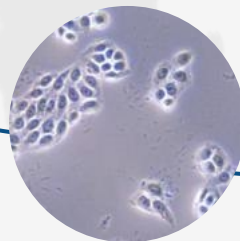
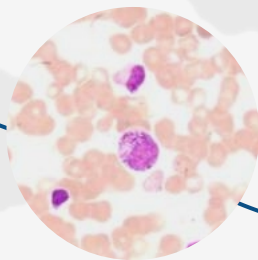
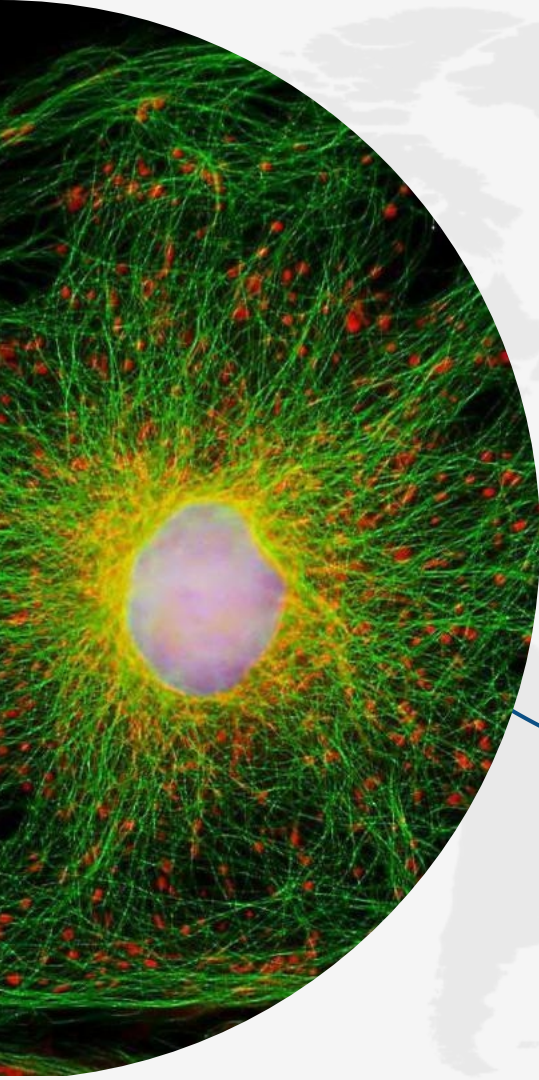


**Mshot 明美**

# **Microscope & accessories Manufacture Solution Provider**

— Guangzhou Micro-shot Technology Co., Ltd —  
[www.m-shot.com](http://www.m-shot.com)  
[sales@mshot.com](mailto:sales@mshot.com)





# Who we are?

**Mshot** 明美

Microscope products manufacture & supplier

Microscope solution provider

Olympus third party supplier

Self-owned brand **Mshot**



# What we are doing?

Mshot 明美

Looking for distriutors

Offering microscope and accessories

Accept OEM & ODM service

# Who are our customers?

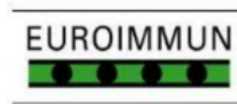
MshOt 明美

- Institutes of bio-science and life science
- University lab and school
- Scientific research center
- Hospital and clinical center
- Medical industry company
- Reagent manufacture
- Microscope dealer

OLYMPUS



Leica



L'ORÉAL  
PARIS





# Company background

**Mshot** 明美

- Founded in 2003, MICRO-SHOT is headquartered in Guangzhou City China. It has established brand MSHOT, focusing on the R&D and sales of optical microscope and imaging products, and is committed to the localization of research grade microscopes and important components.
- At present, in terms of research-level microscope and digital imaging product development and technical reserve, MSHOT is in the forefront of China's peers, representing the leading level of China's micro imaging industrialization.



## **Identity**

Micro-imaging system solution provider

## **Vision**

To be leader of China's micropic imaging industry

## **Core value**

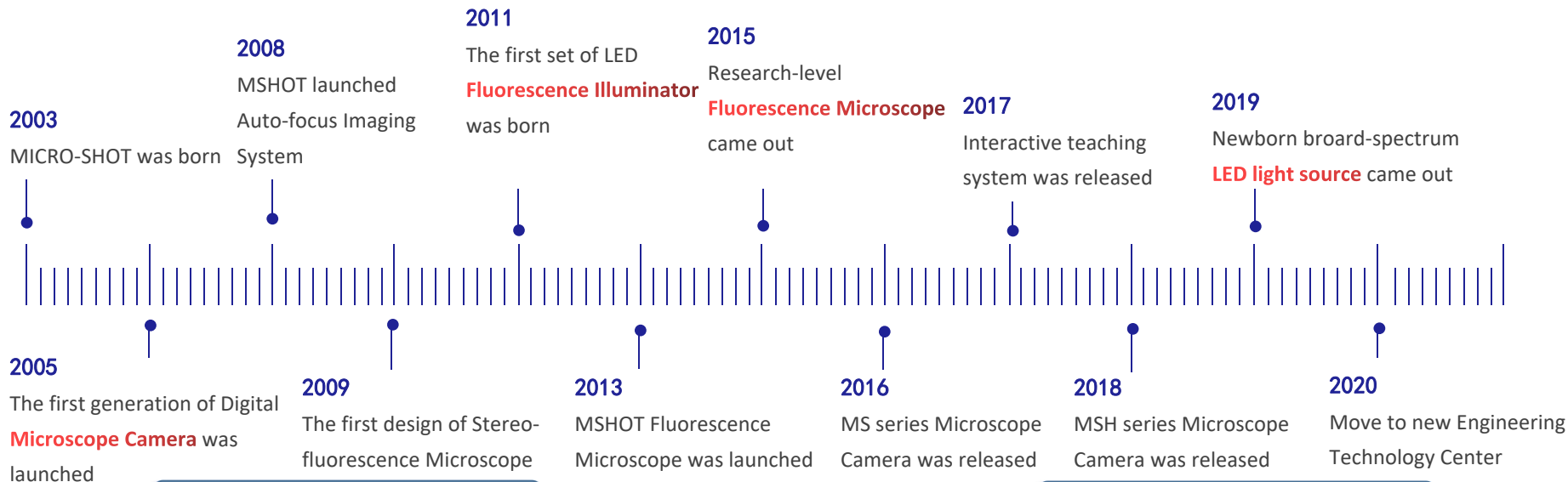
Integrity Innovation Cooperation Service

## **Mission**

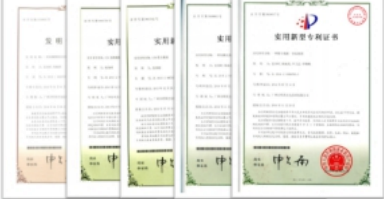
Maximize value of solutions and service

# Development: 18 years

Mshot 明美



Patents



Certificates



Software copyright

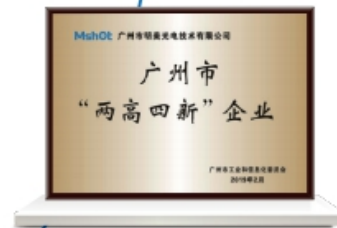


# Qualification Honor

MshOt 明美



High-tech Enterprise



Innovative Enterprise



CE Certificate



EU Certificate



FCC Certificate

# MSHOT Surrounding

Mshot 明美



Factory - 2th floor



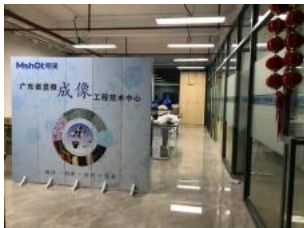
Technical center



Head office

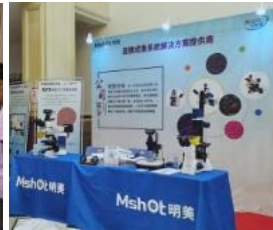
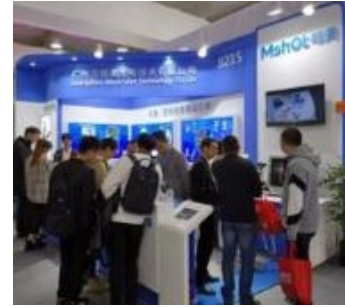


Reception



# MSHOT Activities

Mshot 明美



We attend 15~20 exhibitons and conference evey year.



# Products line

MshOt 明美



Biological microscopes



Fluorescence microscopes



Stereo



Polarizing



Metallurgical



Camera



Light source



Attachments

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Hot sale models

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# Biological microscopes / Upright type



ML10 Trinocular



ML11 Trinocular



ML31 Trinocular



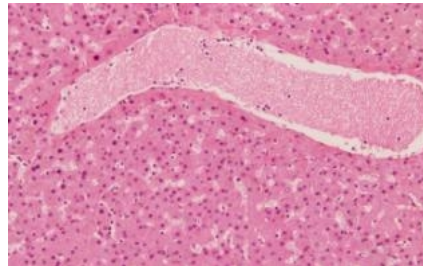
ML11 Binocular



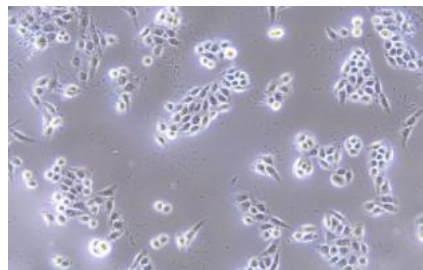
All of trinocular  
microscopes can  
add camera



# Biological microscopes / Inverted type



Bright field



Phase contrast

MI52-N inverted biological microscope with phase contrast

# Fluorescence microscope / Upright type

Mshot 明美

MF31 Fluorescence microscope  
Common use



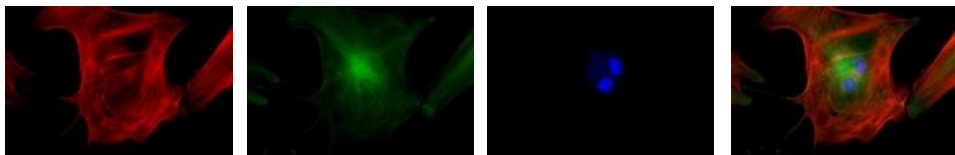
Single color

Two/Three colors

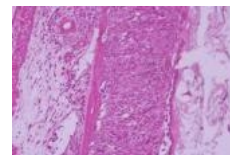
MF31 Fluorescence microscope  
Scientific grade



Fluorescence observation



Bright field observation

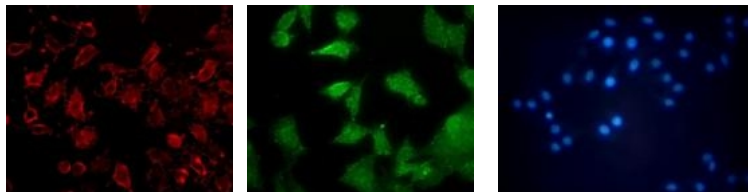


# Fluorescence microscope / Inverted type

MF52-N Fluorescence microscope  
Common use



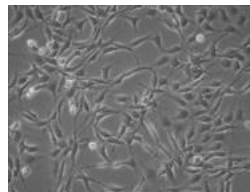
Fluorescence observation



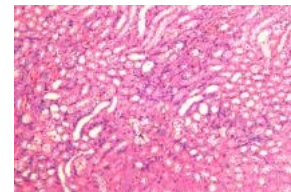
MF523-N Fluorescence microscope  
Scientific grade



Phase contrast observation



Bright field observation

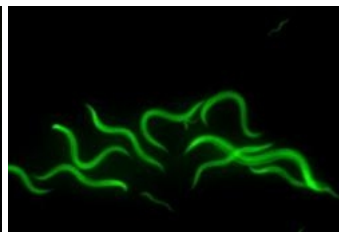
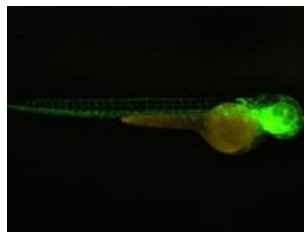
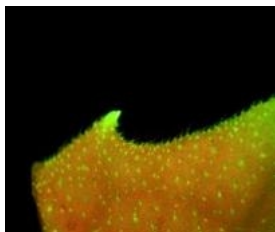


# Stereo-Fluorescence microscope

MZX80 Stereo-Fluorescence microscope  
Entry level



MZX81 Stereo-Fluorescence microscope  
Scientific grade



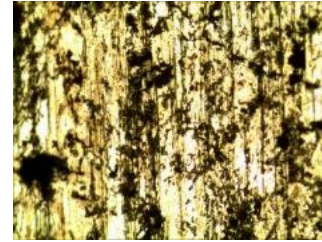
# Metallurgical microscope

## Upright & Inverted type

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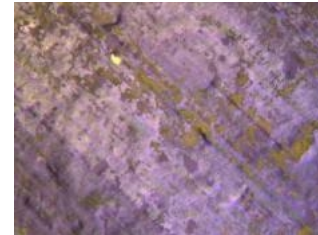
MJ31 Metallurgical microscope  
Common use



Bright field observation



MJ43 Metallurgical microscope  
Scientific grade



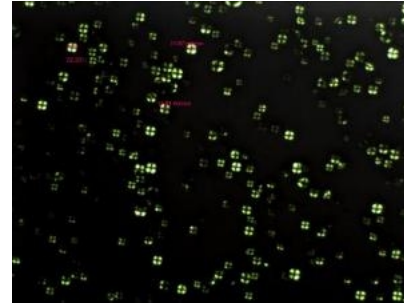
Equipment with  
simple polarizing function

# Polarizing microscope

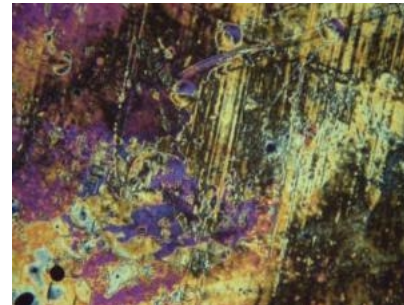
Mshot 明美



ML31-P  
Simple level



MP41  
Professional level





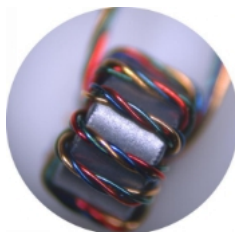
# Stereo microscope - 3D performance



MZ62 Stereo microscope  
Zoom 6.7X~45X



MZ101 Stereo microscope  
Zoom 7X~63X



# Microscope cameras

Mshot 明美



MD30  
USB2.0  
1/2"  
3MP



MD50  
USB2.0  
1/2.5"  
5MP



MS60  
USB3.0  
1/1.8"  
6.3MP



MSX1  
USB3.0  
1/1.7"  
10.0MP



MS23  
USB3.0  
1/1.2"  
2.3MP



MC50-S  
USB3.0  
2/3"  
5.0MP



MSX11  
USB3.0  
4/3"  
21.0MP



MSX11-C  
Cooling  
USB3.0  
4/3"  
21.0MP



MD26-HD  
HDMI & USB2.0  
1080P  
5MP



MD80-HD  
HDMI  
4K  
8MP



MD80-W  
WIFI & USB  
4K  
8MP



MD28-W  
USB & WIF  
1080P  
16MP  
Windows 10

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# MSHOT Imaging Software

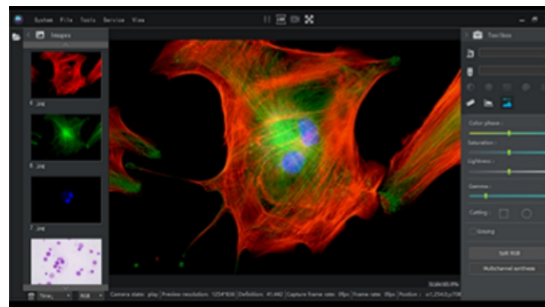
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# Software - MSHOT Digital Imaging Analysis System

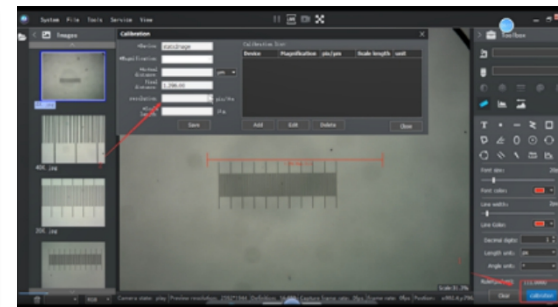
Mshot 明美



Bright field

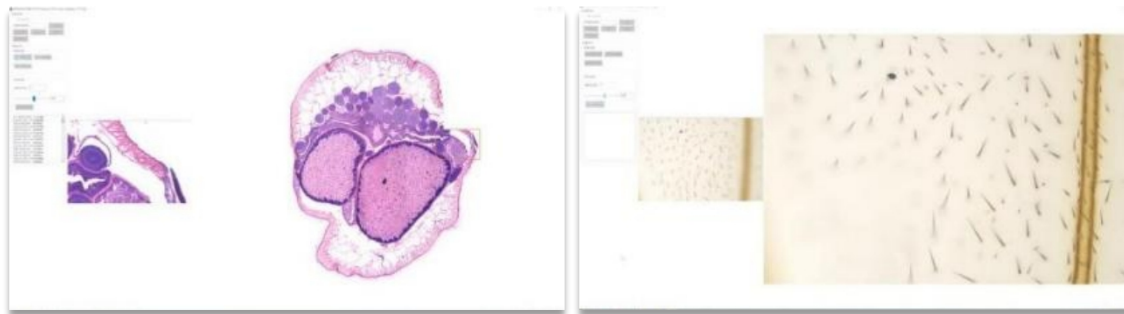


Fluorescence



Measurement

Auto image splicing



Auto EDF  
Extend depth of field

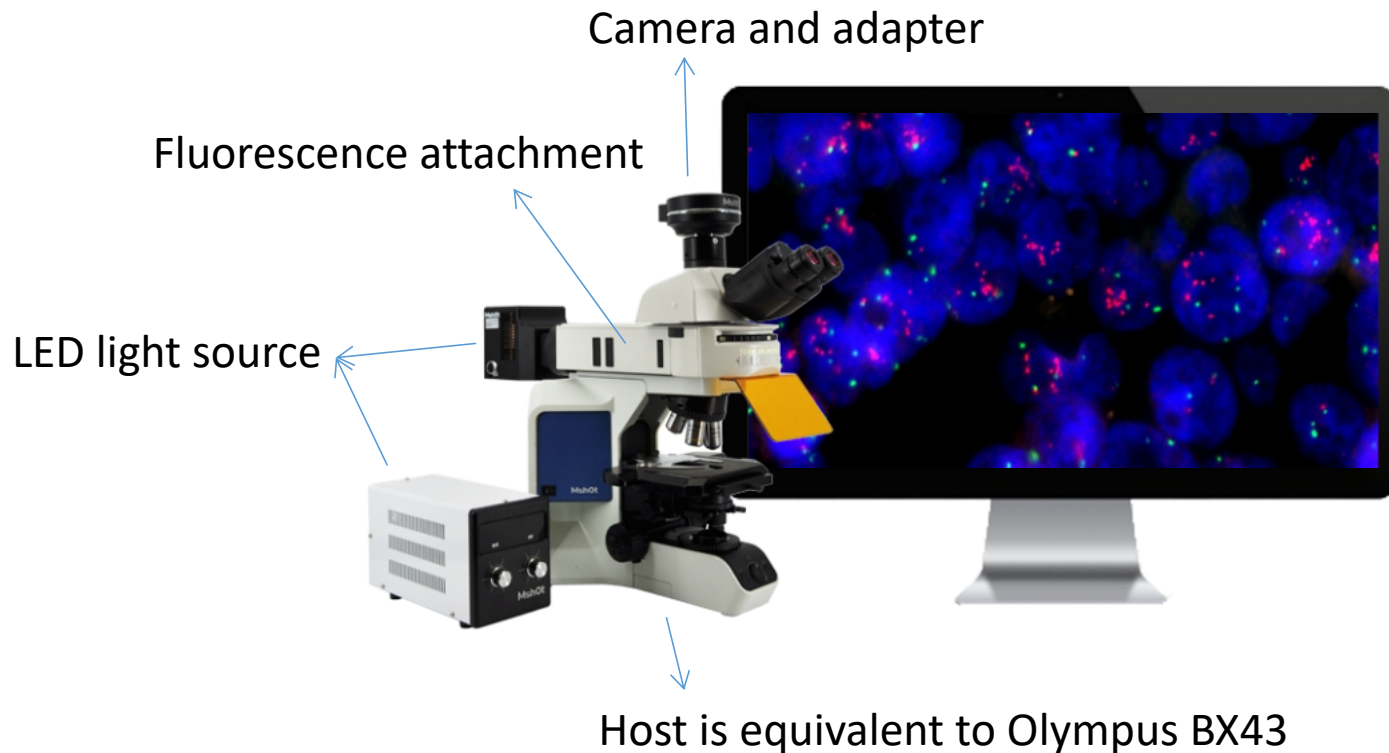
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## Advanced Microscopes & Technology

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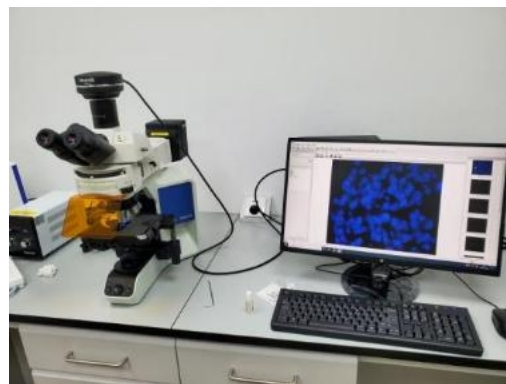
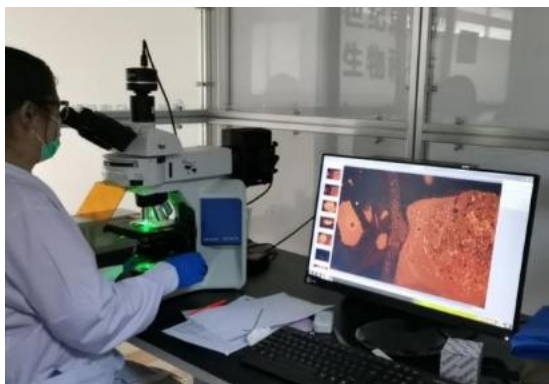
# Research-level Upright Fluorescence Microscope MF43-N

Mshot 明美



## MF43-N Cases

Mshot 明美



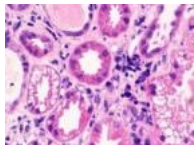


# Suitable for different observation method

## Bright field and fluorescence

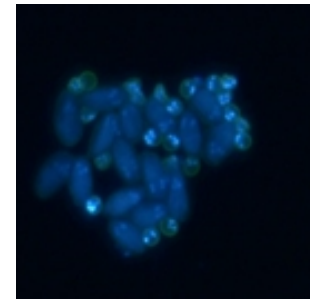
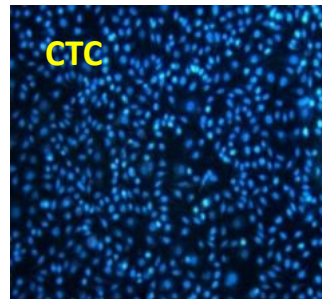
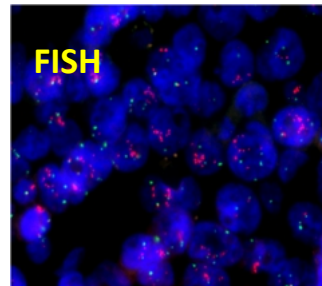
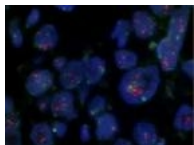
### Bright field

With low power and high quality U-AC condensor, it can meet the continuous observation of 4x to 100x (oil mirror), higher resolution and better flat field performance can be obtained at all magnification.



### Fluorescence

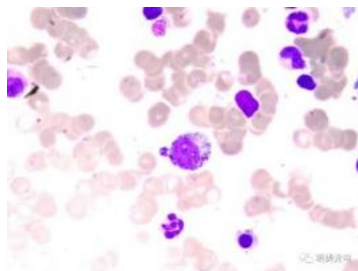
The design of 6-hole turntable fluorescent module, which can replace the excitation block independently, has a wide range of applications and high signal-to-noise ratio. It is suitable for FISH / CTC / cryptosporidium / immunofluorescence and other fluorescence fields.



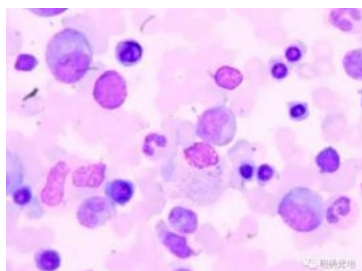
# MF43-N Warm light LED lamp

## Bright field illuminator

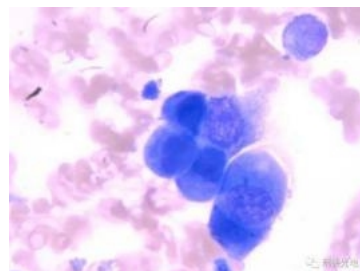
Upgrade the color temperature of light source,  
add double convex mirror and frosted glass,  
retain the original circuit control.



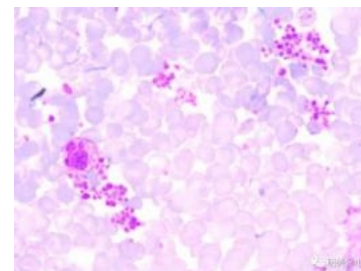
Toxic granules



Gaucher's disease



Metastatic carcinoma of  
bone marrow



Polycythemia vera

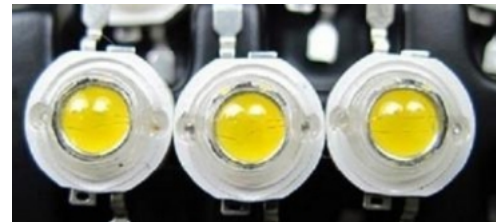
# Broad-spectrum high power LED light source

## —Alternative mercury lamp

MshOt 明美



- Replace the traditional mercury lamp light source.
- It can be used in fluorescence microscope to overcome the shortcoming of narrow spectrum of single LED light source.

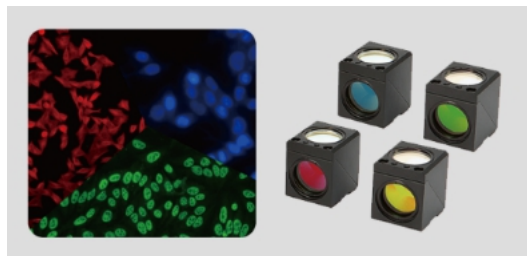


### Advantages of LED light source

LED has become a new light source for lighting and display in the 21st century.

# Research-level Inverted Fluorescence Microscope MF53-N

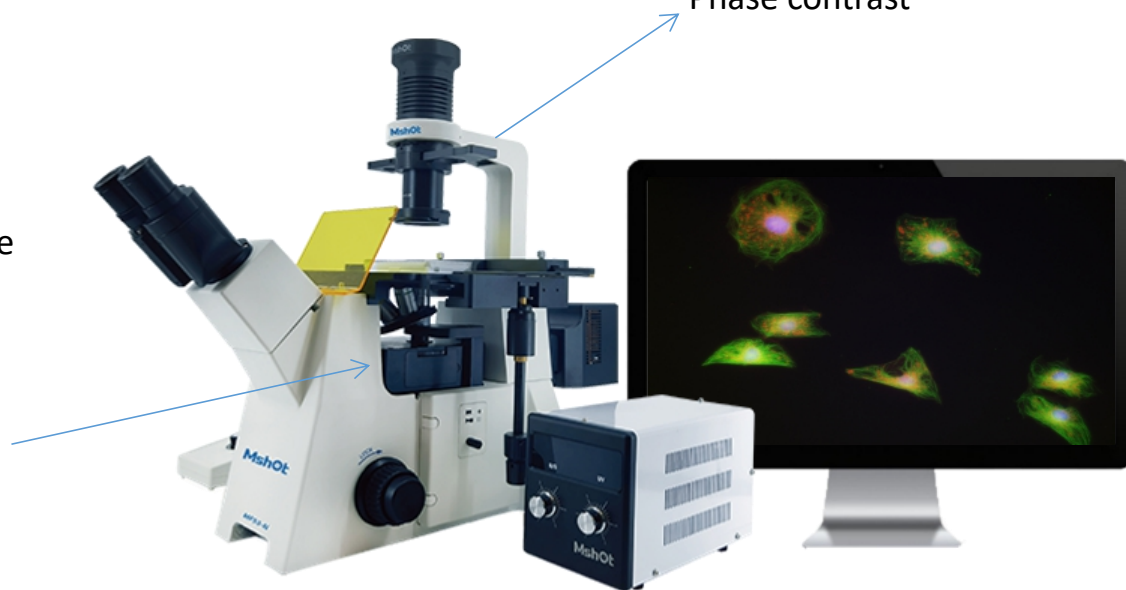
MshOt 明美



5 cubes/6 cubes fluorescence module

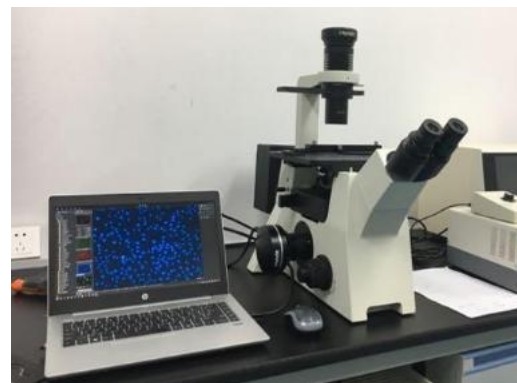
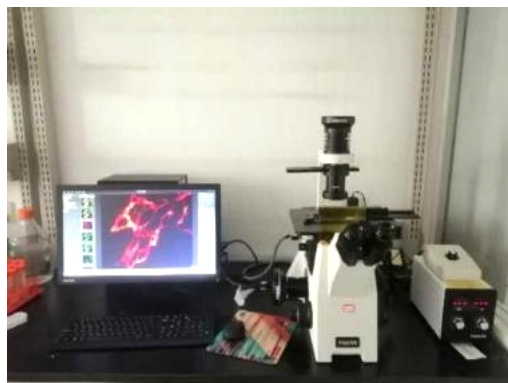


Phase contrast



## MF43-N Cases

Mshot 明美



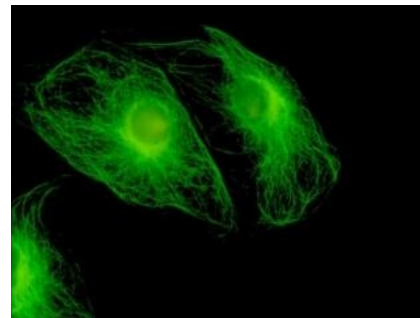
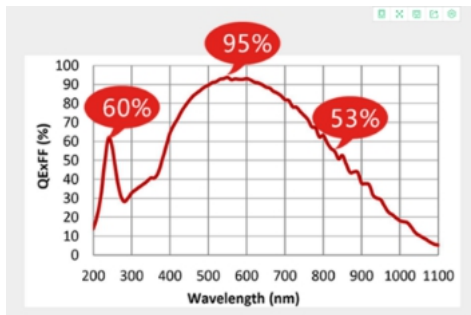
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## Advanced Cameras & Technology

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# Back illuminated SCMOS Camera MSH12

Mshot 明美



Back illuminated



Effective resolution 4.2 megapixels  
1.2 inch sensor



Peltier cooling, cooled to  
15 °C at room temperature

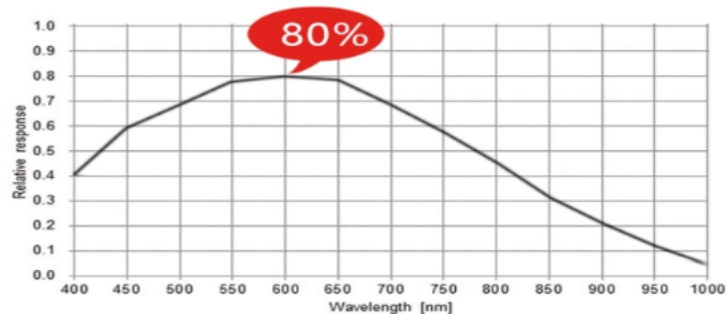
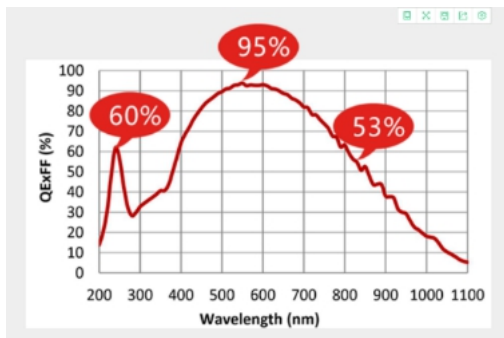


Fluorescence imaging  
Spectral imaging



# Back illuminated SCMOS Camera MSH12

## Quantum efficiency



- Quantum efficiency is the probability of photons converted into photoelectrons at a certain wavelength, which is related to the wavelength.
- The quantum efficiency of MSH12-BI has been greatly improved, and the quantum efficiency has reached an unprecedented 95% at 560nm.

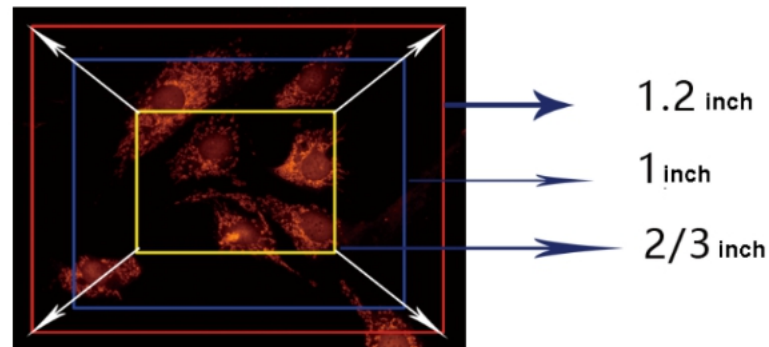
# Back illuminated SCMOS Camera MSH12

## Large size sensor

Mshot 明美

1.2 inch provides wider field of view

The 1.2 inch large chip has larger photosensitive area and better imaging effect, which brings a larger field of vision for the observer and provides a more direct full field observation effect.

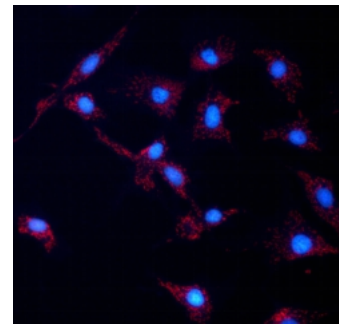
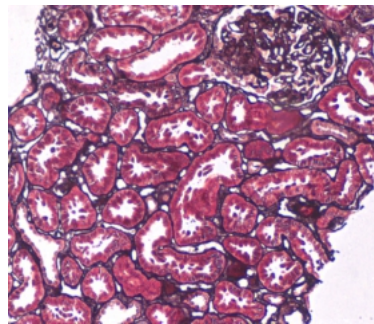
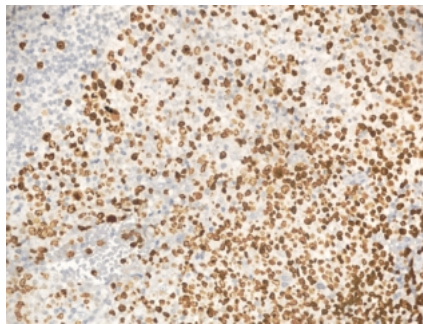
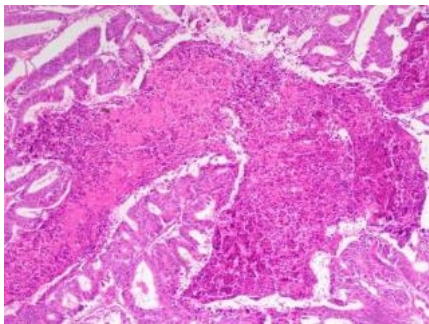


# High resolution & high sensitivity camera MSX11/MSX11-C

Mshot 明美



- 21.0 Megapixels
- 4/3 inch sensor
- Superior for fluorescence imaging
- Built in hardware ISP image processing chip
- Excellent detail processing and color reproduction
- Efficient data processing, up to 21fps at full resolution
- Cooling -15°C for more pure image and reduce noise



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## Advanced Attachments & Technology

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# Thermal plate—Patent product

MshOt 明美



Unique / independent R & D in China

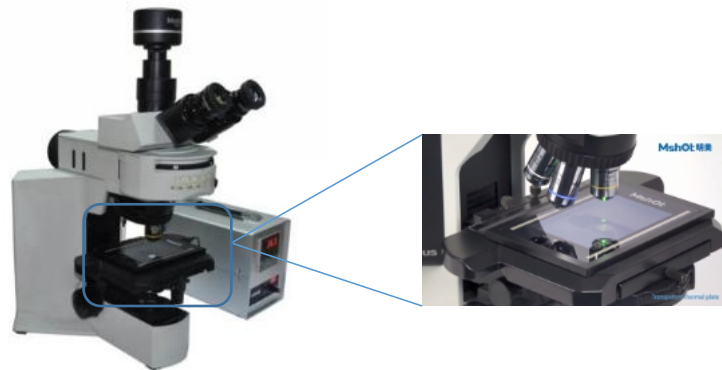
# Transparent heating stage & thermal plate

## TP-M

MshOt 明美

### Features:

- 0.5mm/0.7mm ultra thin design
- Room temperature - 50 °C ( $\pm 0.3$  °C precision)
- Heating speed can be controlled to meet your personalized experimental needs

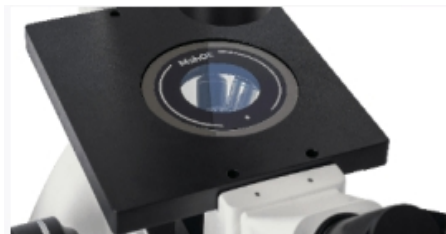
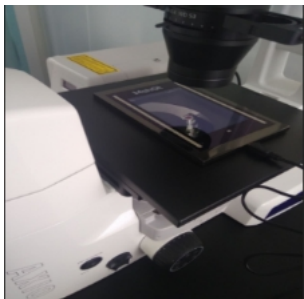


**Used to heat culture dishes / slides to keep object at stable temperature.**

Transgene experiment reported by China Central Television

# Transparent thermal plate-TP-M

Mshot 明美





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## Featured Illuminators & Technology

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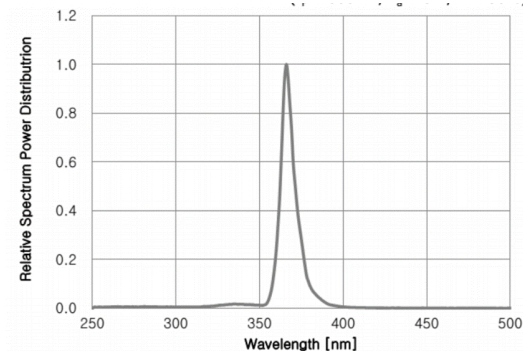
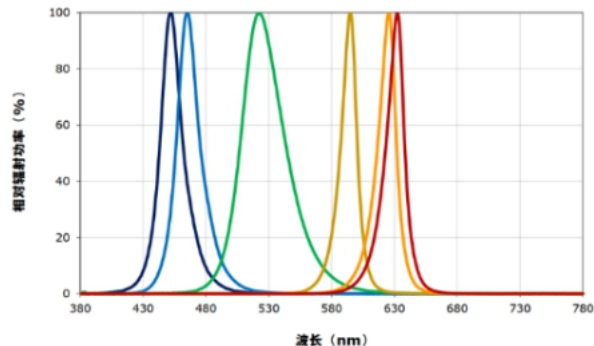
## LED Fluorescence Illuminators

- Used to upgrade all types of infinite optical system microscope to fluorescence function
- MSHOT is the first microscope manufacturer in China to make fluorescence module



# LED Fluorescence illuminator excitation wavelength

Model	LED lamp	Filter wavelength			Recommend Application
		Excitation	Dichroic mirror	Emission	
B	Blue	475/40nm	>500nm	535/45nm	GFP / FITC /EGFP/ Malaria diagnostic/ Alexa 488 / Cy2@ / Fluo-4 / FluorX@ / Fluoro-Jade
RB	Royal blue	420-480nm	>500nm	510nmLP	Tuberculosis Diagnostic
G	Green	525/45nm	>560nm	595/60nm	PI / EB / EH
	Yellow	560/40nm	>600nm	610nmLP	mCherry / Texas Red / AlexaFluor 594
U	UV	330-380nm	>400nm	420nmLP	DAPI / Hoechst 33342&33258 / AMCA/AMCA-X / Alexa 350



# LED Fluorescence Illuminator MF-LED

Mshot 明美

- For upright biological microscope upgrade to fluorescence
- Single color model / Multi-colors model
- 330nm~580nm is optional



Olympus



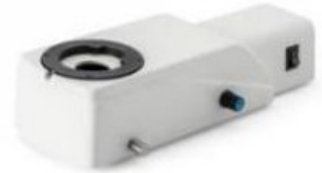
Nikon



Leica



Zeiss



Single color model



Multi-colors model

## Plug-in type LED Fluorescence Illuminator MF-LED-CX43

Mshot 明美

- Special for Olympus CX43 and CX33
- Single channel
- Dual channels
- Reflected white lighting



Plug-in



Single channel



Dual channels

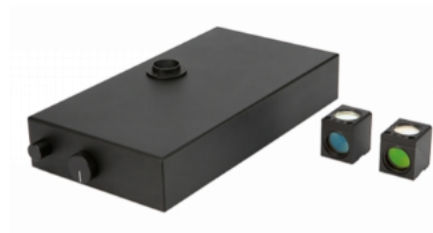


Reflected white lighting

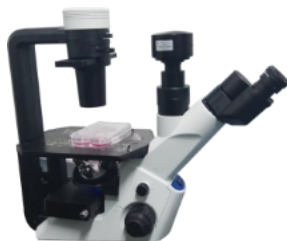
## LED Fluorescence Illuminator MI-LED

Mshot 明美

- For Olympus inverted microscope upgrade to fluorescence
- BGU 330nm~580nm is optional



CKX41



CKX53



IX73



IX71

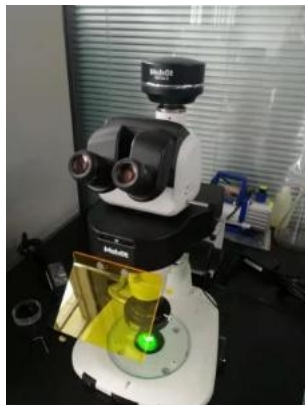
# LED Fluorescence Illuminator MZX-LED

Mshot 明美

- For infinite optical system stereo microscope upgrade to fluorescence
- BGU 380nm~580nm is optional



Olympus



Nikon



Leica



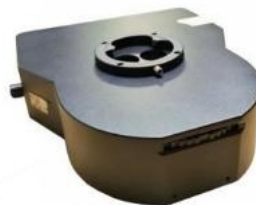
Zeiss



Single channel



Dual channels



BGU channels

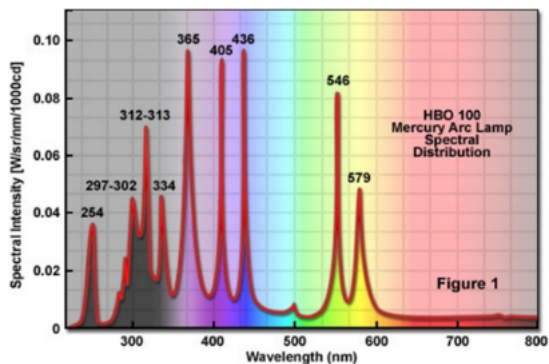


## Broad-spectrum LED light source MG100 MG30

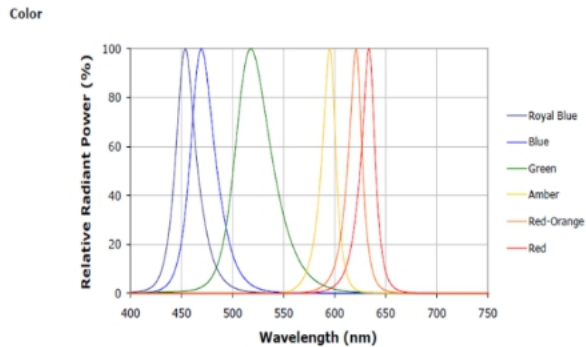
- MG100: 100W LED lamp lighting for fluorescence microscope
- MG30: 30W LED lamp for reflected white lighting
- Continuous BGU excitation wavelength covers 330nm~750nm
- Universal works for Olympus Nikon Leica Zeiss



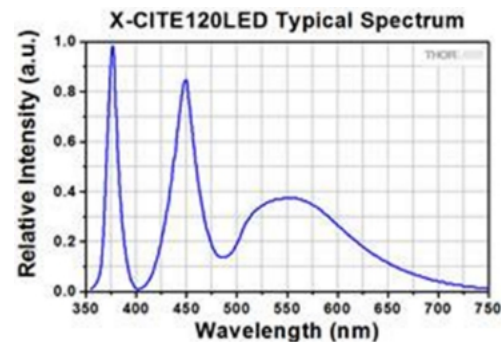
# Wavelength difference of different lighting



Traditional mercury lamp



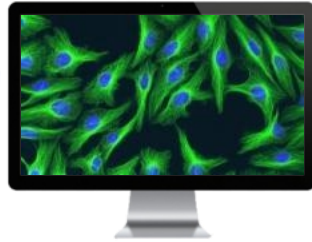
Monochromatic LED light source



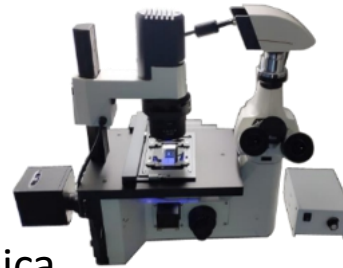
Broad spectrum

Broad-spectrum LED light source  
works with different brands of microscope

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Nikon



Leica



Olympus



Zeiss

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What we are doing for future?

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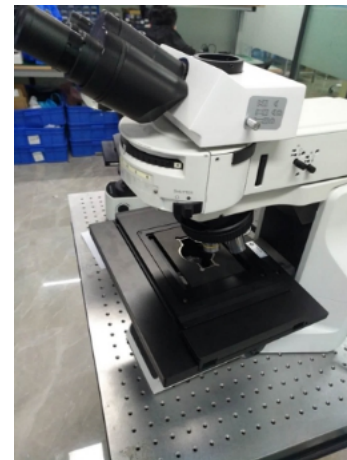
# Piezoelectric ceramic motorized stage

## Features :

- Realization of motorized XYZ positioning of microscope samples
- High speed, high precision (nano scale) scanning
- It can be combined with Nikon, Olympus, Zeiss and MSHOT
- Accept customized products of different sizes

## Application area :

High precision positioning and scanning experiment, customization and integration of automatic microscope system



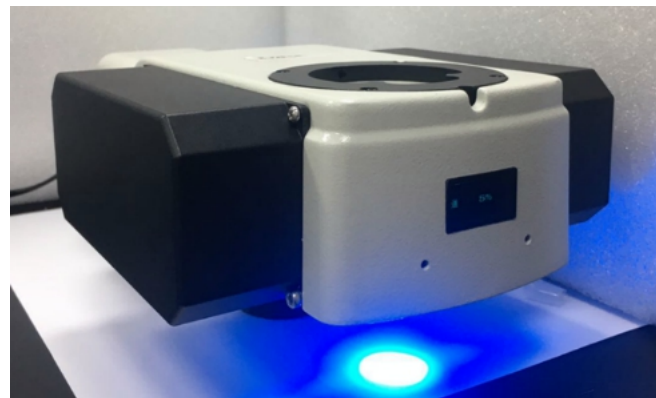
# Digital display LED fluorescence illuminator

## Remember light intensity

Mshot 明美



For inverted microscope



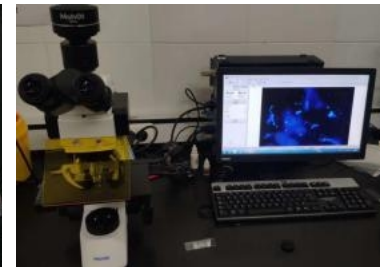
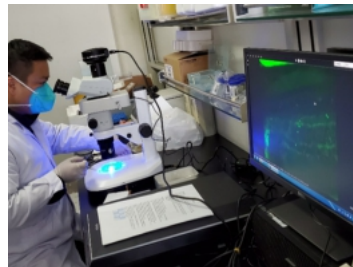
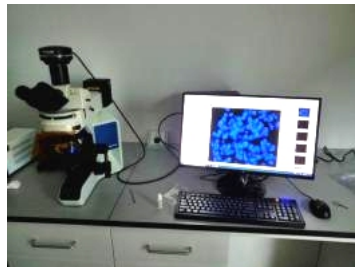
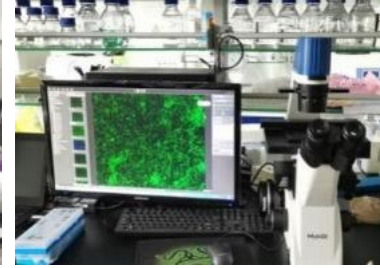
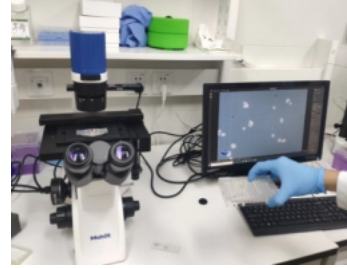
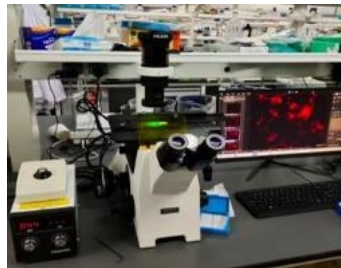
For upright microscope

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Sucessful projects samples

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Why we are good supplier

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# Culture & Target

Mshot 明美

MSHOT Culture

Creative Honesty Cooperated

MSHOT Target

To be leader of chinese microscope brand

# Product quality

Mshot 明美



Quality first !

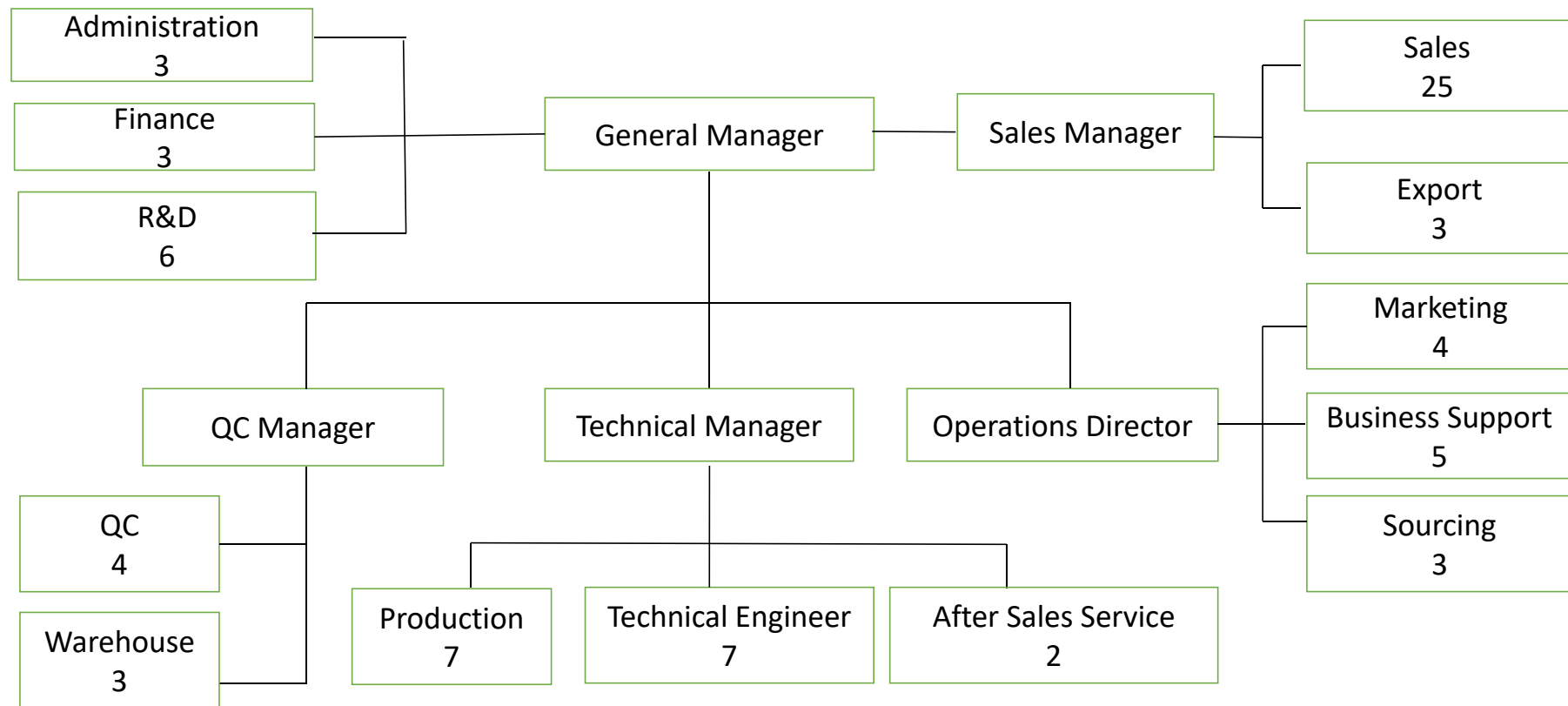
# Professional Team

80 people

All are university or college graduated

2 Doctor, 5 Master

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# Keep investment and development

MshOt 明美



2021 Planning to expand factory area, employees get to 80 staff

2020 Developed Technical Center

2019 Expand production line and warehouse 3 times bigger, 600m<sup>2</sup>

2017 Buy and move to new office and warehouse, employees get to 50 staff



# Production system

MshOt 明美

## MshOt 明美 质量体系一检验标准

产品检验		金相显微镜产品检验标准	
适用范围	本标准适用于本公司生产的金相显微镜。	编制	王明辉
审核	王明辉	批准	王明辉
1. 产品检验			
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1.1.100 产品检验			

显微镜产品检验标准

广州市明美光电技术有限公司



ISO system

ERP progress



# Medical instrument authorization

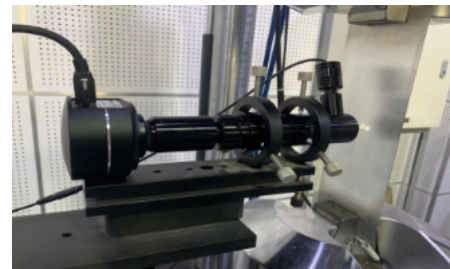
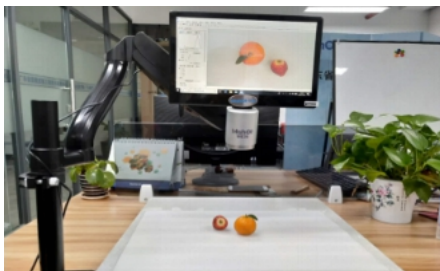


Chinese Medical Instrument Manufacture Certificate

# R&D and customize ability

Mechanical design, machine vision, medical instrument, optical design, software

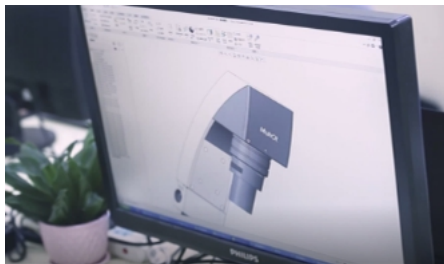
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Fluorescent mirror slider at the factory.  
If required, the optional CKX-MJ mirror for U-excitation can be mounted in the open position or by removing the B- or G-excitation mirror. (Work to be done by the dealer)

Fluorescent mirror specifications

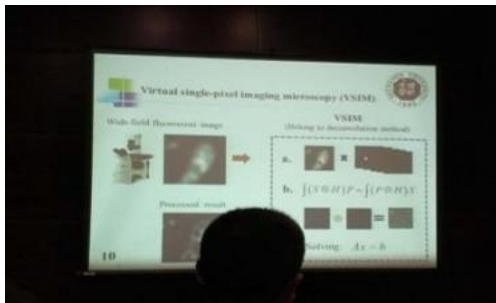
Excitation	Fluorescent Mirror	Dichroic Mirror	Excitation Filter	Barrier Filter	Applications
B	—	DM500	BP460-490C	BA520 F	<ul style="list-style-type: none"> <li>• FITC: Fluorescent antibody method</li> <li>• Acidine orange: DNA, RNA</li> <li>• Auramine: Tubercle bacillus</li> <li>• EGFP: 96GT, RSGFP</li> </ul>
G	—	DM570	BP480-550C	BA590	<ul style="list-style-type: none"> <li>• Rhodamine, TRITC: Fluorescent antibody method</li> <li>• Propidium iodide: DNA</li> <li>• RFP</li> </ul>
U	CKX-MJ	DM400	BP330-365	BA420	<ul style="list-style-type: none"> <li>• Auto-fluorescence observation</li> <li>• DAPI: DNA</li> <li>• Hoechst 33258, 33342: Chromosome</li> </ul>



# Staff training

Train every two weeks

Mshot 明美



# Product quality inspection process

Mshot 明美



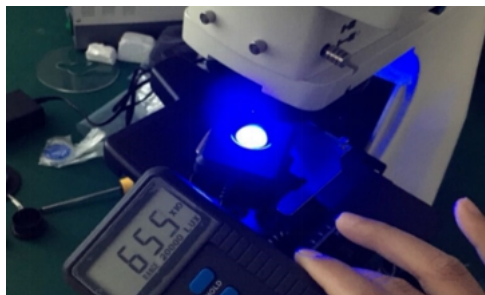
Burn-in test



Package shock checking



Production lable



Illumination intensity



Performance checking

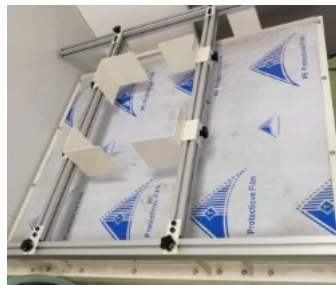


Defective products

# Product quality inspection instruments



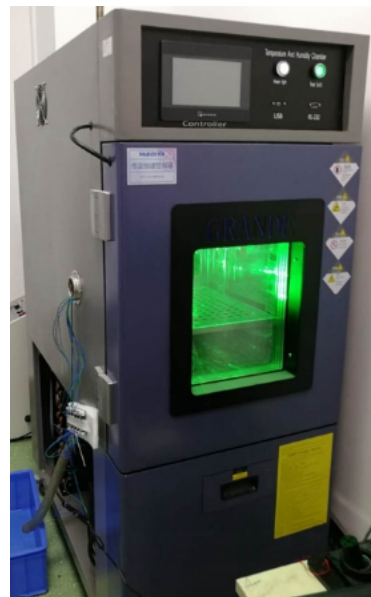
Vacuum drying oven



Vibration tester



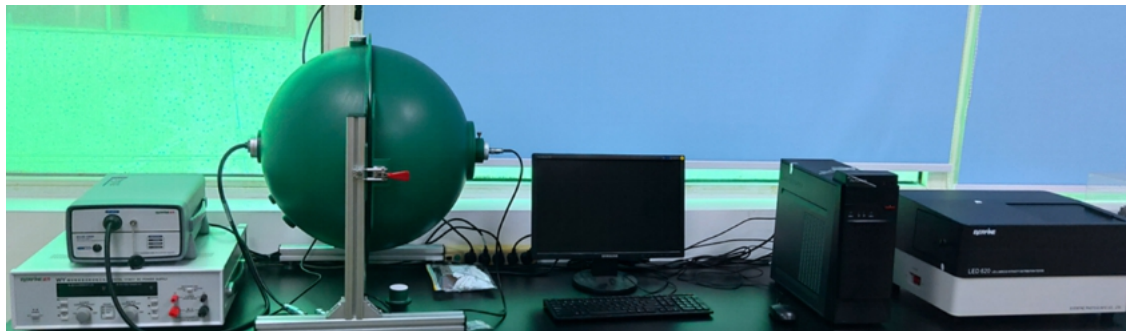
Constant current source



Constant temperature and humidity box



# Material quality inspection instrument



Integrating sphere

Increase incoming material inspection and quality control, all lamp beads, lens incoming basically maintain full inspection, screening out qualified product batches.

# Package

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Light-proof inner



Elegant box



Polypropylene protect



Explosion proof



Alluminum suitcase



Carboard carton

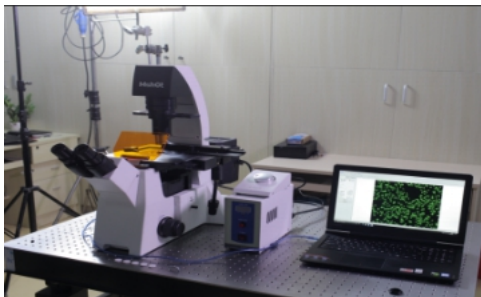


100

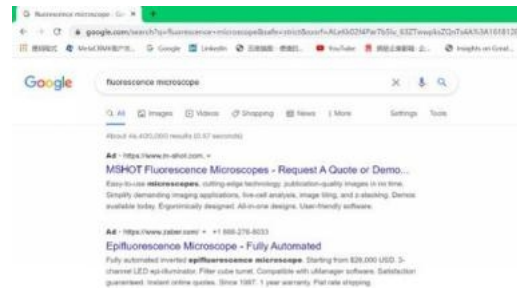
**Mshot 明美**



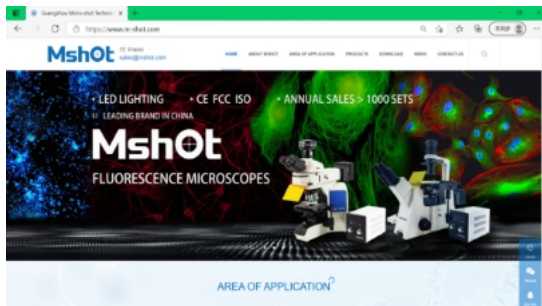
# English Catalogue



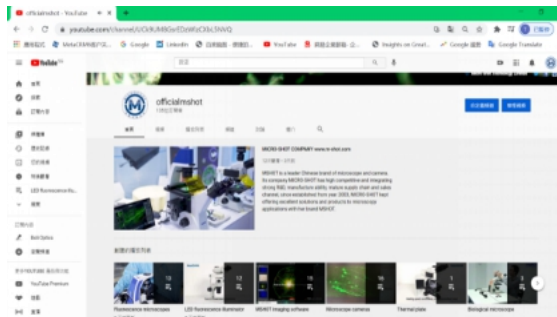
## Product capture



# Google Advertising



## English website



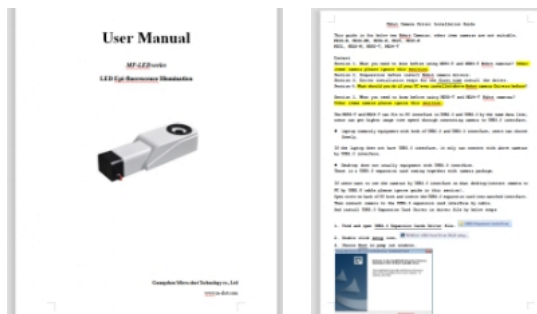
## Youtube



## Exhibition

# Sales support

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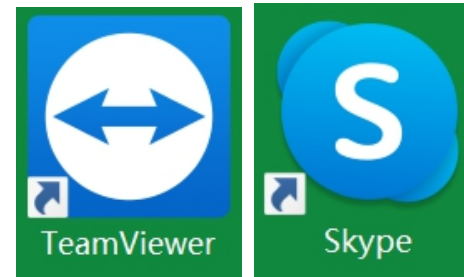
English User manual



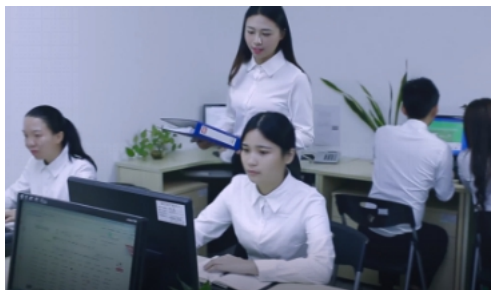
How to operate  
polarizing  
microscope  
MP41 with ca...

MF31-LED epi  
fluorescence  
microscope  
with MS60 sC...

Videos



Online support



Customer service



Technician support



At site service

# THANKS!

— Guangzhou Micro-shot Technology Co., Ltd —

[www.m-shot.com](http://www.m-shot.com)

[sales@mshot.com](mailto:sales@mshot.com)

