MshOt明美





Guangzhou Micro-shot Technology Co., Ltd

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Microscope Imaging System Solution Provider



Company Profile

Guangzhou Micro-shot Technology Co., Ltd researches and develops optical microscopes and microscopy imaging systems, self-owned Chinese brand MSHOT and Singapore brand MICROSHOT, and manufacture qualified optical microscopes and attachments.

Main products line

- •Biological microscope, fluorescence microscope, polarizing microscope, metallurgical microscope, stereo microscope
- •Microscope camera and adapter, microscope imaging software
- •LED fluorescence illuminator
- Heating stage & thermal plate

Main customer groups

Institutes of bio-science and life sicence, university lab and school, scienctific research center, hospital and clinical center, medical industry company, reagent manufacture, microscope distributor



► Fluorescence microscope MF43-N



Specification

Item	MF43-N (Mercury)	MF43-N (LED)		
Frame	Multi-function frame			
Trume	Eyepiece wide field 10X, FN25, diopter is adjustable			
Head	Hinged trinocular observation tube, high eye point, 30° inclination	n, interpupillary distance 50-75mm		
Plan	Standar	Optional		
semi-apo	M-UPLFLN 4X/0.13;WD:17.15mm	M-UPLFLN 20X/0.50		
	M-UPLFLN 10X/0.3;WD:7.68mm	Plan Fluor 4X/10X		
objectives	M-UPLFLN 40X/0.75; WD:0.78mm	Plan Fluor 20X/40X		
	M-UPLFLN 100XO/1.30;WD:0.15mm	Plan Fluor 100X Oil		
	100W HG mercury light box,center and focusing are adjustable	100W broad-spectrum LED light source		
Epi-	Digital mercury light control box, AC 110V/220V	Digital LED light control box, AC110V/220V		
fluores	Osram HBO 100W DC mercury lamp			
cence	Turret accommodates maximum sextuple filter block cubes, standard with Blue, Green and UV filters, other filters are optional			
illumina tion	Filter units	wavelength		
system	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	Interchangeable reversed quintuple nosepiece			
Stage	Ceramic-coated coaxial stage with right hand low drive control, Travel distance 80mm×50mm, 1mm per scale, accuracy 0.1mm			
	Warm white LED lamp, brightness is continuously adjustable			
illumination	Abbe condenser, N.A. 1.1			

► Fluorescence microscope MF53-N



Item	Specifications		Broad-spectrum high power LED light source MG100
Eyepieces	WF10X/23 plan eyepiece, high eyepoint		Quintuple / Sextuple fluorescence illuminator
Eyepieces	Centering telescope	Epi-	Excitation filter units Filter wavelength
Head	45°inclined, pupil distance 50-75mm, diopter is adjustable	illuminating fluorescence	UV(U) EX:330-380nm;DM:400;EM:420nmLP
	Plan achromatic: LWD Plan 4X/0.1,WD 11.98mm	system	Blue(B) EX:460-490nm;DM:500;EM:510nmLP
·	Plan achromatic: Plan10X/0.25, WD 4.1mm		Green(G) EX:510-550nm;DM:570;EM:590nmLP
	Plan achromatic: Plan 40X/0.58, WD 2.5mm	Focus system	Coaxial coarse and fine focus with locker, minimum accuracy: 1 µm
Long working	Plan achromatic phase contrast: Plan10X/0.25 PH, WD 4.1mr	Nosepiece	Quintuple revolve with bearing inner location anti-fungus device
distance objectives	Plan achromatic phase contrast: Plan20X/0.45 PH, WD 5.0mr	n	Fixed stage 240mmX260mm, travel distance 135mmX85mm
	Semi-apochromats: Plan Fluor 4X/0.13 WD:18.5mm(optiona	Stage	Water drop slide holder (Φ118mm)
	Semi-apochromats: Plan Fluor 10X/0.3 WD:7.1mm(optional)		Multi-function slide holder (76mmX26mm, Φ60mm)
	Semi-apochromats: Plan Fluor 20X/0.45 WD:5.9mm(optiona	l)	Warm LED brightness contentiously adjustment
	Semi-apochromats: Plan Fluor 40X/0.65 WD:1.6mm(optiona	Transmitted Illumination	LED rotary brightness control knob
Camera adapter	Built-in 0.75X C-mount adapter or 1X C-mount adapter	system	Condenser: long WD 72mm, NA 0.30 with triple phase contrast slider

Fluorescence microscopeMF31◀ ► Fluorescence microscope MF23

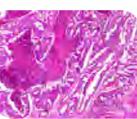


Feature

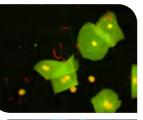
- Infinity plan achromatic objectives and wide field eyepiece
- Available observation of binocular&trinocular
- LED fluorescence attachment
- Applied to clinical laboratories with principle of micro-magnification
- For observing small cells, tissues, bacteria and other samples

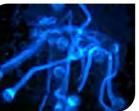
Specification

Item	MF23	MF31	
Eyepiece	WF10X/FN20	WF10X/FN22	
	Infinity plan achromatic objective 4X/0.1		
Objectives	Infinity plan achromatic objective 10X/0.25		
	Infinity plan achromatic objective 40X/0.6	55	
	Infinity plan achromatic objective 100X/1.	.25	
Head	30°inclined, pupil distance 48~75mm, triple split 30°inclined, pupil distance 53~75mm		
Focusing	Coarse and fine focus with locker, fine Coarse and fine focus with locker,		
system	stroke per 2μm, lifting range 15mm	fine stroke per rotation 2µm	
Nosepiece	Backward quadruple nosepiece		
stage	Wire drive, size 120x132mm,	Double layer mechanical movable stage	
	travel range76x30mm	(size 210x140mm, travel range76x50mm)	
Condenser	Abbe Condenser NA.1.25		
	Frosted glass, blue filter		
Fluorescence	12V2A constant voltage DC power adapter		
illumination	LED fluorescence module with light barrier		
system	Blue: EF450nm-490nm, EM>520nm		
	Green: EF510nm~550nm, EM>590nm		









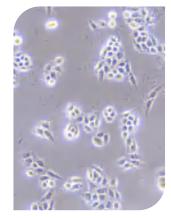
► Inverted fluorescence microscope MF52-N

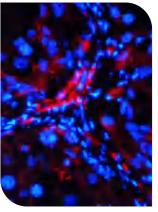


- © Compatible with cameras sensor under 1 inch
- Objective imaging is clear without field curvature halo
- High contrast
- SWF10X/22 plan eyepiece
- New optical path optimization design

- Cell culture
- Biological pharmacy
- Disease prevention
- Medical testing

Item	Specification		
Eyepiece	SWF10X/23 plan eyep	viece, high eyepoint	
	Centering telescope		
Observation tube	45°inclined, Interpup	illary distance 50-75mm, diopter is adjustable	
	M-UPLFLN4X/0.13 Wo	ork distance:17.15mm	
Long working	Infinity achromatic p	an10X/0.25 Work distance:4.1mm	
distance	Infinity achromatic p	an40X/0.58 Work distance:3.5mm	
plan objective	Infinity achromatic p	hase contrast plan10X/0.25Ph WD:4.1mm	
	Infinity achromatic p	hase contrast plan20X/0.45Ph WD:2.5 mm	
	Cold LED light source	, brightness continuously adjustable	
Epi-fluorescence	Standard with three	excitation filter groups, other filter groups are optional	
illumination	Excitation filter	Excitation wavelength	
system	Ultraviolet (UV)	330-380nm	
	Blue (B)	460- 490nm	
	Green (G)	510- 550nm	
Focus system	Coarse&fine focus wi	th locker, minimum division of fine focusing is 2μm.	
Nosepiece	Quintuple nosepiece,	ball bearing with anti fungus device	
	Fixed stage overall size is 227mmX208mm		
	Mechanical moving device, moving range135mmX77mm		
	Glass rotundity stage	overall size is Φ118mm, inner size is Φ68mm	
Stage	Culture dish holder 1	Inside locating slot size:86x129.5mm, circular culture dishφ90mm	
	Culture dish holder 2	Inside locating slot size: 34x77.5mm, circular culture dishφ68.5mm	
	Culture dish holder 3	Inside locating slot size:57x82mm, circular culture dishφ60mm	
	Culture dish holder 4	Inside locating slot size:29x77.5mm, circular culture dishφ35mm	
Transmitted	White LED lamp with brightness adjustable		
illumination	Push-pull type condenser, working distance 55mm		
system	Green filter		
Light baffle	110mm x 70mm		
Camera adapter	Internal set 0.75X C-mount		





Stereo-fluorescence microscope MZX81



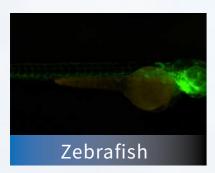
Feature

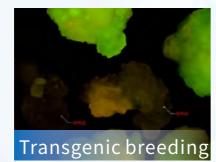
- Infinity parallel optical system
- Dual light path LED fluorescence lighting design
- Large zoom ratio
- Galileo optical system

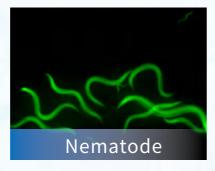
Specification

Product model	MZX81	
Eyepiece	WF10X/22	
Head	Lead-free, 30°inc	lination,Light path: 100% for eyepiece or camera
Objectives	Plan achromatic	1X, working distance 90mm (2x optional)
Epi-fluorescence	Filter units	Excitation wavelength
illumination	Blue(B)	460-490nm
attachment	Green(G)	510-550nm
	Ultraviolet (UV)	330-380nm (可选)
Zoom body	Zoom radio valu	e 7:1 (0.8x to 5.6)
Magnification	magnification sc	ale 0.8,1,1.25,1.62,2.5,3.2,4,5,5.6
Stand	8-56X	
Statiu	SZ2-ST standard	stand
	Fluorescence spe	ecial board M-FL

Application













Broad-spectrum high power LED Light Source





MG-100

MG-30

Feature

- Ready to use
- Different bands can be switched freely
- Infrared induction, light off when nobody, environmental friendly
- Real-time monitoring light box temperature and use time
- Meet different users needs of scientific research, analysis and testing

Specification

Item	MG-100	MG-30		
Host	350-390nm/410-760nm	410-760nm		
	Output intensity is adjustable			
Microscope adapter	Compatible for Olympus, Nikon, Leica, Zeiss and others			
Light source control box	Max out put power: 120W Max out put power: 30W			
Host connection line	8P aviation head (temperature control protect light source) ,1.5n			
Power line	Satisfy customers requirements			
Lamp house size	180mmx114mmx122m	152mmx110mmx84.5mm		
Control box size	196mmx137mmx65.5mm	110.5mmx110.5mmx68mm		



Four-channels LED fluorescence light source

Feature

- Integrated 4 high-power monochromatic lamps
- Optical fiber type to realize single-channel control
- Superior brightness

Peak wavelength	365 / 385nm、460nm、520/ 560nm、625nm
Electrical parameters	12V 70W
Coupler (optional)	Liquid light guide: 3mm, 5mm
Control method	4 independent controllers; dimming range: 0-100%;
Cooling method	dimming accuracy: 0.5%
Working temperature	Forced air cooling
Size	5°C - 45°C
	Light source: L 180x W 60x H 168mm
	Control box: L 104x W 84x H 34mm





Digital display fluorescence attachment

Microscopy Imaging Expert — Fluorescence attachment

Feature

- Push-pull switch among different fluorescence
- Match all major brand of microscopes
- Digital display brightness and band, better quantitative analysis
- Encoded konb continously adjust brightness and remember light intensity

Specification

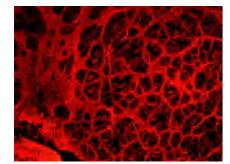
		BP:EX:475/30nm;DM:505nm;EM:530/40nm
	В	LP:EX:475/30nm;DM:500nm;EM:510 nmLP
Filher russing	G	BP:EX:530/40nm;DM:565nm;EM:605/55nm
Filter groups	G	LP:EX:530/40nm;DM:570nm;EM:575 nmLP
		VBP:EX:375/30nm;DM:415nm;EM:460/50nm
	U	VLP:EX:355/50nm;DM:410nm;EM:420 nmLP
	Υ	LP:EX:560/40nm;DM:600nm;EM:610 nmLP
Excitation light source		LED light source
Observation method		Fluorescence, bright field switching
Input power		DC 12V 2A

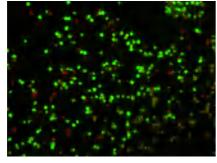
- Digital display fluorescence attachment
- Inverted digital display fluorescence attachment
- Stereo digital display fluorescence attachment













▶ Compatible with famous brands/Upright microscope



▶ Compatible with famous brands/Inverted microscope



▶ Compatible with famous brands/Stereo Microscope



Biological microscope ML51



Feature

- Provides nature, clear and sharp images
- Rich flexibility to satisfy different needs
- Remote power switch

Specification

Optical system	Infinite optical system
Eyepiece	WF10X / FN22mm,high eyepoint,diopter is adjustable
Observation tube	Hinged trinocular tube, fields of view 22mm, high eyepoint, 30° inclined,
	interpupillary distance is adjustable
Objectives	M-UPLFLN series semi-apochromats objective 4X/0.13
	M-UPLFLN series semi-apochromats objective 10X/0.3
	M-UPLFLN series semi-apochromats objective 40X/0.75
	M-UPLFLN series semi-apochromats objective 100X/1.3
Focusing system	Coaxial coarse and fine focus, fine scale value 1 μm , focusing range 35mm
Nosepiece	Sixtuple nosepiece with expansion slot
Stage	Double-layer steel wire structure stage (Corning glass table)
	size: 302mm x 152mm; 78(X)mm x 32(Y)mm, 1mm/div, accuracy 0.1mm
Condenser	Manual swing-out condenser
	Phase contrast condenser (optional)
Bright field lighting	g 3W White LED
	12V/100W halogen lamp (optional)
Camera adapter	1X, 0.63X, 0.5X(optional)

Biological microscope ML41

Feature

- Dual color temperature light source
- Swing-out condenser, clear imaging
- ⊚ 4x,10x,20x,40x and 100x high transmittance imaging objectives
- Wide field high-eyepoint eyepieces, maximum field of view 25mm, diopter is adjustable
- Detachable double-layer mechanical moveable stage, accuracy 0.1 mm

Specification

Eyepiece	Wide-field WF10X / Fn25mm,high eyepoint
Observation tube	Hinged trinocular,50%:50% light split,30°inclined,pupil distance 50-75mm
	High-contrast achromatic objective Plan 4x/0.1, working distance 11.6mm
	High-contrast achromatic objective Plan 10x/0.25, working distance 4.8mm
Objectives	High-contrast achromatic objective Plan 20x/0.40, working distance 2.9mm
	High-contrast achromatic objective Plan 40x/0.65, working distance 0.55mm
	$High-contrast\ achromatic\ objective\ Plan\ 100x/1.25,\ working\ distance\ 0.17mm$
Focus	Coaxial coarse and fine focus, focusing range 25mm, fine scale value 0.002mm
Nosepiece	Quintuple nosepiece with inward tilt
Stage	Detachable double-layer mechanical moveable stage, size: 185mm x 145mm;
	Moving range:75(X)mm x 50(Y)mm, accuracy 0.1mm
Transmitted lighting	Swing-out condenser NA1.2/0.22,LED light source, brightness adjustable
System	Free switching of cold/warm dual color temperature



▶ Biological microscope ML31

Feature

- Infinite optical system
- Wide-field high eyepoint eyepiece
- Precision focusing mechanism

Specification

Eyepiece	Wide-field WF10X/FN22mm
	Wide-field WF16X/FN15mm(optional)
Observation tube	Hinged trinocular tube,30°inclined, pupil distance 50-75mm
	Infinite plan achromatic objective 4x/0.1, working distance 21.5mm
Objective	Infinite plan achromatic objective 10X/0.25, working distance 7.5mm
	Infinite plan achromatic objective 40X/0.65, working distance 0.65mm
	Infinite plan achromatic objective(oil) 100X/1.25, working distance 0.185mm
Focus adjustment	Coaxial coarse and fine focus with locker, fine scale value 2µm,
,	coarse stroke per rotation 40mm, micro stroke 0.2mm, focusing range 35mm
Nosepiece	Quadruple nosepiece with inward tilt
Stage	Double-layer structure (size: 210mm x 140mm; moving range:78mm x 32mm)
Transmitted lighting	Abbe condenser NA1.25
	White LED, brightness adjustable
Camera adapter	1XC
	0.5XC(optional)

▶ Biological microscope ML11

- Wide-field eyepiece and achromatic objective
- Coaxial coarse and fine focus adjustment
- 3W LED lighting, pre-set light center, brightness is adjustable

Eyepiece	WF10X/18mm
Hinged	30°inclination, trinocular, pupil distance 50-75mm, single diopter adjustable, fix R:T:80:20
observation tube	30°inclination, binocular, pupil distance 50-75mm, single diopter adjustable (optional)
	Achromatic objective 4x/0.10, working distance 37.5mm
Objective	Achromatic objective 10x/0.25, working distance 6.55mm
	Achromatic objective 40x/0.65, working distance 0.669mm
	Achromatic objective 100x/1.25, working distance 0.198mm
Nosepiece	Quadruple nosepiece with inward tilt
Stage	Double-layer mechanical mobile stage,
	moving range:76mmx 50mm,accuracy 0.1 mm
Focus	Coarse adjustment stroke 25mm, fine focusing accuracy 0.002µm
adjustment	Low position hand wheel coaxial coarse and fine with limit stopper and lock device
Transmitted	3W LED, Pre-set light center, brightness continuously adjustable
lighting	Abbey condenser, N.A.1.25, with changeable aperture diaphragm
Camera adapter	1XC



► Cell Factory MI52-CF

Inverted microscope MI52-N◀





Feature •

- © Excellent infinite optical system, can realize bright field and phase contrast observation
- Rotating swing in and out condenser, can observe cultured cells without contamination in high petri dishes or cylindrical flasks

Feature

- Infinite optical system
- O Long WD plan objectives and wide field eyepiece
- O Rotating swing in-out condenser system

Specification

Sp	ecif	ıca	tic	Ti

Eyepiece	SWF10X/22 plan eyepiece, high-eye point	Eyepiece	SWF10X/22 high-eyepoint plan ,1 diopter is adjustable, centering telescope
Head	45°inclination, interpupillary distance 53-75mm	Head	45°inclination, interpupillary distance 53-75mm, diopter is adjustable
Long working	Plan M-UPLFLN4x/0.13, WD 17.15mm		Plan M-UPLFLN4x/0.13,WD 17.15mm
distance	Plan achromatic phase contrast Plan40x/0.58 , WD 2.5mm	Long working	Infinite plan achromatic phase contrast Plan40x/0.58, WD 2.5mm
objectives	Plan achromatic phase contrast Plan10x/0.25 PH ,WD 4.1mm	distance	Infinite plan achromatic phase contrast Plan10x/0.25 PH, WD 4.1mm
	Plan achromatic phase contrast Plan20x/0.45 PH ,WD 5mm	objectives	Infinite plan achromatic phase contrast Plan20x/0.45 PH, WD 5mm
Focus	Low position hand wheel coaxial coarse and fine adjustment with	Focus	Coaxial coarse and fine focus with locker, fine adjustment scale value $2\mu m$
	limit stopper and lock device, fine adjustment scale value $2\mu \text{m}$	Phase contrast	Phase contras ring plate 10x , 20x/40x share one ring
Nosepiece	Quintuple with inward tilt,ball bearing with anti-mildew device		Fixed stage :227 x 208mm, Mechanical moveable, moving range:135x 77mm
Stage	Mechanical stage,size: 242mm x 200mm, moving range:30mmx 30mm		Round transparent plate:Outer ringφ118mm, inner ringφ68mm
	Round rotatable plate, outer diameterφ130mm, light path <φ20mm	Stage	Petri dish plate 1: groove size 86 x 129.5mm,q90mm petri dish is suitable
Condenser	Sliding type phase contrast condenser,working range:55mmx 400mm		Petri dish plate 2: groove size 34 x 77.5mm,q68.5mm petri dish is suitable
Transmitted	White LED, brightness continuously adjustable		Petri dish plate 3: groove size 57 x 82mm, petri dishq60mm is suitable
illumination	Green filter		Petri dish plate 4: groove size $29 \times 77.5 \text{mm}$, petri dish ϕ 35mm is suitable
Camera adapte	Internal built-in 0.75X C	Camera adapter	Internal built-in 0.75X C

Multilayer Cell Factory Imaging Equipment

Feature

Real time observation of in-suit cell factory 1-40 layers

Remote monitoring and traceable

The bottom 1-3 layers are fully observed, the side layers can be observed 10mm area

Fiber light source lighting of cold LED lamp

Human-machine exchange, embedded operation

Automatic control, 1-40 layers automatic detection only takes 2min

Realize qualified evaluation of cell culture passage, virus infection and harvest process

All-in-one machine structure of food-grade 304 stainless steel to satisfy GMP workshop

Observation magnification can be customized according to user needs











	Total magnification: 50-400X
Optical system	Working distance: 45mm
	Field of view: 1-8mm
	The highest resolution radio: 1µm
	Optical sensor size: 2/3"
Image acquisition system	The highest resolution: 2456X2058
	Frame rate: 15FPS
Control System	Repeat positioning accuracy: 5μm (vertical), 20μm (horizontal)
	RAM: 4G
Processing system	Processor: Intel Corei5
	Screen: 17-inch TELLCD touch screen
	Net size: 1.1X0.7X15m
Size & weight	Net weight: 230kg

▶ Live cell imaging system

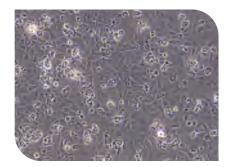


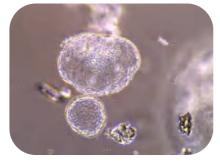
- Compact and lightweight, workable with clean bench
- Support WIFI connecting to realize remote control
- Can match multi-channels fluorescence, realize electric switching and XYZ control Observation method of bright field and phase
- contrast clearly observe the cell culture morphology
- Match 3 objectives synchronously to obtain cell observation of various magnification

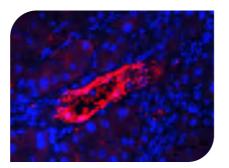


	Specification	Basic version	Standard version	
	Objectives	1 piece	3 pieces	
	Magnification 10X		4X/10X/20X	
у	Observation	Bright field,phase contrast	Bright field, phase contrast/fluorescence	
	Fluorescence None		3-channelsLED fluorescence	
	Imaging WIFI camera 2592x1944/30FPS		High sensitivity WIFI camera 1920X1080/30FPS	
	Dimension (MM) Integrated platform XY moving mechanism		Integrated platform/auto focus XY moving mechanism	
	Stage	195X174X151	296X260X220	

Application







Stereo Microscope MZ62



Feature

- Excellent optical system
- Standard 1X objective
- Ultra-thin transmitted and reflected LED light source

Specification

Eyepiece	WF10X/22mm high eye-point, large field of view,	CCD adapter	0.5XC
	both eyepiece diopter adjusting range $\pm 5^\circ$	Focus frame &wheel	Adjustable tension, lifting 50mm
Observation	Hinged trinocular, light split: 50%/50%, 45° inclined	,Base	L-slope stand, vertical WD 106mm
tube	pupil distance 54-75mm,Zoom ratio:6.7:1,	Work plate	φ95mm frosted glass work plate
	700m range: 0.67X∼4.5X WD:105mm	Illuminated System	Up & down LED light source

Stereo Microscope MZ101

Feature

- © Continuous zoom objective
- 45°inclined observation tube
- Lifting zoom body

Specification

Eyepiece	Wide field WF10X ,FN:22mm	Total magnification	7X - 63X
	Continuous zoom	Effective moving range	220mm
Objectives	Zoom range: 0.7~6.3(Zoom radio:1:9)	Basement size	310mmX280mm
	Working distance:110mm	Illumination	Up:3W high brightness LED
Field of view	ф33.8~ф3.49		Down:5W high brightness LED



► Polarizing Microscope MP41

Feature

- Long working distance plan objectives
 Field of view Φ22mm
- Stage vertical effective lifting range 30mm



Item	Specifications	Camera adap	ter 1XC
Eyepiece	WF 10X/22		6V30W halogen, brightness adjustable
	Graduated WF10X(Φ22mm) 0.10mm/Div		Integrated field and aperture diaphragm
Head	Trinocular, inclined 30°,100% light pass for photography capable	Reflected	Rotated analyze 360° with scale&minimum
Long WD	PL L5X/0.12 (Work distance):26.1 mm	illumination	vernier,Polarizer can be rotated 360°.
achromatic	PL L10X/0.25 (Work distance):20.2 mm		Quadruple (center adjustable)
objectives	PL L40X/0.60(spring) (Work distance):3.98 mm	Intermediate	Pull type Bertrand lens and center adjustable
Nosepiece	PL L60X/0.70(spring) (Work distance):3.18 mm	attachments	λ ,λ/4 and quarts wedge compensator
Stage	Quadruple internal positioning rotating ball		6V30W halogen, brightness adjustable
	Rotary stage, Ф150mm, 360 equal scale, vernier sale value 6',	Transmitted	Abbe condenser,liftable,NA 1.25
Focus	adjustable center, with locking device	illuminating	Blue filter, Frosted glass
	Coaxial coarse/fine focus,with tension adjustable and locker,	system	Polarizer (360° rotatable with 0°,90°,180°,270°)
	minimum graduation in fine movement: 2μm		

Metallurgical microscope MJ43



Feature

- Wide and clear view
- Various solutions
- Long life and high power LEDFlexible and wide application

Specification

Item	Specifications	Stage	Coaxial stage with right hand low drive control
Frame	Original import		30W board-spectrum LED light source Mg30
Eyepiece	Wide field eyepiece 10X/22mm,diopter adjustable		Connector of broad-spectrum LED light source
Hinged observation	on Trinocular,30°incline,high-eyepoint, interpupillary 53~75mm	Reflected	Turret accommodates maximum
Semi-apochromaticPlanFluor EPI 5X/0.15, working distance:20mm		fluorescence	sextuple filter block cubes
metallurgical	PlanFluor EPI 10X/0.3, working distance:11mm	illumination	Mirror units of bright field
bright field	PlanFluor EPI 20X/0.45, working distance:3mm	system	Simple analyzer
objectives	PlanFluor EPI 50X/0.8, working distance:1mm		Simple polarizer

Fixing clamp Glass stage sample clamp

Metallurgical Microscope MJ33

Feature

- Infinite optical system modular
- Built in switchable polarizing device
- Coarse and fine focusing mechanism

Specification

Item	Specifications		12V 50W halogen lamp,
Eyepiece	WF10X/22	Epi-	brightness lamp position adjustable
Eyepiece tube	Trinocular, 30°inclined, built-in switchable analyer	illumination	Built-in field diaphragm, aperture diaphragm
Long work	PL L5X/0.12 B. D,wroking distance: 9.7 mm	system	Filter switching device (YBG and frosted glass)
distance plan	PL L10X/0.25 B. D, wroking distance: 9.3 mm		Push-pull type analyzer and polarizer
achromatic	PL L20X/0.40 B. D, wroking distance: 7.2 mm		12V 30W halogen lamp,
objectives	PL L40X/0.60 B. D ,wroking distance: 3.0 mm	Transmitted	brightness and light center are adjustable1
Nosepiece	Quintuple (Fixed nosepiece with backward inclined)	illumination	Transmission light source, built-in field diaphragm
Stage	Double layer mechanical movable stage (size: 210mmX140mm,	system	Abbe condenser NA. 1.25 up and down adjustable
	moving range: 75mmX50mm), glass plate 97x76mm		Blue filter and frosted glass
Focus system	Coaxial coarse/fine, with tension adjustable and limit stopper,	Adapter	1XC Camera adapter
	minimum division of fine focusing: 2µm.		



Metallurgical Microscope MJ31



Feature

- High definition and high contrast imaging
- Large field eyepiece 22mm view, more comfortable observation
- Polarized observation
- Long WD plan field objectives

Specification

Item	Specifications	Focus system	Coaxial coarse/fine with limit stopper and lock device.
Observatio	n30°inclined trincoular, interpupillary53~75mm, 0%/100%		Coarse per 40mm, microstroke per 0.2mm, focusing stroke 24mm
Eyepiece	Wide field WF10X/F.N.22	Epi-illuminatio	n Kohler illumination Filters: Green, yellow, blue and gross glass
Long	L Plan 5X, NA 0.15, working distance 23.6mm	Condenser	Lifting type Abbe condenser NA1.25 with aperture diaphragm
working	L Plan 10X, NA 0.30, working distance 17.7mm	Nosepiece	Quadruple backward
distance	L Plan 20X, NA 0.40, working distance 10.4mm		Quintuple backward(optional)
plan	L Plan 50X, NA 0.55, working distance 7.0mm	Stage	Double-deck mechanical, size 210x140mm, travel 75x50mm
objectives	L Plan 100X, NA 0.80, working distance 3.2mm(optional)	Transmitted	Abbe condenser NA. 1.25
		illumination	White LED Jamp brightness adjustable

Scientific camera MSH20

Feature

- High dynamic range>93dB
- © Broad spectral response 200nm-1300nm
- [®] Full well capacity up to 90000e-
- © 2" large sensor, wider field of view
- ⊚ Ultra-low read noise 1.47e-
- ® Back-illuminated sensor, higher sensitivity



Specification

Туре	Monochrome	Shutter	Electronic rolling shutter
Effective resolution	4.2 Megapixels	Exposure time	0.021ms-20s
Sensor size	2 inch	Dynamic range	>93dB
Pixels Size	11μm × 11μm	Full order capacity	93Ke-
Resolution	2048 × 2048 24FPS	Read noise	1.47e-
Frame rate	Any size ROI	A/D conversion	12Bit
Spectral Response	200-1300nm	External dimension	105.0 × 105.0 × 92.0 mm

Scientific camera MSH12

Feature

- High quantum efficiency 95% at 560nm
 High dynamic range>90.5dB
- ⊚ Broad spectral response 200nm-1100nm ⊚ Full well capacity reaches 55000e-
- 1.2" large sensor, larger field of view
- Read noise as low as 1.6e-
- Back-illuminated, higher sensitivity
 - High value



Effective resolution	420万	Shutter	Electronic rolling shutter
Sensor sizePixels Size	1.2 inch	Cooling	Peltier cooling, lower than surrounding 15°C
Туре	6.5μm × 6.5μm	Scanning Mode	Progressive scanning / continuous output
Spectral Response	Mono / Color	A/D conversion	12Bit
	200-1100nm	Dynamic range	90.5dB
Resolution	2048 × 2048 22FPS	Full order capacity	/ 55Ke-
&	2048 × 1500 29FPS	Read noise	1.6e-
Frame rate	Any size ROI	External dimension	n 113.2 × 105 × 92.6 mm
Exposure time	22μs -120s		

Microscope camera MSX11

Feature

- 21.0 Megapixels high resolution
- ø 4/3 inch large sensor
- Built-in hardware ISP image processing sensor
- © Excellent sensitivity for fluorescence imaging





Specification

Effective resolution	2100万	Trigger mode	Software trigger
Sensor size	4/3英寸	Shutter	Electronic rolling shutter
Pixel Size	3.3μm × 3.3μm	A/D conversion	12Bit
Resolution	5280 × 3956	Image Cache	128Mb
Frame rate	21FPS	Software Interface	DirectShow/TWAIN/SDK
Exposure time	12μs-30s	Operating OS	Windows XP 32Bit; Windows 7/8/10 32/64Bit
Effective gain	1-16X	Power supply	USB 5V
Spectral Response	380nm-650nm	Working environment	t Temperature:0-40°C,humidity:10-90%RH (No condensation)
Scanning Mode	Progressive scanning / continuous output	External dimension	108.5mm× 106.5mm× 62.5mm

Microscope camera MSX2

Feature

- 12.5 Megapixels high resolution
- o 1 inch large sensor
- Accurate color reproduction, high sensitivity





Specification

Effective resolution	1250万		Shutter	Electronic shutter
Sensor size	1英寸		Effective gain	1-32x
Pixel Size	$3.1 \mu m \times 3.1 \mu m$		A/D conversion	12bit
Resolution	Resolution	Frame rate	Image Cache	64Mb
Frame rate	4088 × 3072	15FPS	Trigger mode	Software trigger
Spectral response	380-1100nm		Software Interface	DirectShow/TWAIN/SDK
Exposure time	41μs-10s		Operating OS	Windows XP 32bit; Windows 7/8/10/32/64bit; Linux
Scanning mode	Progressive scanning / cor	ntinuous output	Data interface	USB3.0 ,5Gb/s
External dimension	108.5mm × 106.5mm × 6	52.5mm	Working environment	$0\sim$ 40°C; humidity: $10\%\sim$ 90%RH (No condensation)

Microscope camera MSX1

Feature

- o 10 Megapixels high resolution microscope camera
- Built-in hardware ISP image processing sensor
- Excellent detail processing and color reproduction
- Super fast running speed





Specification

Effective resolution	10 Megapixels	Trigger	Software trigger
Sensor size	1/1.7 inch	Shutter type	Electronic rolling shutter
Pixel size	1. 85um X 1.85um	A/D Convention	12Bit
Resolution	3816 X 2832	Image format	TIF, BMP, JPG, RAW
Frame rate	36FPS	Image Cache	64Mb
Exposure time	8us-30s	Software data	DirectShow/TWAIN/SDK
Effective gain	1-16X	Operating OS	Windows XP 32Bit; Windows 7/8/1032/64Bit
Spectral response	380nm-650nm	Working surrounding	0 –40°C,working humidity:10%–90%RH(No condensation)
Scanning mode	Progressive scan/continuous output	Size	Ф76mm X 62mm

Microscope camera MS60

Feature

- 6.3 megapxiels, excellent color reproduction
- High sensitivity and low noise fluorescence imaging
- Used in pathological diagnosis
- Super fast running speed, smooth and fast data transmission





Effective resolution	6.3 Megapixels		Shutter type	Electronic rolling shutter
Sensor size	1/1.8 inch		Exposure time	6us-7s
Pixel size	2.4umx2.4um		Effective gain	1-16X
Resolution	3072 x 2048,	Frame rate	Spectral response	380-650nm
and Frame	Any size ROI	71FPS	A/D Convention	12bit
rate	71FPS		Image Cache	128Mb
Scanning mode	Progressive scan/contin	uous output		

Microscope camera MS23

Feature

- Output of the state of the s
- Weak fluorescence imaging
- Rich and vivid image display
- High-speed image preview





Specification

Effective resolution	2.3 Megapixels	Spectral response	380 - 1100nm
Sensor size	1/1.2 inch	A/D Convention	12bit
Pixel size	5.86umx586um	Image Cache	64Mb
Resolution	1920x1200	Software data	DirectShow/TWAIN/SDK
Frame rate	40FPS	Operating OS	Windows XP 32bit; Windows 7/8/10 32/64bit; Linux
Scanning mode	Progressive scan/continuous output	Data interface	USB3.0 Type B interface, 5Gb/s
Shutter type	Global shutter	Working surrounding	Temperature: 0-50; humidity: 10%-90%RH(No condensation)
Exposure time	20us-42s	Size	Ф76mm x 65.6mm

Microscope camera MS50-S

Feature

- Good clarity and accurate color reproduction
- Suitable for imaging in low light
- Support USB3.0, built-in 64Mb cache, image transmission of high-speed and stable





Specification

Effective resolution	0.5 Megapixels		Exposure time	46μs – 10s
Sensor size	2/3英寸		Effective gain	1x - 16x
Pixel size	$3.45\mu m \times 3.45\mu m$		Spectral response	380 – 650nm
	分辨率	Frame rate	A/D Convention	12bit
	2448 × 2048	37.5FPS	Image Cache	64Mb
Resolution	1920 × 1080	56FPS	Software data	DirectShow / TWAIN/ SDK
and Frame	$1224 \times 1024 (BIN2)$	37.5FPS	Operating OS	Windows XP 32bit; Windows 7/8/10 32/64bit
rate	$1224\times1024(\text{SUM2})$	37.5FPS	Data interface	USB3.0 Type B interface, 5Gbps
	$1224 \times 1024 (SKIP)$	37.5FPS	Power supply	USB 5V power supply
	Any size ROI		Working surrounding	0-50*C; humidity: 10%-90%RH (non-condensing)
Scanning mode	Progressive scan/continu	ious output	Size	108.5 X 106.5 X 62.5 mm
Shutter type	Global shutter			

Microscope camera MD50/MD30

MD50 feature

- ⊚ 5.0 Megapixels cost-effective camera
- Built-in 32M cache
- Accurate color reproduction





MD30 feature

- 3.0 Megapixels cost-effective camera
- Built-in 32M cache
- Strong stability, compatible with various systems and software platforms





Specification

Item	MD50		Scanning mode	Progressive/continuous output	Item	MD30		Exposure time	47μs-3s
Effective resolution	n 0.5Megapixels		Shutter type	Electronic rolling shutter	Effective resolution	0.3Megapixels		Effective gain	1-8X
Sensor size	1/2.5 inch		Exposure time	59us- 3s	Sensor size	1/2 inch		Spectral response	380nm-650nm
Pixel size	2.2μm×2.2μm		Effective gain	1x- 8x	Pixel size	3.2μm×3.2μm		A/D Convention	8bit
Resolution	Resolution Fr	rame rate	Size	Ø76 × 48.7mm	Resolution	Resolution	Frame rate	Image Cache	32Mb
&	2592×1944 7F	FPS			&	2048x1536	12FPS	Software data	DirectShow/TWAIN/SDK
Frame rate	Any size ROI				Frame rate	Any size ROI		Size	Ø76mm × 48.7mm
					Scanning mode	Progressive/co	ntinuous	Working	Temperature: 0-50; humidity:
					Shutter type	Electronic rolli	ng shutter	surrounding	10-90%RH(No condensation)

Macro camera ME40/ME30/ME20

Feature

- Auto focus, optical zoom, convenient for image shooting
- High frame rate high resolution, perfect color reproduction
- Fast image, images can be previewed, stored, and measured
- Three-button foot switch, zoom in and out, take photos with one button





Item	ME40	ME30	ME20
Effective resolution	0.8 megapixels	1.3 megapixels	0.5 megapixels
Sensor size	1/3.2 inch	1/3英寸	1/4 inch
Pixel size	$1.4\mu m \times 1.4\mu m$	$1.12 \mu m imes 1.12 \mu m$	$1.4\mu m \times 1.4\mu m$
Resolution&Frame rate	3264 × 2448@15FPS	4139 × 3104@8FPS(1300万)	2592 × 1944@15FPS
Focus	10X optical zoom/Auto	Auto focus	Auto focus
White balance	Auto /manual	Auto/manual	Auto/one button
Exposure control	Auto/manual	Auto/manual	Auto/manual
Working temperature	0-70°C	0-50°C	0-50°C
Size	58.5mm X 64mm X 120mm	114mm X 69mm X 53mm	60mm X 112mm



WIFI Camera MD80-W

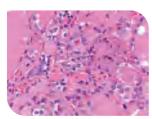


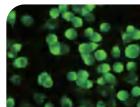
Feature

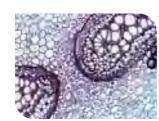
- WIFI/USB camera, convenient switching mode
- High resolution, fast transmission speed
- The imaging effect is better than traditional cameras

Specification

Item	MD80-W		
Effective resolution	n800万		
Sensor size	1/1.8 inch		
Pixel size	$2\mu m \times 2\mu m$		
Resolution	Resolution		Frame rate
&	3840×2160 (WIFI	mode)	5-10FPS
Frame rate	$1920\times1080~\text{(WIFI}$	mode)	30FPS
	$3840 \times 2160 \text{(USB)}$	mode)	24FPS
Image settings	Brightness,contrast,s	saturation,flicker suppr	ession,Gamma, photo, video









Microscope camera MD28-W

Feature

- Windows 10 operating system
- Mard disk capacity: 64GB, memory capacity: 2GB
- Scientific CMOS sensor
- Sensor size 1/2.3 inches, effective resolution 16 Megapixels

Specification

	Screen size	11.6 inch
	Sensor size	1/2.3 inch
	Effective resolution	16 Megapixels
Windows	Frame rate	30fps@1080P
tablet	Output data	USB2.0,HDMI,TF (integrated WIFI)
screen	Pixel size	1.335μm×1.335μm
camera	Power line	DC-12V/2A
	UI interface	Digitization, Mouse controllable, Friendly design
Image	Marking	Point coordinates, cross lines, coordinate systems, text annotations
analysis	Measurement	Line length, fold line length, curve length, parallel line distance, point line distance
function	2 points circle	Radius set circle, 2-point set circle, 3-point set circle
	Geometric measurement	Line length, radius, 2 points circle, 3 points circle, concentric circle
	Geometric area	Polygon, Square



Microscope Interactive Teaching System

It's a network teaching software design for microscope interactive teaching. It has wired version and wireless version. The wireless one is optimized for the wireless network response speed and image quality. The system builds smart classroom with digital microscopes and network, providing screen sharing, teaching examinations, centralized control management and other functions.

Application







	Function list					
Divide/Merge class	Remote desktop	Grouping	Send job	Sinternet access control	Student presentation	
Screen broadcast	Remote control	Group discussion	Colleaction job	U disk restrictions	Demonstration teaching	
Voice broadcast	Remote setting	Group teaching	Class model	CD drive restriction	Teacher-student intercom	
Network cinema	Student restrictions	Exam	Rollin-class call	Application restrictions	Exit student login	
Live video	No talking	In-class test	Internet record	Synchronize student computers	Clear unlogged users	
Whiteboard	Black screen	File transfer	Asset	Modify student channel	Lock the student icon position change	
Screen recording	Remove black screen	Send messages	Management	Lock screen	Students actively submit homework	
Student answer	Remote uninstall	Send notification	Telematics	Process defence	Teacher log	

Feature

Compatibility



Team management

- Sign-in and roll call: help teacher manage students login and attendance
- Group management: Participate in teaching activities as a group

Cloud storage



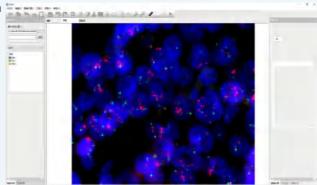
Exam system

- In-class survey and answer contest provide teacher real-time and intuitive study data for accurate teaching strategies
- Variety activities for interesting learning

FISH (Fluorescent In Situ Hybridization)Image Analysis System

Feature:

- Fast auto zone exposure, rapid prototype, auto dye, one-key merged
- Capture various colors fluorescence, satisfy all probes
- Smart enhance weak fluorescence signal, remove background impurity



► Graphic Report Analysis Management Software

Feature:

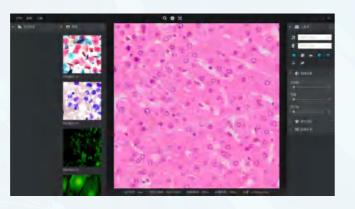
- Free design according to customer needs
- All control elements are adjusted by actual needs
- Equipped with MSHOT microscope camera

DEEP'S		数层处	
MSHOT	明美人民医院B PEOPLE'S HOSPITAL CENTE 骨髓检验结	R FOR CLINICAL LABORATORY	2212 25000 3500
日本条码。 東大姓名。 空間。 日前: 日前: 日前: 日前:	透照。 科學(门沙/拉胺吗。 房 疾吗。 申 顺便生, 类数标点。	实验母。 运物标本。 标本维克。 采样的因。 排物的因	实时预览区
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	\$2.00 \$1.00 3 \$1.00 3	· 模板预览区	图像列表区

▶ Digital Microscope Imaging Analysis System

Features:

- Professional applied to microscope digital imaging
- Integrated software and hardware system
- Live view, image capture, video, analysis, etc.
- Support Directshow interface camera



► All-in-one microscopy



Feature

- 10 megapixels autofocus imaging system
- With transparent thermal plate
- Control analysis system with touch screen

Dual light path customization



Feature

- For fluorescence imaging comparison
- Simultaneous imaging of two light paths
- Imaging overlap rate is over 90%, high efficiency

Cell scanning platform

- Precisely control motorzied stage XY movement to adjust sample position
- Scan slides quickly and stably by rectangular area back and forth, free choose scan area
- Support auto focus to ensure that every frame image is recorded clearly
- Real-time image display and save image information in time

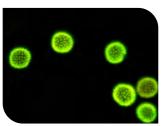


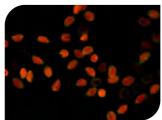
Number	Productname	Performance
		X, Y axis movement resolution 0.5um
		One-way accuracy: <10um
1	Microscope XY stage	Repetition accuracy: <3um
		X, Y axis with zero limit
		XY axis accuracy: XY axis is 6400 pulses / circle = 1mm stroke
		Rotation resolution 1/3200°
2	Digital microscope focusing device	Focus accuracy 0.0625um
		Z axis 25600 pulses/circle=0.2mm stroke
		XY axis with PKP223D15B2-L two-phase stepper motor, 1.8° basic step angle
		Z-axis with PKP233D23A-L two-phase stepper motor, 1.8° step angle
		Contains 3 stepper motor drivers
3	Stepping motor and motor driver	XYZ axis with hybrid stepping motor DM442, voltage input range: 18-36VDC Maximum current: 4.2A, resolution 0.1A
		Subdivision range: 200-512000pr
		3454171310111411gc. 200 312000p1

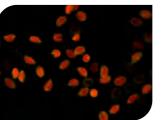
Monocular fluorescence

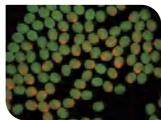


- Various magnification objectives and fluorescence bands
- Simplified and compact design, not take up space
- © Convenient to carry and use, integrated to machine









such as Drosophila

Feature



High magnification stereo fluorescence microscope







Simple stereo fluorescence

Simple and easy-to-install for single fluorescence

Mainly used for 3D samples of strong fluorescence,

Feature

- Output Description
 Output Descript
- Quintuple double light path nosepiece, work for more fluorescent reagent
- 9 10X/20X special objectives, extremely high magnification, up to 800-2000X (depends on objectives and eyepiece), low magnification screening and high magnification observation are realized on the same machine
- Frame linkage, field of view center remains with exchange objective, fixed-point observation

Digital slide scanning system



Feature

- Traditional microscope is quickly converted into a slice scanner
- Highly digitized sample scan imaging
- Accurate and fast full closed-loop autofocus
- High-precision three-dimensional motion platform
- High frame rate data collection, peak frame rate>100Fps
- Fast seamless splicing, global picture can be output in seconds
- Smooth slide reading software and open imaging data

Specification

Product name	Microscope digital slide scanner
Scanning speed: $10 \times (15 \text{ mm} \times 15 \text{ mm})$	<40 s
Scanning speed: $20 \times (15 \text{ mm} \times 15 \text{ mm})$	<90 s
Applicable slides	26 mm × 76 mm (厚度: 0.9 mm - 1.2 mm)
Slide clamp	Monolithic
Image splicing	Seamless splicing (out put image immediately)
Interactive	Electronic hand wheel + microscope adjustable illuminator
Data Format	.srp (Open Data Interface)

Slide Scan Software combines with motor stage displacement accuracy of 0.1um, control with real-time feedback closed-loop Zaxis to ensure the best scanning and focusing.

Slide Viewer Software is a professional image viewer independently developed by MSHOT. Free to zoom image adjust color, ensure the best image browsing experience and data.

Ultra-high precision:repositioning ≤0.1um, step resolution up to 50nm

Mute and smooth: piezoelectric ceramic motor drive with high-precision and low-noise imported slide rails

> XY Piezoelectric displacement platform system MU-110

- Strong adaptability:workable for most models of famous brand upright and inverted microscopes
- Strong expansibility: can offer complete SDK used for secondary development



Specification

Minimum step	0.05μm (optical grating display)
Repositioning accuracy	±0.1 μm
Highest speed	X axis: 30mm/s Y axis: 30mm/s
Stage size	295mm × 240mm × 31mm
Effective travel distance	X axis ±55; Y axis ±37.5
Axial thrust	X axis: 14N Y axis: 7N
Maximum load capacity	1KG
Motion parallelism	<10µm
Recommended running speed	<30mm/s

Motorized Z axis

Feature

- o International standard stepper motor to realize auto control of focusing
- $\, \odot \,$ Cross ball rail to ensure stable movement, large load capacity and long life
- $@ \ \ Coupling \ connect \ stepping \ motor \ with \ ball \ screw, \ greatly \ reduce \ eccentric \ disturbance \ and \ noise$
- O Cooperate with XY stage to form a multi-dimensional electric platform
- O Can be customized, exchange to servo motors, add rotary encoders, etc.



Motorized nosepiece

Feature

- O Accurate positioning: precision gear transmission and mechanical positioning
- Strong adaptability:universal bayonet, suitable for most famous brand microscopes, easy to install
- © Ergonomics:ergonomic design, friendly to use



Motorized fluorescentce switch

Feature

- Accurate positioning: high-precision motor drive switching + photoelectric switch positioning, strong repeatability
- Simple structure: modular design of internal structure and good stability
- Our our choices: offer different fluorescence excitation according to requirements to meet the customer needs



After-sales service

MSHOT products provide 1 year free warranty and lifetime support. Promise to respond within 24 hours of working day, providing remote online support, operation instructions and video guidance. Headquartered in Guangzhou, the company has distributors and cooperators covering all continents and continues to expand. Relying on professional technology and high-quality service, the company has established a good cooperative relationship with customers. In terms of market expansion, the company will improve and strengthen the construction of customer service network, strengthen the long-term cooperative relationship with existing customers, and continue to establish branches across the country, so as to achieve solid business accumulation and deep market network coverage.

