



GUANGDONG JINUOSH TECHNOLOGY CO., LTD

MU SERIES

MEASURING MICROSCOPES

MAKE MORE ACCURATE

METROLOGY SOLUTIONS
FOR ALL MANUFACTURINGS

High Precision | Smart Software | R&D Team



ABOUT JINUOSH

CUSTOMER FIRST QUALITY CONTROL TEAM WORK

Guangdong Jinuosh Technology Co., Ltd. is a hightech enterprise egaged in the research and development,production and sales of optical microscope, precision measuring instruments experimental equipment and various optica components and components, with a technical teamand management team specializing in the development of advanced products and proces research.

Always follow: "customer first, quality first perfect" quality policy, wholeheartedly for domesti and foreign customers to provide beautiful shape,excellent performance, reasonable price,user satisfaction's testing equipment products, the products are mainly exported,our company has won the trust and praise of many customers by providing allround assistance, high quality and sincere service. The company has gradually established the leading position in the testing instrument industry in China.In the domestic and international markets to establish a good brand, with its strong strength and good reputation in the industry, to become the world's top brands of excellent partners.

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MU SERIES

MEASURING MICROSCOPES

Features

- Coarse/Fine Focus Knob.
- Trinocular Optical Head.
- Granitebase and pillar, good stability.
- Precise, Simpler, more efficient operation
- Illumination intensity can be adjusted for most convenient and suitable illumination.

METROLOGY SOLUTIONS FOR ALL MANUFACTURINGS



L-type



T-type

Measuring stroke(mm)

Model	Stage	Stroke	Resoluton
MU400	6×4	150×100	0.001μm
MU800	8×6	200×150	0.001μm
MU1200	12×8	300×200	0.001μm
MU1212	12×12	300×300	0.001μm
MU1600	16×12	400×300	0.001μm

*z-axis motorised optional

PRODUCT INTRODUCTION

Modular design, build your own system

Tilting trinocular eyepiece tube

The LV-TT2 tilting trinocular eyepiece tube with built-in reticle offers comfort to all users, regardless of their viewing positions. The optica path changeover of 100:0/20:80 allows simultaneous use of a monitor.



Positive Trinocular Optical Head



Inverted Trinocular Optical Head

Model	Stage
Positive image	6×4
Inverted image	8×6

Illuminator

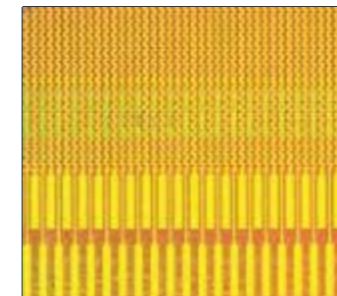
The illuminator projects light onto the sample according to the selected observation method. Software to accompany the coded illuminator is used to read out the position of the beamsplitter assembly and automatically recognise the observation method.



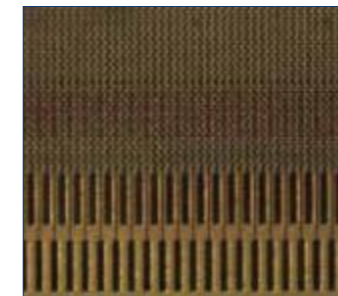
Illuminator

Model	
1	Epi Universal Illuminator
2	FA Assisted Focus with Reflector Illuminator
3	Bright Field Reflector Illuminator
4	Light and dark field Illuminator

The MU series measuring microscopes are available with different types of illuminator components to meet the various measurement needs of the user. These accessories can be adapted to measuring objectives or using a converter 's metallurgical objectives and enable brightfield, darkfield, FA-assisted focusing, polarized and differential interferometric observation measurements on these bases.



Bright Field



Dark Field



FA

Prism Modules

It is not only able to observe colourless and transparent objects, but also the image presents a relief-like three-dimensional sense, and has some advantages that cannot be achieved by phase contrast microscopy, and the observation effect is more realistic.

Model	
1	DIC Interference Prism
2	Polarizer Assembly



Prism Modules



DIC

Objective

The Plan FLUOR EPI-BD flat-field semi-apochromatic POL objective ensures the shape The correction of aberrations also limits image distortion to a minimum. So in Normans In the basis differential interferometric contrast observation method, this series of objective lens is the best choice.



Parfocal Distance	Magnification	Objective			Eyepiece(WF 10/25)		
		N.A.	Effective working distance (w.d)	Resolution(R)	Total Magnification	Object Field of View	Depth of Focus(±Δ)
45mm	5X	0.15	20mm	2.2μm	50 X	Φ5mm	38.3μm
	10X	0.30	11mm	1.1μm	100 X	Φ2.5mm	7.8μm
	20X	0.45	3mm	0.75μm	200 X	Φ1.25mm	3.5μm
	50X	0.80	1mm	0.42μm	500 X	Φ0.5mm	0.8μm
	100X	0.90	1mm	0.37μm	1000 X	Φ0.25mm	0.6μm

Plan FLUOR EPI flat field semi-apochromatic objective color elimination is complete, in the package These include the bright field (dark view) observation method, the Normansky differential interference contrast observation method and the Jan Easy polarized light observation method has perfect effect. All 50x and higher multiples in this series The objective lenses have a working distance of 1mm to ensure safe proximity to the specimen.



Parfocal Distance	Magnification	Objective			Eyepiece(WF 10/25)		
		N.A.	Effective working distance (w.d)	Resolution(R)	Total Magnification	Object Field of View	Depth of Focus(±Δ)
60mm	5X	0.15	11.5mm	2.1μm	50 X	Φ5mm	38.3μm
	10X	0.30	6.5mm	0.9μm	100 X	Φ2.5mm	7.8μm
	20X	0.40	10.5mm	0.69μm	200 X	Φ1.25mm	3.5μm
	50X	0.80	2mm	0.34μm	500 X	Φ0.5mm	0.8μm
	100X	0.80	2mm	0.34μm	1000 X	Φ0.25mm	0.6μm

Plan FLUOR EPISL long working distance flat field semi-apochromatic objective process The long distance makes it easy to change the sample without touching the coarse adjustment knob.



Parfocal Distance	Magnification	Objective			Eyepiece(WF 10/25)		
		N.A.	Effective working distance (w.d)	Resolution(R)	Total Magnification	Object Field of View	Depth of Focus(±Δ)
90mm	2X	0.055	34.6mm	5μm	20 X	Φ12.5mm	91μm
	5X	0.14	45mm	2μm	50 X	Φ5mm	14μm
	10X	0.28	34mm	1μm	100 X	Φ2.5mm	3.5μm
	20X	0.29	30.8mm	1μm	200 X	Φ1.25mm	3.5μm
	50X	0.42	20.5mm	0.7μm	500 X	Φ0.50mm	1.6μm
	100X	0.55	12.5mm	0.5μm	1000 X	Φ0.25mm	0.9μm



Nosewheel

*Optional Electric

Rotary Stage

Enables the observer to easily implement the sample Parallel calibration.



Type 3



Type 4



Type 5

Model	Specifications	
Type 3	6×4	8×6
Type 4	12×8	
Type 5	12×12	16×12

Camera

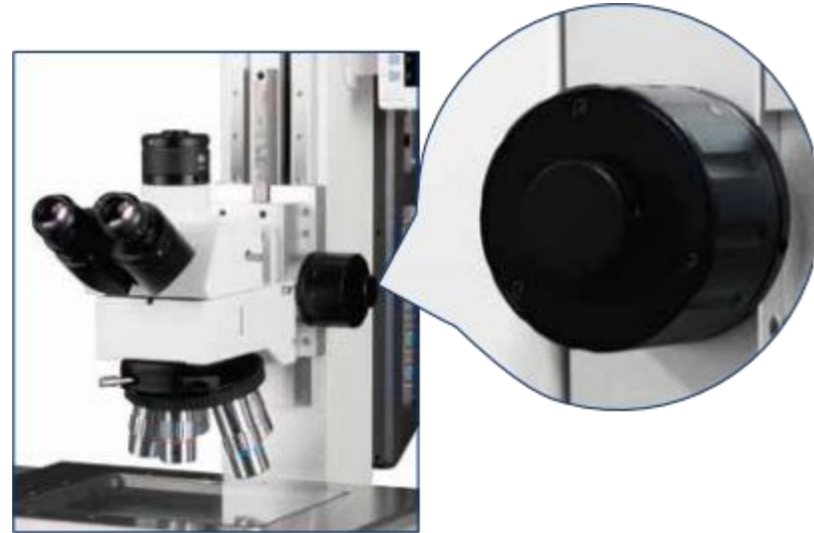
High definition digital color image system compatible with C-mount. Anyone can easily capture and use a microscope Save high quality images. Automatic edge detection with sub-pixel processing enables rapid measurement of different sample types Users provide a variety of advanced measurement and processing capabilities, including 2D data processing for each image measurement as well as data storage.



Specifications	
1	1.3MP
2	2.0MP

Coarse trimmer quick conversion device

Both sides are equipped with coaxial coarse/fine-tuning hand wheel to achieve the fastest focusing speed. The instrument has a built-in high-precision grating ruler for accurate 3-axis measurement. FA auxiliary focusing can also be selected to ensure the accuracy of Z-axis focusing, and minimize the measurement error caused by different focal depth of the objective lens. (Automatic function can be added to all X.Y.Z)



Counters

The display unit can be mounted on either side of the main body. Counters can be connected with data processors and digital printers via the RS-232C port.



3-axis counter



2-axis counter

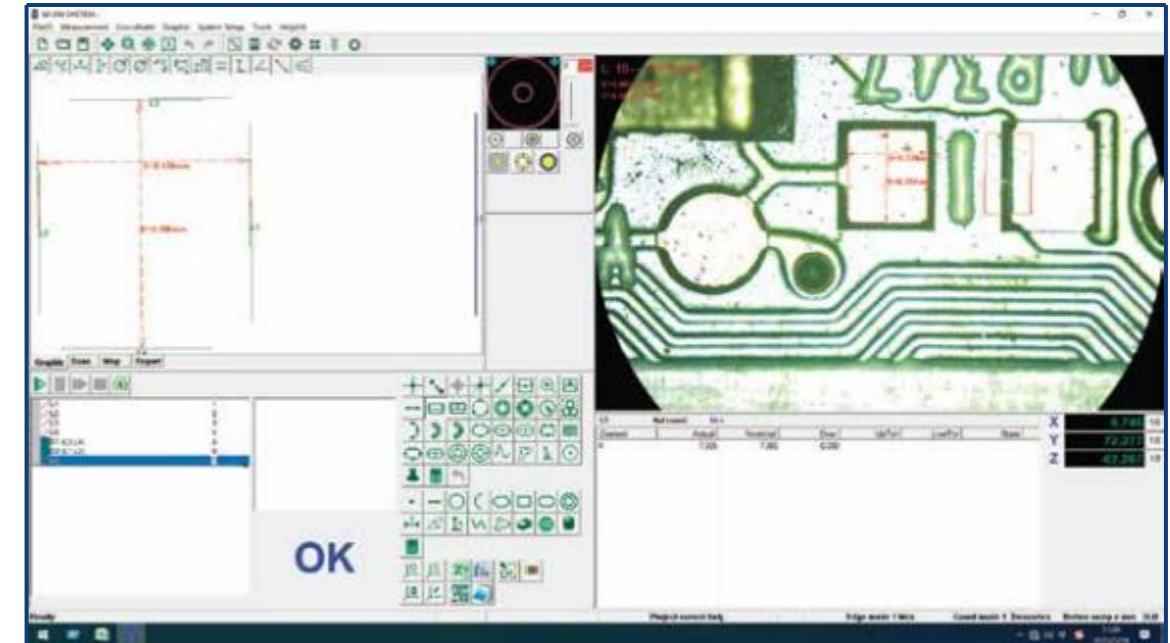
Counter Remote Switch

Enables remote control of the counter's RESET and SEND.



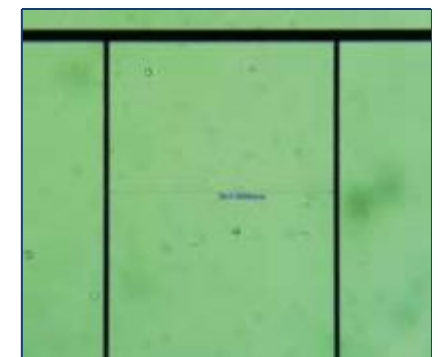
Software

More Accurate, Faster, and Simpler Measurement of Objects with Complex Shapes. Excellent for precise measurements of angles, lengths, diameters, and any distances on the specimen.



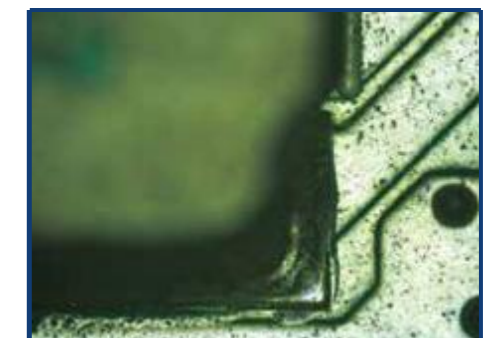
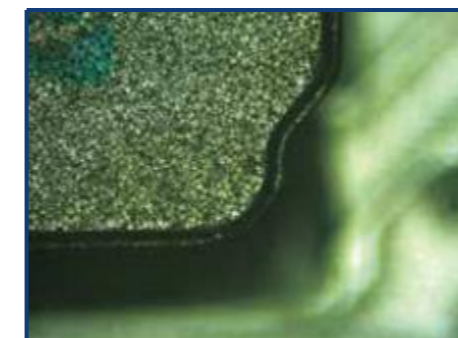
High Measurement Accuracy

Maximum error of measuring standard glass ruler $\leq 0.003\text{mm}$.



Focus Navigation System

Achieve Faster, Simpler, More Accurate Height Measurement.



SPECIFICATIONS

*(L= is the measured length in mm)

Model	MU400	MU800	MU1200	MU1212	MU1600
X/Y Stroke(mm)	100×100	200×150	300×200	300×300	400×300
Z Stroke(mm)	200				
X/YAxis Scales	Box glass grating ruler resolution 0.5 μm				
Illumination unit	White LED transmission spotlight light source				
X/Y-Axis Guide Rail	V-Guide				
Z-Axis Guide Rail	linear guide rail				
X/Y-Axis Transmission	Adjustable nut+precision screw				
Z-Axis Transmission	Coarse/Fine Gear Focus Module				
X/Y Axis Measurement Accuracy	$2.5\mu\text{m}+L/150$				
Z-Axis Measurement Accuracy	$2.0\mu\text{m}+L/150$				
Flatness of machine	$\leq 10\mu\text{m}$				
Calibration Scale	Jinuosh				
Glass Loading	20KG				

Application

