mm)	
	Multi-functions slide glass holder (76mm×26mm、Φ60)	
Epi-illuminting fluorescence system	Broad-spectrum LED light source MG-100; four individual channels MG-120	
	6 filter cube positions fluorescence wheel	
	Excitation filter	Fluorescence wavelength
	U	EX:375/30nm; DM:415nm; EM:460/50nm
	B	EX:475/30nm; DM:505nm; EM:530/40nm
	G	EX:540/25nm; DM:565nm; EM:605/55nm
Focusing system	Coaxial coarse and fine with limit and locking devices, low coaxial focus adjusting handle, Minimum adjustment gradations: 1μm	
Transmitted illuminating	Warm LED brightness contentiously adjustment	
	LED rotary brightness control knob	
	Long working distance condenser 72mm, NA=0.30 with triple phase contrast slider	
Camera port	Internal set 1X	

*Depends on different light source, stage and optional accessories, the product appearance might be different from the product photo in catalogue

MF53-HMC Hoffman Modulation Phase Contrast

On the basis of Mf53, the slit condenser and other accessories are upgraded nto realize Hoffman modulation phase contrast observation, so as to realize clear observation of unstained samples such as oocytes with a three-dimensional sense, which is suitable for IVF reproductive assistance applications.

Features:

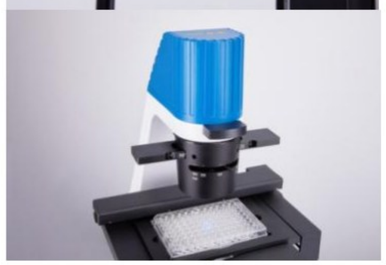
- Imaging has a three-dimensional effect similar to DIC, suitable for transparent samples such as oocytes
- The cost is more advantageous than DIC, suitable for large-scale use such as IVF
- Satisfy thicker transparent samples that cannot be observed by phase contrast

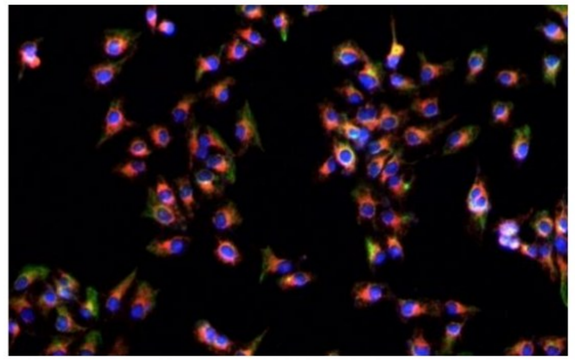
Inverted fluorescence microscope MF52-N

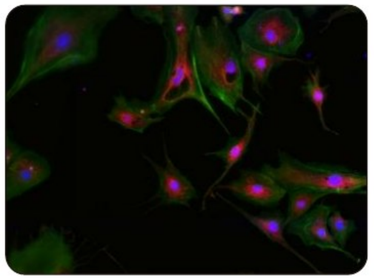
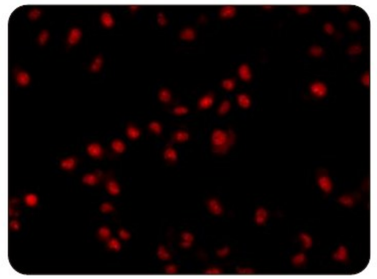
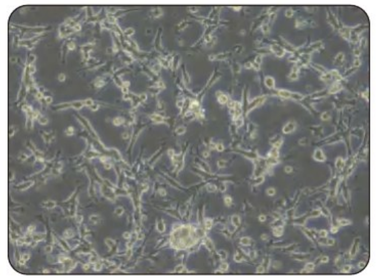
Inverted fluorescence microscope MF52-N adopts high-quality optical design and digital display LED fluorescence module. The optical path has been deeply optimized to provided easy-to-use fluorescence excitation and high-quality phase contrast, fluorescence and bright field imaging. It is widely used in cells cultivation, bio-pharmaceutical, medical testing and other fields.

Features:

- Long-life digital display LED fluorescence module
- High-quality infinity optics, no field curvature and low dispersion
- Built-in interface, compatible with cameras up to 1.2 inches

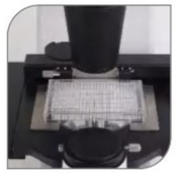


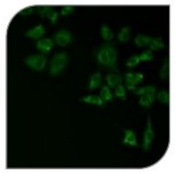




Invert the fluorescence microscope MIX60-FL

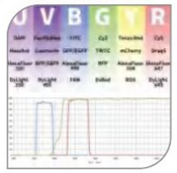
Inverted fluorescence microscope MIX60-FL adopts a modular design concept, the digital display LED fluorescence module can realize three-color fluorescence observation, and its own OLED digital display screen can intuitively present the current channel and light intensity, and the light intensity of each channel can be remembered independently, and the fluorescence intensity can be switched back and forth without repeated adjustment, and the fluorescence intensity is more accurate and controllable.


Support multi-magnification phase contrast observation


Flexible adaptation to different incubator


Precise, repeatable fluorescence intensity


Various objectives are available for choice



Meet various fluorescent labeled observations

More intuitive digital LED screen

NEW

Item	Specifications
Lighting system	·Built-in transmitted illumination ·Light Intensity Manager ·3W LED, brightness continuously adjustable
Digital display screen	Display of working status, including ECO, voice function, objective magnification and brightness, etc
Conderser	· Quick release phase contrast condenser, working distance 72mm · 10X/20X/40X phase contrast ring · Rotating fluorescent matting plate
Observation tube	45° inclined, PD 48–75mm, light split 100:0 or 0:100
Eyepiece	Large field of view WF10X /22mm, high eyepoint, adjustable diopter
Focusing	Low-hand coaxial focusing handwheel, equipped with limiting device and locking device, grid value of 2μm
Stage	· Fixed stage size:267.4mm×271.4mm · Round transparent stage: ϕ118mm · Optional extended version for increased width 71mm
Moving rulers	· Mechanical movement, moving range:110mm×75mm · Universal sample holder for matching slides and different Petri dishes
Nosepiece	Quintuple internal positioning converter, with anti-mildew device
Objectives	· Plan semi-achromatic objectives 4X/10X/20X/40X · Plan achromatic phase contrast objectives 4X/10X/20X/40X PH
Epi-fluorescence attachment	· Three-channel digital display LED fluorescence module · Optional four-channel digital display LED fluorescence module
Szie	Length 560× Width 352× Height 506 (unit mm)

NEW

Inverted microscope MIX60

Features:

· High performance, clear imaging details, flat image field without field curvature
· Ultra-long working distance condenser, supporting brightfield and phase contrast observation, expandable fluorescence observation
· Equipped with a screen to display the light intensity and objective lens magnification in real time

Lighting	·Built-in transmitted illumination ·Light Intensity Manager ·3W LED,
Digital screen	Display of working status, including ECO, voice function, objective magnification and brightness, etc
Conderser	· Quick release phase contrast condenser, working distance 72mm · 10X/20X/40X phase contrast ring
Observation	45° inclined, PD 48–75mm, light split 100:0 or 0:100
Eyepiece	Large field of view WF10X /22mm, high eyepoint, adjustable diopter
Focusing	Low-hand coaxial focusing handwheel, equipped with limiting device and locking device, grid value of 2μm
Stage	· Fixed stage size:267.4mm×271.4mm · Round transparent stage: ϕ118mm · Optional extended version for increased width 71mm
Moving ruler	· Mechanical movement, moving range:110mm×75mm · Universal sample holder for matching slides and different Petri dishes
Nosepiece	Quintuple internal positioning converter, with anti-mildew device
Objectives	· Plan semi-achromatic objectives 4X/10X/20X/40X · Plan achromatic phase contrast objectives 4X/10X/20X/40X PH
Size	Length 560× Width 352× Height 506 (unit mm)

NEW

Inverted microscope MIX60-CF

Features:

· The height of the transmitted light source is adjustable, and to place 10 floors cell factory
· Large, double-layered, mechanically moving stage to support large flasks
· Support brightfield and phase contrast observation, and can upgrade fluorescence observation

Lighting	·Built-in transmitted illumination ·Light Intensity Manager ·3W LED, brightness continuously adjustable
Condenser	· Phase contrast condenser, stroke 55-400mm, support 10 layers of cell factory · 10X/20X/40X phase contrast ring
Observation	45° inclined, PD 48–75mm, light split 100:0 or 0:100
Eyepiece	Large field of view WF10X /22mm, high eyepoint, adjustable diopter
Focusing	Low-hand coaxial focusing handwheel, equipped with limiting device and locking device, grid value of 2μm
Stage	· Double-layer XY mechanical stage · Metal drop plate
Moving ruler	The upper layer moves as a whole, with a scale of 85mm × 55mm
Nosepiece	Quintuple internal positioning converter, with anti-mildew device
Objectives	· Plan semi-achromatic objectives 4X/10X/20X/40X · Plan achromatic phase contrast objectives 4X/10X/20X/40X PH
Size	Length 560× Width 257× Height 742 (unit mm)

Inverted biological microscope MI40

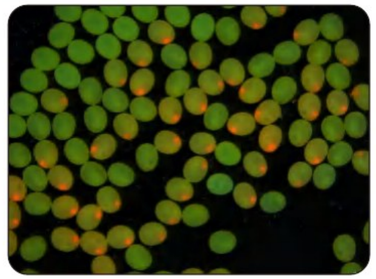
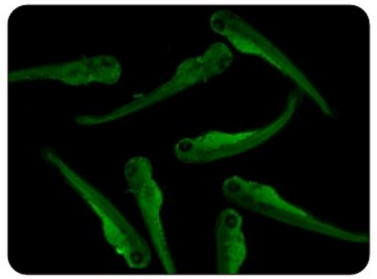
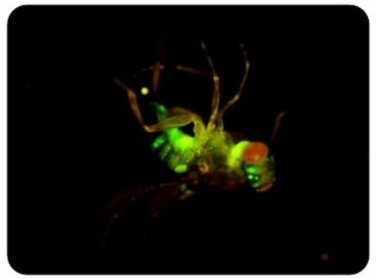
Features:

· Infinity optical system with excellent imaging
· High rigidity body, stable, shockproof, durable
· Cost-effective, satisfying bright field and phase contrast observation

Inverted biological microscope MI52-N

Features:

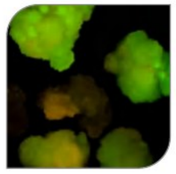
· 10X/22 wide-field eyepiece for comfortable observation
· Built-in interface, compatible with cameras up to 1.2 inches
· 4X/10X/20X/40X objectives are standard for bright field and phase contrast observation

Stereo-fluorescence microscope MZX81

The stereo fluorescence microscope MZX81 uses a high-quality infinite-distance parallel dual-beam Galilean optical system to provide clear and sharp brightfield and fluorescence imaging, and comes standard with 1X apochromat. Differential objective lens with a zoom ratio of 1:7, optional 1:10 zoom body and 1X/2X dual objective. The switching system can meet the needs of model organism research, transgenic breeding, and time sequence identification of vermilion ink

1X plan apochromat objectives



Long-life digital display LED fluorescence module

Support phase contrast, bright field and fluorescence observation

1:7 large zoom ratiom, optional 1:10

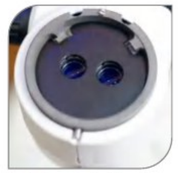
10X/22 wide field view eyepiece

Optional configuration for stamp and signature identification

Model	MZX81	
Eyepiece	WF10X/22	
Head	Lead-free tube, 30° tilt, 100 %/0 light path selection	
Objectives	1X plan apochromatic objectives (2X optional)	
	Optional 1X/2X dual objective switching system	
Epi-illuminating fluorescence	Excitation cube	Excitation wavelength
	B	460-490nm
	G	510-550nm
	optional UV	330-380nm
Zoom body	Zoom ratio: 7:1 (0.8x ~5.6x)	
	Optional 1:10 large zoom ratio	
	Magnification scale 0.8, 1, 1.25, 1.6, 2, 2.5, 3.2, 4,5, 5.6	
Zoom times	8-56X	
Basement	SZ2-ST standard base	
	Fluorescence special board M-FL	
Dust cover	Mshot dust cover	

Stereo microscope MZX100

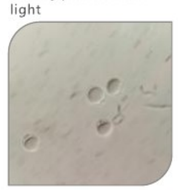
Zoom ratio up to 1:10



Infinity parallel dual light

Optional variable angle binocular head

A beam splitter be installed to connect to the camera

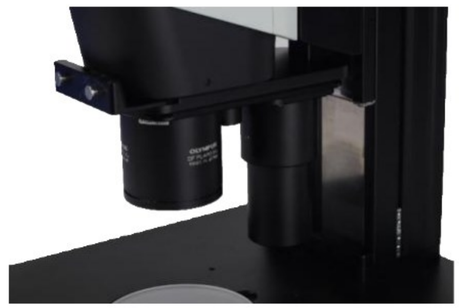


Optional adjustable angle transmission base

Optional dual objectives switching system

Eyepiece	High eye point and large field of viewWF10X/22mm
	Optional WF15X/16mm; WF20X/12.5mm; reticle eyepiece
Head	Binocular inclination20°, interpupillary distance 48-75mm
	Optional variable angle binocular head, 0-30°
Splitter	L type, switchable beam splitter, eyepiece : camera =100: 0/50:50
Objectives	1X big plan objective, WD:78mm
	Optional 0.5X objective lens and dual objective switching system
Zoom range	0.8X-8X
Basement	Transmissive flat base, transparent glass working board, black and white board with push-pull switching
	Coarse and micro coaxial focusing, adjustable tightness, lifting range 83mm
Optional fluorescent accessory	Digital LED fluorescence module, support BG channel fluorescence excitation

MZX100 is a research-grade stereo microscope, with infinity parallel dual optical path design, zoom ratio up to 1:10, featuring dual objective switching system, can be equipped with adjustable angle transmission base to achieve three-dimensional observation of transparent samples such as cells, and can be equipped with digital LED fluorescence module to achieve fluorescence observation.



High power stereo microscope MZX200

Features:

- Rotating 1X and 10X dual objectives with a large zoom range
- Excellent imaging, 1:10 large zoom body with aperture diaphragm
- LED digital fluorescence module ,supports multi-channel fluorescence observation
- The height of the center of field of view during switching is consistent

Stereo microscope MZ101

Features:

- 10X/22 large filed of view eyepiece, more comfortable observation
- 1:9 large zoom ratio, sample adaptation is more flexible
- 110mm ultra-long working distance, large operation space
- Reflective and transmitted lighting, ring lights is optionl

Eyepiece	Wide-field eyepiece WF10X/22, both independent adjustment ±5 diopters
Observation head	Hinged trinocular, light splitting50%/50% 45° tilt, interpupillary distance 54-75mm; ultra-long working distance 105mm
Zoom body	Magnification time 0.7X-6.3X, zoom ratio 1:9
Objectives	1X large flat-filed objective lens
Actual filed of view	31.4-3.49mm
Basement	Size: 310mm×280mm, effective vertical travel: 220mm
Focus bracket	Adjustable focus handwheel
Light source	Up/down LED light source lighting; 30W halogen lamp (optional)
Work board	Frosted glass work board
CCD adapter	1XC · 0.5XC (optional)

Stereo microscope MZ62

Features:

- 10X/22 large filed of view eyepiece, more comfortable observation
- Excellent plan achromatic processing, clear image
- Ultra-thin reflective and transmitted LED light source
- Standard 1X objective lens working distance up to 105mm

Eyepiece	Wide-field eyepiece WF10X/22, both independent adjustment ±5 diopters
Observation head	Hinged trinocular, splitting ratio 50/50; 45° tilt, PD 54-75mm; ultra-long working distance 105mm
	Hinged binocular; 45° tilt, 360° rotation (column base plate) ; PD 54-75mm (optional)
Zoom body	Magnification 0.67X-4.5X, zoom ratio 1:6.7
Objective	1X, long working distance 105mm
Actual field of view	32.8-4.88mm
Basement	Slope-type column base, lifting range106mm
Focus bracket	Adjustable focus handwheel, lifting range 50mm
Light source	Up/ down LED light source; LED ring light and cold fiber H-150 (optional)
Work board	φ95mm frosted glass; φ95mm white transparent / black and white board (optional)
Camera adapter	0.5XC, 1XC (optional)

Polarizing

Polarizing microscope MP41

Features:

- Infinity optical system, halogen Kohler lighting
- Rotating stage, 360° equal division scale, satisfying extinction observation
- With Bertrand lens and swing-in condenser for conoscopic observation
- With compensator slot, three kinds of compensators are standard

Item	Specifications
Eyepiece	Wide field WF10X/22
	Reticle eyepiece 10X/22, grid value 0.1mm/ grid
Head	30° tilt, trinocular, two beam splitters
Objectives	Infinite objective PLL5X
	Infinite objectivePLL10X
	Infinite objective PLL40X(spring)
	Infinite objectivePLL60X(spring)
Nosepiece	Quintuple inward-facing ball positioning nosepiece
Stage	Rotary stage, diameter Φ150mm, 360° equal scale, vernier grid value 6′, lockable
Epi-lighting syetem	5W LED light source, color temperature 6000K, brightness adjustable (optional 6V30W halogen lamp)
	Built-in field diaphragm and aperture diaphragm
	(yellow, blue, green, frosted glass) filter converter
	Polarizer (360° rotatable with scale and micro-motion vernier); Deflector (360° rotatable)
Intermediate	Push-in Bertrand lens with adjustable center
	λ compensator (gypsum) ; λ/4 compensator (mica); Quartz wedge compensator
Focusing	Coarse and fine adjustment coaxial, fine adjustment handwheel scale value 2μm
Transmitted lighting	5W LED light source, color temperature 6000K, brightness adjustable (optional 6V30W halogen lamp)
	Abbe condenser, can be lifted up and down, NA1.25, blue color filter; frosted glass
	Polarizer(roatable 360°, with four reading of 0°、90°、180°、270°)

Metallurgicall

Metallurgical microscope MJ43

Features:

- Semi-apochromatic metallurgical objective, the bright and dark field objective is optional
- Three-speed spectrobeam trinocular observation tube supports eyepiece and camera imaging at the same time
- Long-life LED epi-illumination, halogen light box is optional
- Light intensity according to the objective lens
- Strong scalability, can realize DIC and infrared transmission imaging

Item	Specifications
Eyepiece	Large field of view WF10X/22, adjustable diopter
Head	Hinged trinocular, high eye point, 30° tilt, PD 50-75mm
Objective	Semi-apochromatic metallurgical objective EPI 5X Metallographic bright and dark field
	Semi-apochromatic metallurgical objective EPI 10X objectives5X/10X/20X/50X/
	Semi-apochromatic metallurgical objective EPI 20X 100X (optional)
	Semi-apochromatic metallurgical objective EPI 50X
	Semi-apochromatic metallurgical objective EPI 100X (optional)
Lighting	Warm white LED illuminators
EpiKohler Lighting	Broad-spectrum high -power LED light source MG-30, MG-30 power control box
	Epi-illuminator RE-43 (6-hole turnable)
	Bright field excitation block I (no brightness attenuation)
	Simple polarizer attachment
Nosepiece	Quintuple nosepiece
Condenser	Abbe condenser, NA 1.1

Inverted metallurgical microscope MJX60

Features:

- Mature infinity optics with high image quality
- LED epi-illumination, ultra-long life color temperature stability
- High stability, suitable for observing large metal samples

Iten	Specifications
Lighting	Infinity optical system
Head	45° tilt fixed binocular , high eye point, PD 50-70mm, light splitting 100:0 or 0:100
Eyepiece	Long working distance plan achromatic objectives 5X/10X/20X/50X
Objectives	Inward quintuple nosepiece with anti-mildew device
Nosepiece	12V/2A power supply, with ECO walking lights off, voice control system
Focusing	Coarse and fine adjustment coaxial, fine adjustment handwheel scale value 2μm
Focus bracket	XY metallographic stage with metallographic drop plate
Stage	· 3W full-spectrum white LED
Epi-illuminators	·ECO person walking lights off function ·6-position turntable with fixed field diaphragm ·Simple polarization plug-in plate for polarized observation

Metallurgical microscope MJ31

Features:

- LED epi-illumination, long life and low heat generation
- 10X/22 large field of view eyepiece, comfortable observation
- Push-Pull Polarizers and Analyzers

Metallurgical microscope MJ41

Features:

- LED Kohler illumination, color temperature stability
- The body is small and compact, with high stability
- Support polarized observation, push-pull switching

Optical customization

180 modular upright fluorescence imaging modules

Features:

·Provides upright fluorescence imaging with 4 fixed well positions
·F=180mm high-quality tube lens, can be replaced with various UIS2 objectives
·Detachable four-color fluorescence module with customizable parameters
·Different cameras and multiplier interfaces can be matched as required

180 modular inverted fluorescence imaging modules

Features:

·F=180mm high-quality tube lens, can be replaced with various UIS2 objectives
· Detachable four-color fluorescence module, parameters can be customized
·Different cameras and multiplier interfaces can be matched as required

90 modular upright fluorescence imaging modules

Features:

·90mm tube lens with compact size and interchangeable objective lens
·Detachable four-color fluorescence module with customizable parameters
·Built-in 0.5X interface, more compact size

90 modular inverted fluorescence imaging modules

Features:

·Provides inverted fluorescence imaging with 4 fixed well positions
·90mm tube lens with replaceable objective
·Detachable four-color fluorescence module with customizable parameters
·Built-in 0.5X interface, more compact size

Pre-sale	·Program Consulting ·Demo
On sale	·Timely supply ·Training
After sale	·Quick response ·In time answer
QC	·System management ·Life time