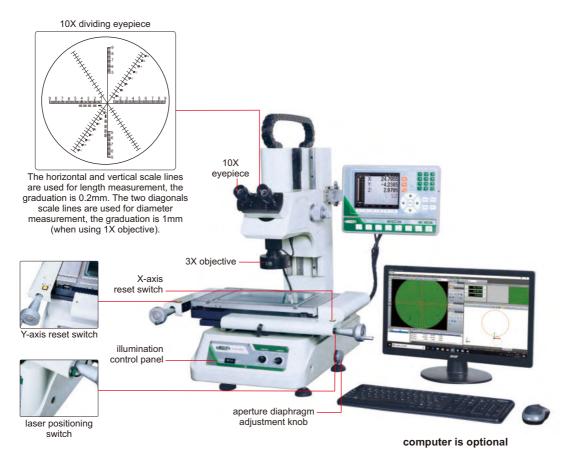
### **TOOLMAKER MICROSCOPES**

*AINSIZE* 







ISD-VMM215

#### SPECIFICATION

<b>O</b> a da	binocular	ISD-VMM205	ISD-VMM215	ISD-VMM225	ISD-VMM235		
Code	monocular	ISD-VMM205D	ISD-VMM215D	ISD-VMM225D	ISD-VMM235D		
X/Y axis travel		150×100mm	200×100mm	250×150mm	300×200mm		
Z axis travel		150mm	150mm	200mm	200mm		
Metal stage size		354×228mm	404×228mm	450×280mm	500×330mm		
Glass sta	ige size	210×160mm	260×160mm	306×196mm	350×250mm		
Resolutio	on of X/Y/Z axis	0.5µm		· ·			
Accuracy of X/Y axis		≤(3.5+L/100)µm (L is th	≤(3.5+L/100)µm (L is the measuring length in mm)				
Repeatability 2µm							
Camera	amera 1/3" color CCD, 0.3M pixel						
Optical magnification 30X (with 3X objective)							
Image ma	nage magnification 114X (on 19" monitor)						
Illumination surface and contour with adjustable LED							
Max. weight of workpiece		25kg	25kg				
Power supply		100V~240V, 50/60Hz	100V~240V, 50/60Hz				
Operating	Operating system Windows 7/8/10						
Drive met	thod	manual					
Dimensio	on (L×W×H)	540×667×850mm	540×667×850mm	800×675×920mm	800×675×920mm		
Weight		100kg	110kg	135kg	140kg		

#### Continued from previous page

#### DATA PROCESSING UNIT

Output	R\$232
	Simple measuring tools
	X Measure coordinate of points
	← Measure lines
	Measure center coordinate, radius of circle with three points
	Measure distances betwen two objects
Function	Measure angles
	Set origin of coordinate
	Skew and calibrate the workpiece
	$\mathbb{E}_{\mathbb{E}_{q-q^2}}^{\mathbb{E}_{q-q^2}}$ Measure rectangle (including length, width, perimeter and center coordinate)
	談 Measure thread (including thread diameter, screw pitch, screw angle)
	A Measure slot (including center coordinate, length, width)

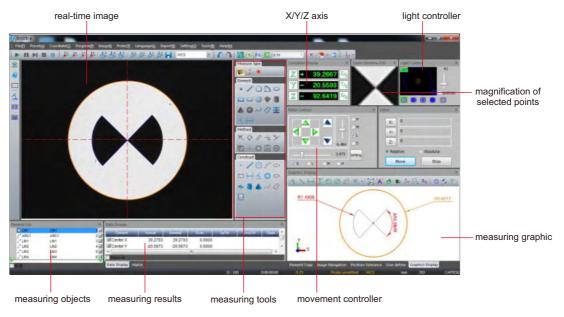
#### STANDARD DELIVERY

Main unit	1 pc
Video card with dongle	1 pc
Software disc	1 pc
Calibration glass chart	1 pc
Demo sample	1 pc
Foot switch	1 pc
3X objective	1 pc

## OPTIONAL ACCESSORY 1X objective ISD-VMM-LENS1X 5X objective ISD-VMM-LENS5X 10X objective ISD-VMM-LENS10X Code: ISD-VMM205A (binocular) ISD-VMM215A (binocular) ISD-VMM225A (binocular) ISD-VMM235A (binocular) iSD-VMM235A (binocular) ISD-VMM235A (binocular) iSD-VMM205DA (monocular) ISD-VMM215DA (monocular) ISD-VMM225DA (monocular) ISD-VMM235DA (monocular)

#### SOFTWARE (INCLUDED)

Refer to page 399~400 for details



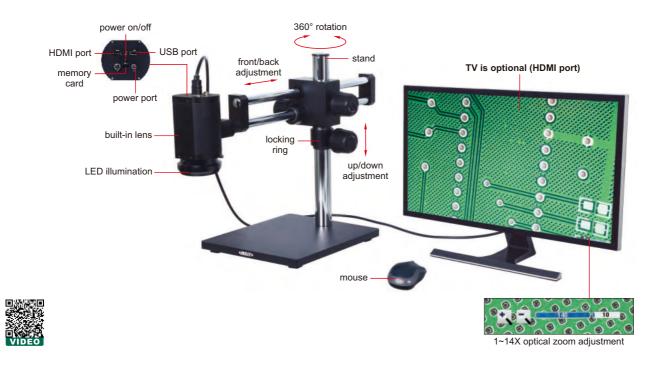
-INSIZE-)



### AUTO FOCUS DIGITAL MICROSCOPE CODE 5302-AF105

AUTO FOCUS

TAKE PICTURES AND VIDEOS



- 1080P high-definition image
- Auto focus camera

SPECIFICATION

Magnification

Sensor Pixel

Resolution

Frame rate

**Power supply** 

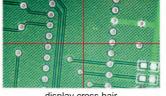
Output

Weight

Auto focus distance

Dimension (L×W×H)

- Take pictures and videos, saved to memory card
- Connected to TV by HDMI port
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display cross hair (blue/green/red/yellow/black/brown colors)



display cross hair (blue/green/red/yellow/black/brown colors)



8G memory card and holder (included)

#### STANDARD DELIVERY

Main unit (with stand)	1 pc
LED illumination	1 pc
8G memory card and holder	1 pc
Mouse	1 pc
HDMI cable (for TV)	1 pc
Power adapter	2 pcs

#### FOCUS DISTANCE, MAGNIFICATION AND VIEW FIELD (MANUAL FOCUS MODE)

1.8X~27.5X (on 28" TV)

1/2.8" CMOS

1920×1080

100mm~∞

power adapter

500×280×410mm

2M

60fps

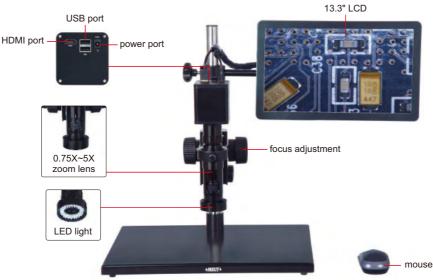
HDMI

17kg

Focus distance	Adjustable magnification (on 28" TV)	View field
100mm	4.5~27.5X	24×14~161×90mm
150mm	3~21X	30×17~240×128mm
200mm	2.3~17.5X	38×20~305×176mm
250mm	2~15X	42×24~320×210mm
270mm	1.8~14.4X	43×25~378×240mm

### AUTO FOCUS DIGITAL MICROSCOPE (WITH DISPLAY) CODE 5303-AF103





- 1080P high-definition image
- Auto focus camera
- Take pictures and videos, saved to USB flash disk
- Picture review, picture compare
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display cross hair (blue/green/red/yellow/black/ brown colors)

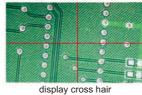


#### SPECIFICATION

Magnification	20X~123X
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg

#### STANDARD DELIVERY

Main unit	1 рс
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adpter	2 pcs



(blue/green/red/yellow/ black/brown colors)



1X camera adapter (**optional**)

#### MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary	Specification	Camera adapter		
objective	Specification	0.5X (included)	1X (optional)	
	Magnification	20~123X	40~246X	
1X (included)	Focus distance	48~84mm	48~84mm	
	View field	13×7~2.2×1mm	6.3×3.5~1.1×0.5mm	
	Magnification	40~246X	80~492X	
2X (optional)	Focus distance	24~42mm	24~42mm	
	View field	6.5×3.5~1.1×0.5mm	3.3×1.8~0.6×0.3mm	

#### AUTO FOCUS DISTANCE

Zoom objective scale	0.75X	1X	1.5X	2X	2.5X
Auto focus distance	48~84mm	50~78mm	55~73mm	62~71mm	65~70mm
Zoom objective scale	3X	3.5X	4X	4.5X	5X
Auto focus distance	66~70mm	67~70mm	68~70mm	68~70mm	68~70mm

#### **OPTIONAL ACCESSORY**

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE
X-Y metal stage	ISM-DL-STAGE1
LED light	page 417~418
Auxiliary objective	page 419



-INSIZE-)

16G USB flash disk (included)



0.5X camera adapter (included)

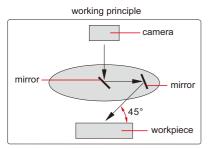


1X auxiliary objective (included)



2X auxiliary objective (**optiona**l)

### 3D MOTORIZED ROTATION MICROSCOPE (WITH DISPLAY) SUITABLE TO CHECK CONVEX OBJECTS AND WALL OF HOLE CODE 5301-D400 TAKE PICTURES AND VIDEOS 13.3" LCD USB port HDMI port power illumination on/off illumination focus adjustment adjustment 360° rotation lens with LED zoom 18X~120X zoom rotarv switch rotation speed adjustment rotation direction switch rotation controller X-Y metal stage mouse



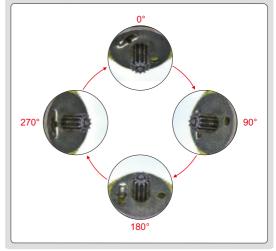
*<i>AINSIZE* 

18

- 1080P high-definition 3D image
  Take pictures and videos, save to USB flash disk
- Automatic white balance and exposure
- Brightness, contrast ratio and gain are adjustable

#### SPECIFICATION

Magnification	18X~120X
View field	2.4×1.5mm~16×9mm
Focus distance	20mm
View angle	45°
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Rotation speed	2~5RPM
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	570×300×430mm
Weight	10kg



360° rotation observation

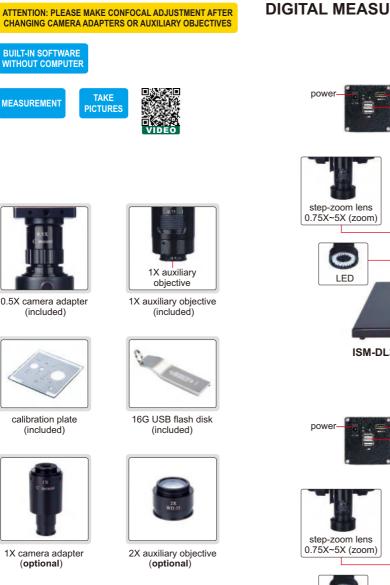
#### STANDARD DELIVERY

Main unit	1 pc
Rotation controller	1 pc
X-Y metal stage	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
Power adapter	2 pcs

### DIGITAL MEASURING MICROSCOPES (WITH DISPLAY)

+INSIZE+

13.3" LCD





BUILT-IN SOFTWARE WITHOUT COMPUTER

MEASUREMENT

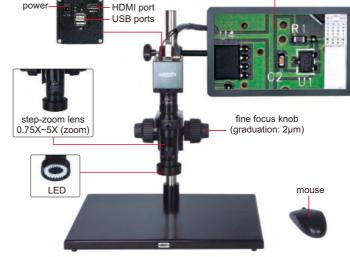
0.5X camera adapter (included)

calibration plate (included)

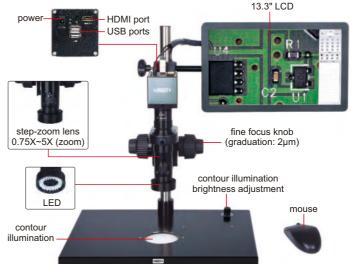


1X camera adapter (optional)

- 1080P high-definition image Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measurement results can be sent to Excel
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable



ISM-DL300 (without contour illumination)



ISM-DL301 (with contour illumination)

SPECIFICATION

SPECIFICATION			
Code	ISM-DL300 (without contour illumination)	ISM-DL301 (with contour illumination)	
Magnification	15X~100X		
Sensor	1/2" CMOS		
Pixel	2M		
Resolution	1920×1080		
Frame rate	60fps		
Output	HDMI		
Power supply	power adapter		
Dimension (L×W×H)	570×300×430mm		
Weight	6.5kg		

To be continued

Continued from previous page

*<i>AINSIZE* 

#### STANDARD DELIVERY

Code	ISM-DL300	ISM-DL301
Main unit	1 pc	1 pc
0.5X camera adapter	1 pc	1 pc
1X auxiliary objective	1 pc	1 pc
Calibration plate	1 pc	1 pc
16G USB flash disk	1 pc	1 pc
White/black plate	1 pc	1 pc
Mouse	1 pc	1 pc
HDMI cable	1 pc	1 pc
Power adapter	2 pcs	3 pcs

#### OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X	
2X auxiliary objective	ISM-DL-OB2X	
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE	
X-Y metal stage	ISM-DL-STAGE1	
LED light	page 417~418	
Auxiliary objective	page 419	

#### MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	Image magnification	Measuring accuracy *
0.75X	15X	±8µm
1X	20X	±7µm
1.5X	30X	±6µm
2X	40X	±6µm
2.5X	50X	±6µm
3X	60X	±5µm
3.5X	70X	±5µm
4X	80X	±4µm
4.5X	90X	±4µm
5X	100X	±4µm

 $\boldsymbol{*}$  When measuring the contour of workpieces, please use ISM-DL301 to ensure accuracy.

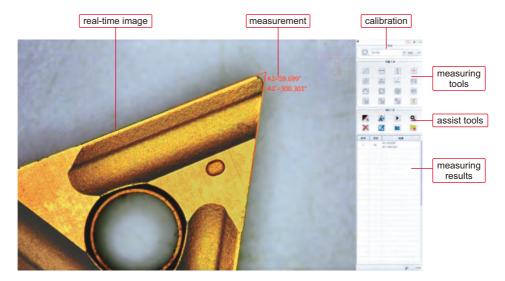
#### MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

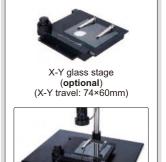
Auxiliary objective Sp	Specification	Camera adapter	
	opecification	0.5X (included)	1X (optional)
	Magnification	15~100X	30~200X
	Focus distance	70±2mm	70±2mm
	View filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
	Magnification	30~200X	60~400X
2X (optional)	Focus distance	29±2mm	29±2mm
	View filed	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm

# 18

#### SOFTWARE (INCLUDED)

Refer to page 414 for details

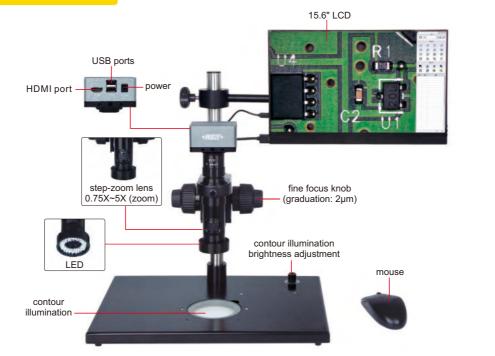




### 4K DIGITAL MEASURING MICROSCOPE (WITH DISPLAY) CODE 5310-DL401



ATTENTION: PLEASE MAKE CONFOCAL ADJUSTMENT AFTER CHANGING CAMERA ADAPTERS OR AUXILIARY OBJECTIVES





4K high-definition image

SPECIFICATION

Magnification Sensor

Pixel

Resolution

Frame rate

**Power supply** 

Dimension (L×W×H)

Output

Weight

Take pictures, save to USB flash disk Measurement results can be sent to Excel Automatic white balance and exposure Brightness, contrast ratio, gain are adjustable

Built-in software without computer, operated by mouse

17.6X~120X

1/2.3" CMOS

3840×2160

power adapter

570×300×430mm

4K:30fps, 1080P:60fps

8M

HDMI

6.5kg





calibration plate (included)



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16G USB flash disk (included)



0.5X camera adapter (included)



1X camera adapter (optional)



18

1X auxiliary objective (included)



2X auxiliary objective (optional)

To be continued









Continued from previous page

#### MAGNIFICATION, VIEW FIELD AND MEASURING ACCURACY

Objective magnification	Image magnification	View field	Measuring accuracy
0.75X	17.6X	19.5×11.5mm	±5µm
1X	23.7X	14.0×8.0mm	±5µm
1.5X	36.6X	9.0×5.0mm	±5µm
2X	49X	7.0×4.0mm	±5µm
2.5X	62X	5.5×3.0mm	±4µm
3X	73X	4.5×2.5mm	±4µm
3.5X	85X	4.0×2.2mm	±4µm
4X	97X	3.5×2.0mm	±3µm
4.5X	109X	3.0×1.8mm	±3µm
5X	120X	2.7×1.5mm	±3µm

#### STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	3 pcs

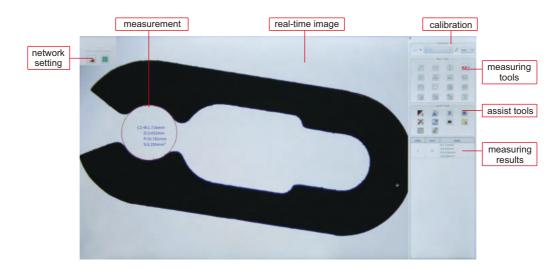
#### **OPTIONAL ACCESSORY**

1X camera adapter	ISM-DL-CA1X	
2X auxiliary objective	ISM-DL-OB2X	
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE	
X-Y metal stage (travel: 100×86mm)	ISM-DL-STAGE1	
LED light	page 417~418	
Auxiliary objective	page 419	

### 18

#### SOFTWARE (INCLUDED)

Refer to page 414 for details



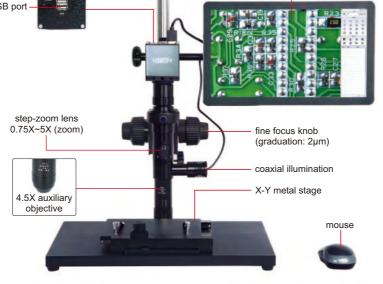




calibration plate (included)



16G USB flash disk (included)





INSIZE

0.5X camera adapter (included)



1X camera adapter (optional)

- 1080P high-definition image
   Maximum 1000X optical magnification (using camera adapter 1X, optional)
- Built-in software without computer, operated by mouse
- Solid base and column to avoid lens shaking during focusing
- Software is included, refer to page 414 for details

#### SPECIFICATION

Magnification	78X~504X	
Sensor	1/2" CMOS	
Pixel	2M	
Resolution	1920×1080	
Frame rate	60fps	
Output	HDMI	
Power supply	power adapter	
Dimension(L×W×H)	570×300×430mm	
Weight	15kg	

#### SATNDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
4.5X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
HDMI cable	1 pc
X-Y metal stage	1 pc

#### **OPTIONAL ACCESSORY**

1X camera adapter	ISM-DL-CA1X	
LED light	page 417~418	

#### MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	Image magnification	Measuring accuracy
0.75X	78X	±5µm
1X	102X	±4µm
1.5X	153X	±4µm
2X	204X	±4µm
2.5X	255X	±4µm
3X	305X	±4µm
3.5X	356X	±4µm
4X	408X	±4µm
4.5X	458X	±4µm
5X	504X	±4µm

#### MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Camera adapter	0.5X (included)	1X (optional)	
Magnification	78~504X	156~1008X	
Focus distance	14±2mm	14±2mm	
View field	2.8×1.7~0.5×0.3mm	1.4×0.9~0.3×0.2mm	

### FOCUS STACKING MEASURING MICROSCOPE (WITH DISPLAY) CODE ISM-DL510



ATTENTION: PLEASE MAKE CONFOCAL ADJUSTMENT AFTER CHANGING CAMERA ADAPTERS OR AUXILIARY OBJECTIVES



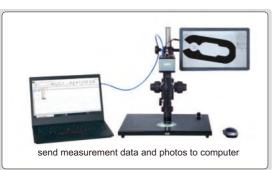


1080P high-definition image

+INSIZE-

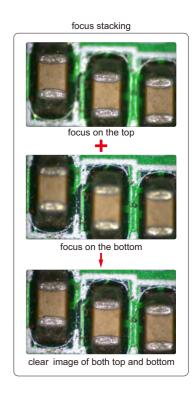
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measurement results can be sent to Excel
- Automatic white balance and exposure
- Focus stacking
- Send photos and measurement data via ethernet (TCP/IP) Name photos and measurement data files with serial number of workpieces read by scanner

18



#### SPECIFICATION

Magnification	15X~100X
Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm





1X auxiliary objective (included)



2X auxiliary objective (optional)



0.5X camera adapter (included)



1X camera adapter (optional)

To be continued



Continued from previous page

#### STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
Power adapter	3 pcs

#### OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE
Scanner and hub	7328-SCAN
LED light	page 417~418
Auxiliary objective	page 419

#### MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	Image magnification	Measuring accuracy
0.75X	15X	±8µm
1X	20X	±7µm
1.5X	30X	±6µm
2X	40X	±6µm
2.5X	50X	±6µm
3X	60X	±5µm
3.5X	70X	±5µm
4X	80X	±4µm
4.5X	90X	±4µm
5X	100X	±4µm

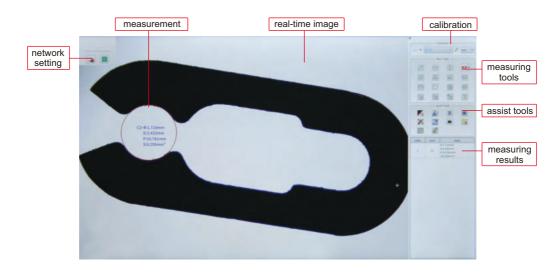


#### MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary objective	Specification	Camera adapter		
	opeemeation	0.5X (included)	1X (optional)	
	Magnification	15~100X	30~200X	
1X (included)	Focus distance	70±2mm	70±2mm	
	View filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm	
	Magnification	30~200X	60~400X	
2X (optional)	Focus distance	29±2mm	29±2mm	
	View filed	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm	

#### SOFTWARE (INCLUDED)

Refer to page 414 for details



### DIGITAL MEASURING MICROSCOPE CODE 5307-ID100A

ELECTRONIC MAGNIFICATION FEEDBACK LENS

adjustable display angle

LED ring light

1X auxiliarv

objective

11.6" LCD

USB ports

adjustment power on/off

objective magnification

adjustment (0.7X~4.5X)

illumination brightness

mouse

focus adjustment



*<i>AINSIZE* 

- Electronic magnification feedback lens: when the objective lens magnification is changed manually, the software automatically selects the corresponding pre-calibration data and calibration is not needed
- Two methods of LED brightness adjustment, knob adjustment and software adjustment
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measuring results can be sent to Excel



Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Magnification	12~77X
Focus distance	100mm
View field	2.7×1.9~17.5×11.9mm
Max workpiece height	60mm
Frame rate	60fps
Output	USB/HDMI
Power supply	power adapter
Dimension (L×W×H)	610×610×660mm
Weight	4.5kg

#### STANDARD DELIVERY

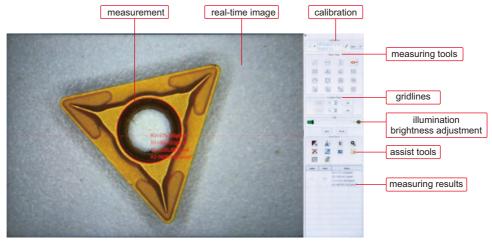
Main unit	1 pc
Calibration plate	1 pc
Power adapter	1 pc
Mouse	1 pc
16G USB flash disk	1 pc

#### MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	Magnification	Measuring accuracy
0.7X	12X	±9µm
1X	17X	±9µm
1.5X	26X	±8µm
2X	35X	±7µm
2.5X	43X	±7µm
3X	51X	±7µm
3.5X	60X	±6µm
4X	68X	±6µm
4.5X	77X	±5µm

#### SOFTWARE (INCLUDED)

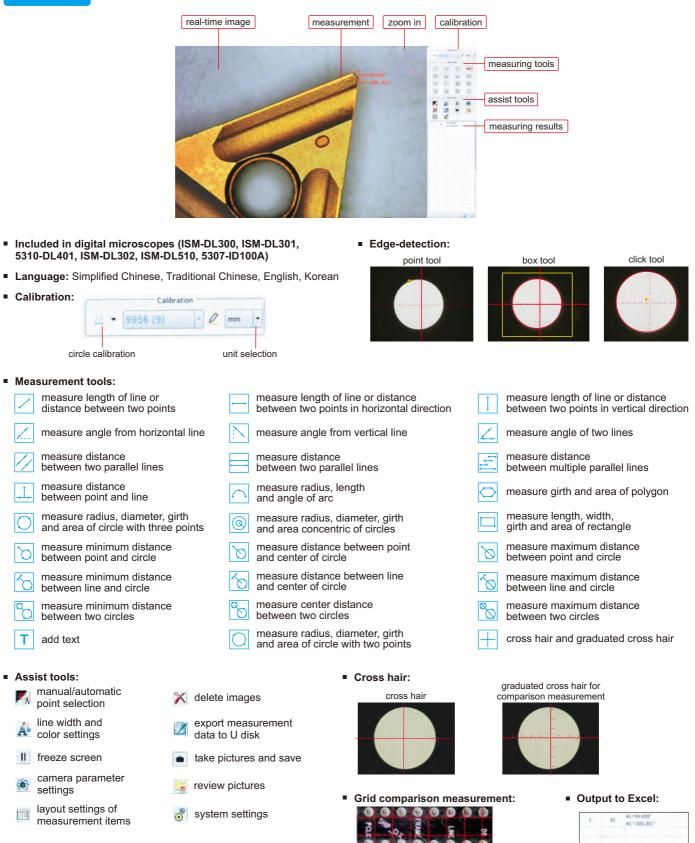
Refer to page 414 for details



#### SOFTWARE CAN BE CUSTOMIZED

### MEASURING SOFTWARE OF DIGITAL MICROSCOPES

INSIZ



#### Comparison:

set the standard workpiece as the background image, superimpose the measured workpieces on the image for quick comparison

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full-screen grid for comparison

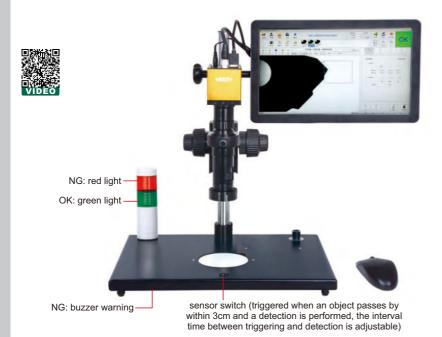
measurement, adjustable grid number



### SMART MICROSCOPE CODE ISM-DL400

#### AUTOMATICALLY LOCATE WORKPIECES REGARDLESS OF POSITION AND DIRECTION

#### BUILT-IN SOFTWARE WITHOUT COMPUTER



	camera function		
	surface defect detection	<ul> <li>character recognition</li> </ul>	
	<ul> <li>dimension measurement</li> </ul>	<ul> <li>color detection</li> </ul>	
	read barcode	read QR code	
	burr detection	<ul> <li>object counting</li> </ul>	
l	contour matching	thread measurment	

#### detect different workpieces at one time



- Automatically identify different workpieces
- Automatically locate workpieces regardless of position and direction
- Built-in software, PLC control input and output interface
- Including multiple detection tools
- Automatically calculate, store the test results and export to Excel



report showing the perform times of each tool, quantity of OK and NG, the report can be saved

STANDARD DELIVERY

0.5X camera adapter

1X auxiliary objective

Calibration plate

White/black plate

HDMI cable

Power adapter

16G USB flash disk

Main unit

Inspection data summary table					
1	1000 1 1000 1100				
	102 Cluster				
E	Intertion number	Bebertun form	detection rates	Number of space	Maxmum Lada
	700101_000641_001	33m	白色	0	0.0000mm
	700101_001101_001	11mi	88	0	0.0000mm
	700101_001202_001	33ms	DP:	0	8.0000mm
4					
£					
14					
22					

## report of each detection is automatically created and saved

### SPECIFICATION

Magnification	15X~100X
Resolution	1920×1080
Pixel	2M
Single pixel size	3.75×3.75µm
Frame rate	60fps
Sensor	1/2" CMOS
Chip structure	FPGA+ARM
Operating system	Linux 3.10
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg

#### MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary Specification		Camera adapter		
objective	opecification	0.5X (included)	1X (optional)	
1X	Magnification	15~100X	30~200X	
(included) View filed	70±2mm	70±2mm		
	View filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm	
2X	Magnification	30~200X	60~400X	
2X (optional)	Focus distance	29±2mm	29±2mm	
(optional)	View filed	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm	

### OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X	
2X auxiliary objective	ISM-DL-OB2X	
LED light	page 417~418	
Auxiliary objective	page 419	

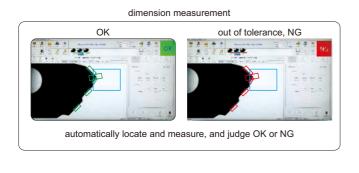
1 pc

3 pcs

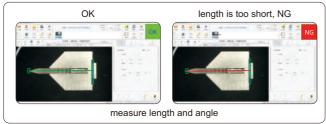
To be continued

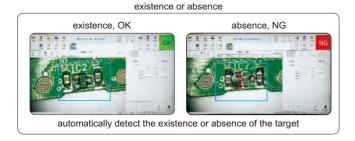
Continued from previous page

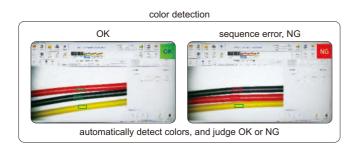
#### APPLICATION EXAMPLES:

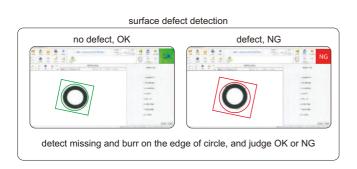


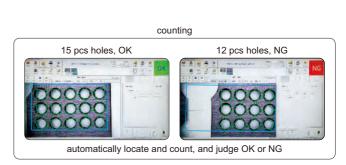
cutting tools measurement











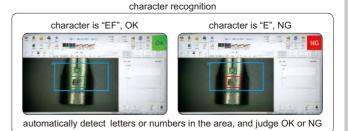
automatically measure major diameter, minor diameter, thread angle, pitch of thread, and judge OK or NG

thread measurement

OK

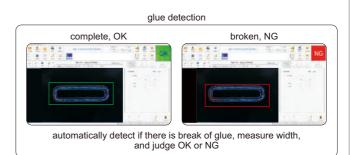
INSIZE

out of tolerance, NG



 center line aligned, OK
 center line misaligned, NG

 Image: Control of the second sec





### X-Y METAL STAGE CODE ISM-DL-STAGE1

Suitable for digital microscopes 5301-D400, 5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302

#### SPECIFICATION

X-Y travel range	100×86mm	
Dimension (L×W×H)	180×180×50mm	
Weight	2.3kg	



- Diffuser plate is included to reduce the reflective
- effect on workpieces
- Suitable for digital microscopes 5301-D400, 5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510

#### SPECIFICATION

Light color	white
Power supply	24V
Power	5.5W
Angle	45°
Outside/inside diameter	92/52mm

### LED SQUARE LIGHT CODE ISM-LED-100L4

- Diffuser plate is included to reduce the reflective effect on workpieces
- Angle and brightness can be adjusted independently
- Suitable for digital microscopes 5301-D400, 5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510

#### SPECIFICATION

18

Light color	white	
Power supply 24V		
Power 10.36W		
Angle	0~90°	
Dimension (L×W×H)	154×154×30mm	



- 256 (0-255) steps of brightness adjustment
- With power off memory function and short circuit protection function
- Suitable for ISM-LED-100L4, ISM-LED-9245R

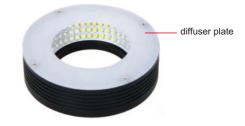
#### SPECIFICATION

Power supply	100~240V, 50/60HZ	
Output power (rated)	60W	
Output voltage (rated)	24V	
Dimension (L×W×H)	145×118×83mm	



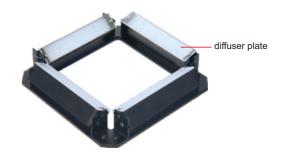


RED, GREEN, BLUE, INFRARED AND UV LIGHT CAN BE CUSTOMIZED ATTENSION: MUST BE USED WITH LIGHT BRACKET AND LIGHT CONTROLLER



RED, GREEN, BLUE, INFRARED AND UV LIGHT CAN BE CUSTOMIZED

ATTENSION: MUST BE USED WITH LIGHT BRACKET AND LIGHT CONTROLLER





### BRACKET FOR LIGHTS CODE ISM-LED-BRACKET

-INSIZE+





SPECIFICATION

Size (L×W×H)

Weight

- 4 pcs L-shape bars are included,
- multiple combinations can be realized
  Suitable for ISM-LED-100L4, ISM-LED-9245R

\_\_\_\_\_

0.7kg

260×300×20mm

DUAL HEAD LED LIGHT CODE ISM-ZS-LED



- Adjustable illumination
- For digital and stereo microscopes

#### SPECIFICATION

Power	3W
Power supply	100~240V
Working	10000h
Illumination	10000lux



Suitable for digital microscopes
 5301-D400, 5303-AF103, 5310-DL401,
 ISM-DL300, ISM-DL301, ISM-DL302,
 ISM-DL400, ISM-DL510

SPECIFICATION				
Power 8W				
Diameter of mounting hole Ø25mm				
Power supply 10~12V, 0~300mA				

brightness adjustment knob

### 18

### COAXIAL LIGHT CODE ISM-DL-COAXIAL

for smooth surfaces and small holes, brightness is adjustable

0	
Contraction of the second seco	— brightness adjustment knob



#### SPECIFICATION

Power	1W
Power supply	0~3.4V, 0~400mA

### **AUXILIARY OBJECTIVES**

*<i><b>+INSIZE* 

#### ATTENTION: PLEASE MAKE CONFOCAL ADJUSTMENT AFTER CHANGING CAMERA ADAPTERS OR AUXILIARY OBJECTIVES



0.3X auxiliary objective ISM-DL-OB03X



0.5X auxiliary objective ISM-DL-OB05X



ISM-DL-OB075X



1X auxiliary objective ISM-DL-OB1X



1.5X auxiliary

objective

ISM-DL-OB1D5X



2X auxiliary objective ISM-DL-OB2X

Suitable for digital microscopes 5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510

#### MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD (5303-AF103)

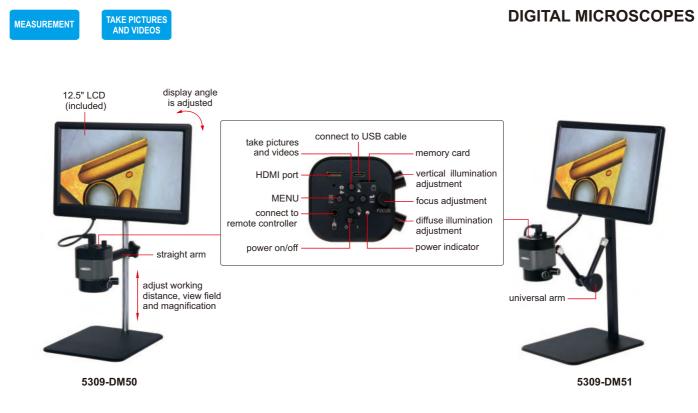
Auxiliary objective	Specification	Camera a	Camera adapter	
		0.5X (included)	1X (optional)	
0.3X (optional)	Magnification	6~37X	12~74X	
	Focus distance	120~310mm	120~310mm	
(optional)	View field	52×30~8×5mm	26×15~4×2.5mm	
	Magnification	10~61X	20~123X	
0.5X (optional)	Focus distance	78~230mm	78~230mm	
(optional)	View field	37×20~5×3mm	18×10~2.5×1.5mm	
	Magnification	15~92X	30~184X	
0.75X (optional)	Focus distance	60~125mm	60~125mm	
(optional)	View field	21×13~3.4×2mm	10×6.5~1.7×1mm	
1X	Magnification	20~123X	40~246X	
(included)	Focus distance	48~84mm	48~84mm	
(indicada)	View field	15×8~2.5×1.5mm	7.5×4~1.3×0.7mm	
1.5X (optional)	Magnification	30~184X	60~368X	
	Focus distance	36~63mm	36~63mm	
	View field	10×6~1.7×1mm	5×3~0.9×0.5mm	
27	Magnification	40~246X	80~492X	
2X (optional)	Focus distance	24~42mm	24~42mm	
	View field	7.5×4~1.3×0.7mm	3.8×2~0.7×0.4mm	

#### MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD (5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510)

Auxiliary objective	Specification	Camera adapter	
Auxiliary Objective		0.5X (included)	1X (optional)
	Magnification	5~34X	10~68X
0.3X <sup>*</sup>	Focus distance	287±2mm	287±2mm
(optional)	View field	42×26~6.5×4.5mm	21×13~3.3×2.3mm
0.5X <sup>*</sup>	Magnification	9~56X	18~112X
0.5X (optional)	Focus distance	166±2mm	166±2mm
(optional)	View field	25.6×16.8~5×3.5mm	12.8×8.4~2×1.3mm
0.75X*	Magnification	13~84X	26~168X
0.75X (optional)	Focus distance	105±2mm	105±2mm
(optional)	View field	17×10.5~2.6×1.7mm	8.5×5.3~1.3×0.9mm
1X	Magnification	15~100X	30~200X
(included)	Focus distance	70±2mm	70±2mm
(included)	View field	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
1.5X	Magnification	26~168X	52~336X
(optional)	Focus distance	42±2mm	42±2mm
(optional)	View field	8.5×5.2~1.3×0.9mm	4.3×2.6~0.7×0.5mm
27	Magnification	30~200X	60~400X
2X (optional)	Focus distance	29±2mm	29±2mm
(optional)	View field	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm

\*For auxiliary objectives 0.3X, 0.5X, 0.75X,

use contour illumination of 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510 or LED light



- Independent control of vertical illumination and diffuse illumination
- Back focus adjustment extends working distance
- Take pictures and videos, save to memory card

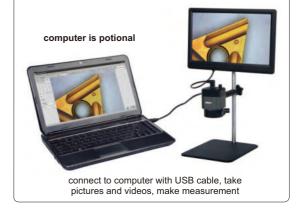


#### SPECIFICATION

Code	5309-DM50	5309-DM51	
Arm type	straight	universal	
Sensor	1/2.8" CMOS		
Pixel	2M		
Resolution	1920×1080		
Exposure	real-time auto, single auto, manual adjustment		
White balance	real-time auto, single auto, manual RGB adjustment		
Record format	pictures: JPG videos: MOV		
Record media	memory card		
Working distance	46~186mm	46~320mm	
Magnification	6.6~39.4X	3.8~39.4X	
View field	7×4~42×24mm	7×4~71×40mm	
Power supply	DC12V 3A		

# MAGNIFICATION, VIEW FIELD AND MEASURING ACCURACY (use computers, optional)

Image magnification	View field Measuring accuracy	
6.6X	42.0×24.0mm	±0.02mm
7.3X	37.8×21.5mm	±0.02mm
8.9X	30.9×16.2mm	±0.02mm
10.8X	25.7×14.5mm	±0.02mm
13.8X	20.1×10.8mm	±0.02mm
15.2X	18.2×10.0mm	±0.02mm
18.5X	15.0×8.5mm	±0.01mm
25.2X	11.1×6.1mm	±0.01mm
31.5X	8.8×5.0mm	±0.01mm
39.4X	7.0×4.0mm	±0.01mm

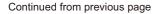


INSIZ

#### STANDARD DELIVERY

Main unit	1 pc
8G memory card and holder	1 pc
Plastic calibration rule	1 pc
White/black plate	1 pc
Remote controller	1 pc
USB cable	1 pc
Measuring software	1 pc
Power adapter	1 pc

To be continued

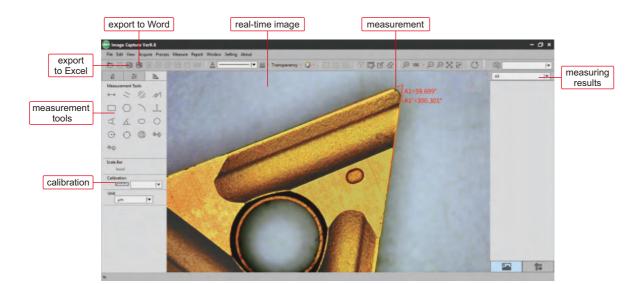


*<i>AINSIZE* 



### SOFTWARE FOR COMPUTER

- Language: Chinese (Simplified), English, French, Chinese (Traditional), Portuguese, Korean, Japanese
- Operation system: Windows 7/8/8.1/10 (64bit)



#### Measurement tools:

18

←→ straight line distance measurement	parallel lines distance measurement
polyline line measurement	rectangular measurement
arc measurement	three-vertical-line measurement
Angle measurement	O ellipse measurement
C circle measurement by radius	circle measurement by 3-point
Image: the second s	enter distance measurement by 3-point
Data export to Word or Excel:	
export to word	export to excel
	and a second
And Annual An Annual Annual	

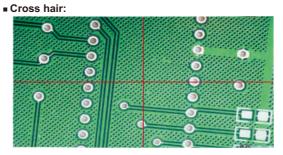
- centre distance between parallel lines measurement
- polygon measurement
- ✓ four-point perspective measurement
- round measurement
- (o) torus measurement





#### SPECIFICATION

Display resolution	1024×600
Sensor	1/3" CMOS
Sensor resolution	1280×960
Single pixel size	2µm×2µm
Frame rate	60fps/30fps
Magnification	1X~16X
White balance	auto/manual (10 levels RGB)/calibration
Exposure control	AE lock/exposure compensation (10 levels)
Image control	contrast/saturation/sharpness
Record media	memory card
Output	HDMI
Power supply	built-in lithium battery/power adapter
Dimension (L×W×H)	174×200×350mm
Weight	1.5kg



Grid (color, line thickness and positions are adjustable):



#### STANDARD DELIVERY

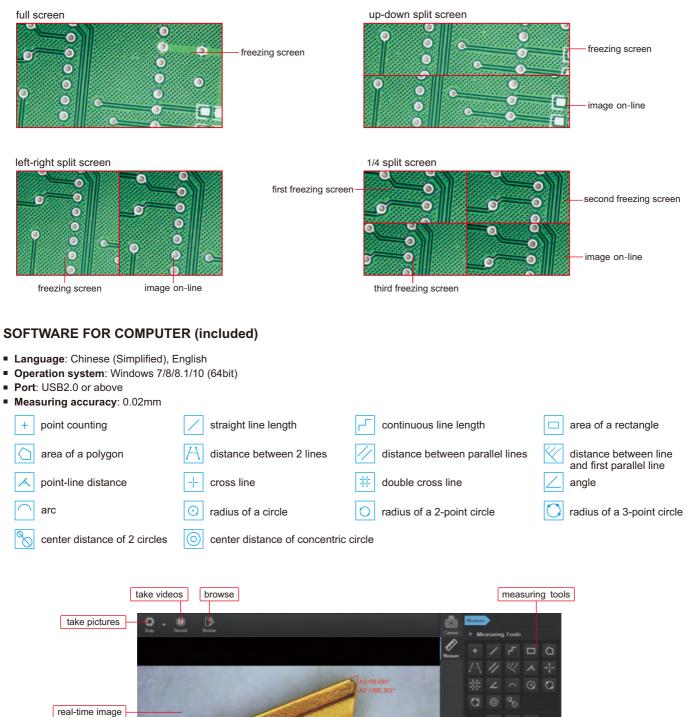
Main unit	1 pc
USB cable	1 pc
HDMI cable	1 pc
IR remote controller	1 pc
8G memory card and holder	1 pc
Plastic calibration rule	1 pc
Power adapter	1 pc

To be continued

Continued from previous page

*<b>HINSIZE* 

#### Screen freezing:





6

calibration



ISM-PM200SA

computer is optional

- Can take pictures and videos Supplied with software
- Calibration rules
- (graduation 0.1 and 1mm) are included
- With focus support

#### SPECIFICATION

Code	ISM-PM200SA	ISM-PM200SB	
Magnification	10X~200X	10X~200X	
Stand	standard	universal	
Pixel	2M (resolution: 1600×1200)		
llumination	built-in adjustable LED		
Power supply	USB 2.0 cable (voltage required: 5±0.1V)		

#### OPTIONAL ACCESSORY

Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE

#### SOFTWARE

- Language: English, Japanese, Korean, German, Turkey, Portuguese, Chinese
- Operation system: Windows 7/8/XP/Vista
- Measuring tools:

and calculate angle detect line automatically, and calculate length

measure length of line or measure radius, length and angle of arc distance between two points measure area of rectangle (I)add number with circle ō measure distance between measure length  $\mathcal{N}$ of continuous line two circles measure distance between measure angle with two parallel lines three points measure radius, measure angle with two lines A girth and area of circle measure distance between Α add text point and line Edge detection measurement tools: detect two parallel lines automatically and calculate distance detect circle automatically, and calculate radius, girth and area detect arc automatically, and calculate radius, angle and arc length detect two lines automatically,

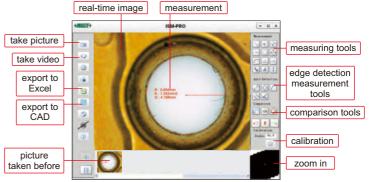
universal stand (included in ISM-PM200SB)



INSIZE

#### MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	21mm	8.1×6.4mm	30µm
100X	13mm	3.9×3.1mm	15µm
150X	16mm	2.6×2.1mm	10µm
200X	19mm	1.8×1.5mm	8µm



Comparison tools:

Create line, angle or circle with desired size, to compare with workpieces













### WIFI DIGITAL MEASURING MICROSCOPE CODE ISM-WF200



- Maximum working distance is 5m under WiFi mode
- Can be connected to multiple iPads, Android devices or computers together under WiFi mode
- Take pictures and videos
- Supplied with software

filter (**optional**)



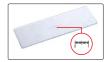


stand (code ISM-PM-STAND, optional)









plastic calibration rule (graduation 1mm, included)

glass calibration rule (graduation 0.1mm, included)

### SPECIFICATION

Magnification	10X~200X
Pixel	1.3M (resolution: 1280×1024)
Illumination	built-in adjustable LED
Power supply	built-in rechargeable battery





#### STANDARD DELIVERY

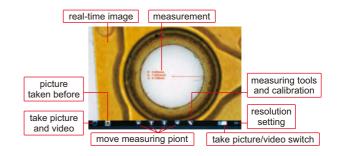
Microscope	1 pc
Focus support ring for 80X/150X	1 pc
Focus support ring for 60X/200X	1 pc
Glass calibration rule (graduation 0.1mm)	1 pc
Plastic calibration rule (graduation 1mm)	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc





### MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	21mm	8.1×6.4mm	30µm
100X	13mm	3.9×3.1mm	15µm
150X	16mm	2.6×2.1mm	10µm
200X	19mm	1.8×1.5mm	8µm



To be continued

#### OPTIONAL ACCESSORY

18

Stand	ISM-PM-STAND
Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE

### Software ISM-PAD (for iPad by WiFi)

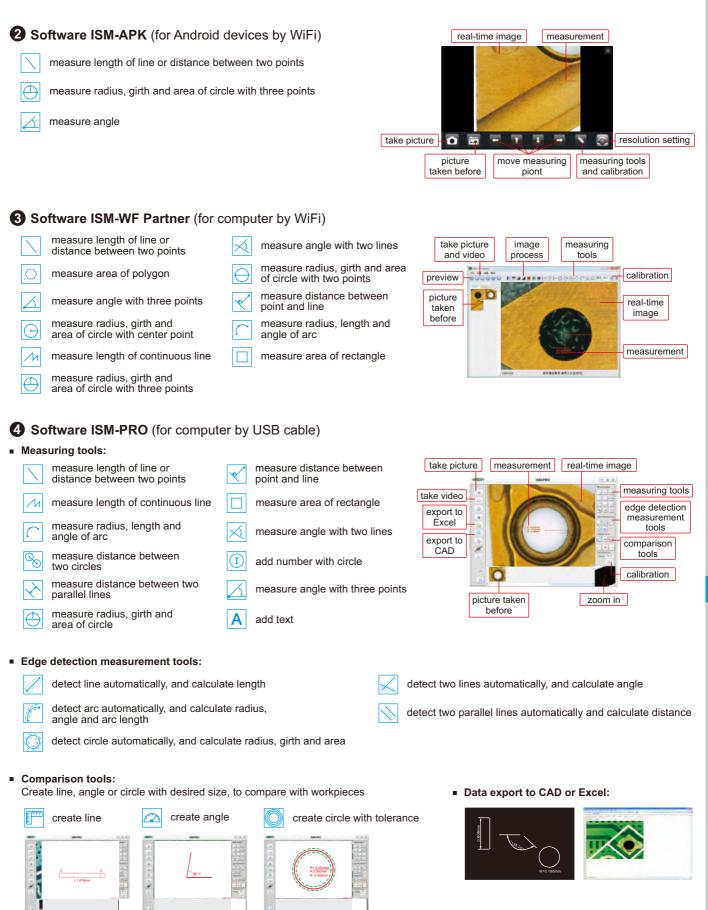
measure length of line or distance between two points

measure radius, girth and area of circle with three points

Measure angle

MACNU

Continued from previous page



18

-INSIZE

### **INDUSTRIAL MICROSCOPES**

*<i>AINSIZE-*



- uniform illumination field
- Objective 50X is spring type

#### SPECIFICATION

brecification								
5101-M500**(bright field objectives)				5101-M500BD** (bright & dark field objectives)				
6V/30W halogen lamp, brightness is adjustable				12V/50W halogen lamp, brightness is adjustable				
bright field o	bjectives			bright & dark	field objective	S		
5X	10X	20X	50X	5X	10X	20X	50X	
26.1mm	20.2mm	8.80mm	3.68mm	9.70mm	9.30mm	7.23mm	2.50mm	
0.12	0.25	0.40	0.70	0.12	0.25	0.40	0.70	
50X~500X	50X~500X							
10X (view fie	10X (view field: Ø22mm)							
double layer								
size: 160×14	size: 160×140mm							
travel: 35x3	travel: 35x30mm							
53~75mm								
±5 diopter (o	one eyepiece)	)						
220V, 50/60Hz **								
415×345×38	415×345×380mm							
14kg								
	6V/30W hale bright field o 5X 26.1mm 0.12 50X~500X 10X (view field double layer size: 160×14 travel: 35x30 53~75mm ±5 diopter (c 220V, 50/60 415×345×38	6V/30W halogen lamp, br         bright field objectives         5X       10X         26.1mm       20.2mm         0.12       0.25         50X~500X       10X (view field: Ø22mm)         double layer       size: 160×140mm         travel: 35x30mm       53~75mm         ±5 diopter (one eyepiece)       220V, 50/60Hz **         415×345×380mm       53	6V/30W halogen lamp, brightness is ad         bright field objectives         5X       10X       20X         26.1mm       20.2mm       8.80mm         0.12       0.25       0.40         50X~500X       0.40       50X~500X         10X (view field: Ø22mm)       double layer         size: 160×140mm       travel: 35x30mm         53~75mm       ±5 diopter (one eyepiece)         220V, 50/60Hz **       415×345×380mm	6V/30W halogen lamp, brightness is adjustable         bright field objectives         5X       10X       20X       50X         26.1mm       20.2mm       8.80mm       3.68mm         0.12       0.25       0.40       0.70         50X~500X       10X (view field: Ø22mm)       0.40       0.70         double layer       size: 160×140mm       160×140mm         travel: 35x30mm       53~75mm       154         ±5 diopter (one eyepiece)       220V, 50/60Hz **       415×345×380mm	6V/30W halogen lamp, brightness is adjustable       12V/50W halogen lamp, brightness is adjustable       12V/50W halogen lamp, brightness is adjustable         bright field objectives       bright & dark         5X       10X       20X       50X         5X       10X       20X       50X       5X         26.1mm       20.2mm       8.80mm       3.68mm       9.70mm         0.12       0.25       0.40       0.70       0.12         50X~500X             10X (view field: Ø22mm)             double layer              size: 160×140mm               53~75mm	6V/30W halogen lamp, brightness is adjustable       12V/50W halogen lamp, brightness is adjustable         bright field objectives       bright & dark field objective         5X       10X       20X       50X       5X       10X         26.1mm       20.2mm       8.80mm       3.68mm       9.70mm       9.30mm         0.12       0.25       0.40       0.70       0.12       0.25         50X~500X       10X (view field: Ø22mm)       0.40       0.70       0.12       0.25         10X (view field: Ø22mm)       0.0ble layer       53~75mm       53~75mm       53~75mm         ±5 diopter (one eyepiece)       220V, 50/60Hz **       415×345×380mm       415×345×380mm	6V/30W halogen lamp, brightness is adjustable       12V/50W halogen lamp, brightness is adjustable         bright field objectives       bright & dark field objectives         5X       10X       20X       50X       5X       10X       20X         26.1mm       20.2mm       8.80mm       3.68mm       9.70mm       9.30mm       7.23mm         0.12       0.25       0.40       0.70       0.12       0.25       0.40         50X~500X       10X (view field: Ø22mm)       0.40       0.70       0.12       0.25       0.40         10X (view field: Ø22mm)       0.0ble layer       53~75mm       53~75mm       53~75mm       53~75mm         ±5 diopter (one eyepiece)       220V, 50/60Hz <b>**</b> 415×345×380mm       415×345×380mm       53~75mm	

\*\* Add "-U" on code No. when power supply is 110V, 50/60Hz

#### STANDARD DELIVERY

Main unit	1 pc
Anti-dust cover	1 pc

#### **OPTIONAL ACCESSORY**

	PL40X	5101-M-BD40X		
Bright & dark field objective	PL60X	5101-M-BD60X		
(for 5101-M500BD)	PL80X	5101-M-BD80X		
	PL100X	5101-M-BD100X		
10X dividing eyepiece	(0.1mm/div.)	5101-M-EPD10X		
	PL40X	5101-M-OB40X		
Bright field objective	PL60X	5101-M-OB60X		
(for 5101-M500)	PL80X	5101-M-OB80X		
	PL100X	5101-M-OB100X		
Digital camera		ISM-CM20, ISM-CM63, ISM-ZS70-S		
Camera adapter *		5101-M-ADAPTER		

### INDUSTRIAL INSPECTION MICROSCOPE (LARGE STAGE) CODE 5104-M700\*\*

-INSIZE+)



For observation and inspection of large IC and chip in IT industry

#### SPECIFICATION

Magnification	40X~400X	40X~400X					
Eyepiece (wide field)	10X (view field: Ø2	10X (view field: Ø22mm)					
Objective (plan achromatic)	4X	4X 10X 20X 40X					
Numerical aperture	0.10	0.25	0.40	0.60			
Working distance	17.8mm	10mm	5.8mm	2.9mm			
Stage	double layer, size:	double layer, size: 300×268mm, travel: 250×200mm					
Kohler illumination	6V/20W halogen la	6V/20W halogen lamp, brightness is adjustable built-in green, blue, yellow and frosted glasses					
Pupil distance	48~75mm	48~75mm					
Diopter adjustment	±5 diopter (two eye	±5 diopter (two eyepieces)					
Power supply	220V, 50/60Hz**						
Dimension (L×W×H)	647×268×376mm	647×268×376mm					
Weight	12kg	12kg					

\*\* Add "-U" on code No. when power supply is 110V, 50/60Hz

#### STANDARD DELIVERY

Main unit	1 pc
Camera connector	1 pc
Anti-dust cover	1 pc

#### **OPTIONAL ACCESSORY**

	2.5X plan achromatic objective (focus distance: 11.7mm)	5104-M700-OB2.5X	
Bright field objective	5X plan achromatic objective (focus distance: 15.5mm)	5104-M700-OB5X	
Bright held objective	50X plan achromatic objective (focus distance: 0.32mm)	5104-M700-OB50X	
	100X plan achromatic objective (focus distance: 2mm)	5104-M700-OB100X	
Polarizer and analyzer		5104-M700-AP	
Digital camera		ISM-CM20, ISM-CM63, ISM-ZS70-S	
Camera adapter 0.5X*		ISM-MAS-ADAPTER	

### **METALLURGICAL MICROSCOPES**

*<i>AINSIZE* 



- illumination, polarizing observation Kohler illumination system provides uniform illumination field
- Objectives 40X, 60X are spring type





#### SPECIFICATION

Code	5102-M600** (bright field objectives)				5102-M600BD** (bright & dark field objectives)				
Illumination	6V/30W (transmitted) 6V/30W (reflected)			12V/30W (transmitted) 12V/		12V/50V	V (reflected)		
Objective	bright field o	bjectives			bright & dar	k field objectiv	es		
(infinite plan achromatic)	5X	10X	40X	60X	5X	10X	20X	40X	
Working distance	26.1mm	20.2mm	3.98mm	3.18mm	9.70mm	9.30mm	7.20mm	3.00mm	
Numerical aperture	0.12	0.25	0.60	0.70	0.12	0.25	0.40	0.70	
Magnification	50X~600X	50X~600X				50X~400X			
Eyepiece (wide field)	10X (view fie	10X (view field: Ø22mm)							
	double layer								
Stage	size: 210×14	size: 210×140mm							
	travel: 75x50	travel: 75x50mm							
Pupil distance	53~75mm	53~75mm							
Diopter adjustment	±5 diopter (c	±5 diopter (one eyepiece)							
Power supply	220V, 50/60Hz **								
Dimension (L×W×H)	456×260×49	456×260×498mm							
Weight	11kg								

\*\* Add "-U" on code No. when power supply is 110V, 50/60Hz

#### STANDARD DELIVERY

Main unit	1 pc
Anti-dust cover	1 pc
Filter (blue/frosted glass)	1 pc of each

#### **OPTIONAL ACCESSORY**

	PL50X	5101-M-BD50X		
Bright & dark field objective	PL60X	5101-M-BD60X		
(for 5102-M600BD)	PL80X	5101-M-BD80X		
/	PL100X	5101-M-BD100X		
10X dividing eyepiece	(0.1mm/div.)	5101-M-EPD10X		
	PL20X	5101-M-OB20X		
Bright field objective	PL50X	5101-M-OB50X		
(for 5102-M600)	PL80X	5101-M-OB80X		
	PL100X	5101-M-OB100X		
Digital camera		ISM-CM20, ISM-CM63, ISM-ZS70-S		
Camera adapter *		5101-M-ADAPTER		

### **METALLURGICAL MICROSCOPES**

11/5/74



Infinite optical system, polarization observation
Kohler illumination system provides uniform illumination field
Objectives 50X, 100X are spring type

#### SPECIFICATION

Code	5103-M1000** (bright field objectives)				5103-M1000BD** (bright & dark field objectives)				
Illumination	6V/30W halogen lamp, brightness is adjustable				12V/50W halogen lamp, brightness is adjustable				
Objective	bright field o	bjectives			bright & dar	k field objectiv	es		
(infinite plan achromatic)	10X	20X	50X	100X	5X	10X	20X	50X	
Working distance	20.2mm	8.80mm	3.68mm	0.40mm	9.70mm	9.30mm	7.23mm	2.50mm	
Numerical aperture	0.25	0.40	0.70	0.85	0.12	0.25	0.40	0.70	
Magnification	100X~1000	100X~1000X				50X~500X			
Eyepiece (wide field)	10X (view fie	10X (view field: Ø22mm)							
	double layer								
Stage	size: 242×20	)0mm							
	travel: 30x30	travel: 30x30mm							
Pupil distance	53~75mm								
Diopter adjustment	±5 diopter (c	one eyepiece)							
Power supply	220V, 50/60Hz **								
Dimension (L×W×H)	614×250×39	614×250×394mm							
Weight	13kg	13kg							

\*\*Add "-U" on code No. when power supply is 110V, 50/60Hz

#### STANDARD DELIVERY

Main unit	1 pc
Polarizer and analyzer	1 pc of each
Anti-dust cover	1 pc

#### **OPTIONAL ACCESSORY**

	PL40X	5101-M-BD40X
Bright & dark field objective	PL60X	5101-M-BD60X
(for 5103-M1000BD)	PL80X	5101-M-BD80X
	PL100X	5101-M-BD100X
10X dividing eyepiece (0.1mm/	div.)	5103-M-EPD10X
	PL5X	5101-M-OB5X
Bright field objective	PL40X	5101-M-OB40X
(for 5103-M1000)	PL60X	5101-M-OB60X
	PL80X	5101-M-OB80X
Digital camera		ISM-CM63
Camera adapter *		5101-M-ADAPTER





- Greenough optical system, clear observation, real color
- High working distance is convenient for operation
- Excellent flat image and large depth of field, make observation comfortable
   6.7:1 large zoom ratio, allow quick observation adjustment

#### SPECIFICATION

18

*<i>AINSIZE* 

Optical tube	trinocular
Eyepiece (wide field)	10X (view field: Ø22mm)
Objective	0.67X~4.5X (zoom)
Observation tube	45° trinocular tube inclination angle, built-in 0.5X adapter
Zoom ratio	6.7:1
Pupil distance	50~75mm
Diopter adjustment	-8~+5 diopter (both eyepieces)
Working distance of objective	110mm
Max. workpiece height	106mm
Illumination	adjustable LED light
Power supply	110/220V
Dimension (L×W×H)	330×300×368mm
Weight	3.5kg



frosted glass filter (included)



#### STANDARD DELIVERY

Main unit	1 pc
10X eyepiece	2 pcs
Ø100mm glass plate	1 pc
Ø100mm white/black plate	1 pc
Anti-dust cover	1 pc
•	

#### **OPTIONAL ACCESSORY**

A	0.5X	5107-S70T-OB05X
Auxiliary objective	1.5X	5107-S70T-OB15X
e sjoon vo	2X	5107-S70T-OB20X
Eyepiece	15X (view field: Ø16mm)	5107-S70T-EP15X
Lyepiece	20X (view field: Ø12.5mm)	5107-S70T-EP20X
LED ring lig	ht	ISM-ZS-RL
Digital came	era	ISM-CM20, ISM-CM63, ISM-ZS70-S



### PARALLEL LIGHT STEREO MICROSCOPE CODE ISM-ZS200

PARALLEL LIGHT PATH: REDUCE FATIGUE, ACCESSORIES CAN BE ADDED INTO LIGHT PATH



optical path splitter (optional)



SPECIFICATION

Optical tube	binocular (20° inclined)
Eyepiece (wide field)	10X (view field: Ø22mm)
Objective	0.8X~8X (zoom)
Zoom ratio	1:10
Pupil distance	55~75mm
Diopter adjustment	±5 diopter (both eyepieces)
Working distance of objective	78mm
Max. workpiece height	72mm
Illumination	adjustable reflected and transmitted LED light
Power supply	110/220V, 50/60HZ
Dimension (L×W×H)	240×280×440mm
Weight	4.3kg

Infinity parallel optical system and 20° inclined optical tube reduce fatigue

Coaxial illumination is optional for deep holes which cannot be observed by ring light
 Aperture diaphragm is optional for large depth of field and high quality image

iris diaphragm (**optional**)



#### STANDARD DELIVERY

Main unit	1 pc
WF10X eyepiece	2 pcs
Ø100mm glass plate	1 pc
Ø100mm white/black plate	1 pc
Anti-dust cover	1 pc

#### **OPTIONAL ACCESSORY**

	0.5X achromatic objective (focus distance: 186mm)	ISM-ZS200-OB05X *
Objective	2X plan achromatic objective (focus distance: 32.5mm)	ISM-ZS200-OB2X
	0.5X plan apochromatic objective (focus distance: 126mm)	ISM-ZS200-APO05X*
	WF15X (view field: Ø16mm)	ISM-ZS200-EP15X
Eyepiece	WF20X (view field: Ø12mm)	ISM-ZS200-EP20X
	WF30X (view field: Ø20mm)	ISM-ZS200-EP30X
Sleeve for objectiv	e	ISM-ZS30-ADAPTER
Iris diaphragm		ISM-ZS200-IRD
Optical path splitte	er	ISM-ZS200-OBS
Coaxial illuminatio	n	ISM-ZS200-COAXIAL
Digital camera **		ISM-CM20, ISM-CM63

\*0.5X achromatic objective must be used with sleeve ISM-ZS30-ADAPTER

\*\*Digital camera must be used with optical path splitter

### ZOOM STEREO MICROSCOPES (ADVANCED TYPE)



application (code: **ISM-ZS100T**)

connect to digital camera





LED ring light (optional)

#### SPECIFICATION

18

*<i>AINSIZE* 

Code	ISM-ZS100	ISM-ZS100T
Optical tube	binocular	trinocular
Eyepiece (wide field)	10X (view field: Ø23mm)	
Objective	0.6X~5X (zoom)	
Zoom ratio	1:8.3	
Pupil distance	55~75mm	
Diopter adjustment	±5 diopter (two eyepieces)	
Working distance of objective	115mm	
Max. workpiece height	75mm	
Illumination	adjustable reflected and transmitted LED light	
Power supply	110/220V, 50/60HZ	
Dimension (L×W×H)	260×310×490mm	
Weight	4.9kg	

#### STANDARD DELIVERY

1 pc
1 pc
2 pcs
1 pc
1 pc
1 pc

#### **OPTIONAL ACCESSORY**

UP HONAL P	ACCESSORT	
Auxiliary	0.5X (focus distance: 220mm)	ISM-ZS100-OB05X *
objective	0.7X (focus distance: 125mm)	ISM-ZS100-OB07X
	2X (focus distance: 45mm)	ISM-ZS100-OB2X
	WF15X (view field: Ø16mm)	ISM-ZS100-EP15X
Eyepiece	WF20X (view field: Ø12mm)	ISM-ZS100-EP20X
	WF30X (view field: Ø8mm)	ISM-ZS100-EP30X
Sleeve for	auxiliary objective	ISM-ZS30-ADAPTER
LED ring li	ght	ISM-ZS-RL
Digital cam	nera adapter 1X for ISM-ZS100T	ISM-ZS100-DA
Digital cam	nera for ISM-ZS100T	ISM-CM20, ISM-CM63, ISM-ZS70-S

\*0.5X auxiliary objective must be used with sleeve ISM-ZS30-ADAPTER

### ZOOM STEREO MICROSCOPES (STANDARD TYPE)

-INSIZE+



ISM-ZS50

#### SPECIFICATION

LED ring light (optional)

Code	ISM-ZS50	ISM-ZS50T
Optical tube	binocular	trinocular
Eyepiece (wide field)	10X (view field: Ø22mm	)
Objective	0.8X~5X (zoom)	
Zoom ratio	1:6.3	
Pupil distance	55~75mm (adjustable)	
Diopter adjustment	±5 diopter (two eyepiece	es)
Working distance of objective	115mm	
Max. workpiece height	75mm	
Illumination	adjustable reflected and	transmitted LED light
Power supply	110/220V, 50/60HZ	
Dimension (L×W×H)	290×260×480mm	
Weight	4.9kg	

STANDARD DELIVERY
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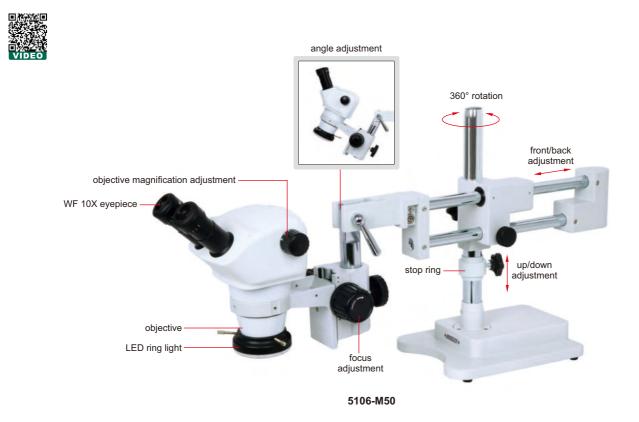
Main unit	1 pc
WF 10X eyepiece	2 pcs
Ø100mm glass plate	1 pc
Ø100mm white/black plate	1 pc
Anti-dust cover	1 pc

### OPTIONAL ACCESSORY

Auxiliary objective	0.5X	ISM-ZS50-OB05X*
	2X	ISM-ZS50-OB2X
	10X dividing eyepiece (graduation 0.1mm/div.)	ISM-ZS50-EPD10X
Eyepiece	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
LED ring light		ISM-ZS-RL
Sleeve for auxiliary objective		ISM-ZS30-ADAPTER
Digital camera for ISM-ZS50T		ISM-CM20, ISM-CM63, ISM-ZS70-S
Camera adapter 0.5X for	ISM-ZS50T **	ISM-MAS-ADAPTER

\*0.5X auxiliary objective must be used with ISM-ZS30-ADAPTER

### ZOOM STEREO MICROSCOPES (WITH UNIVERSAL STAND)



#### SPECIFICATION

*<i>AINSIZE* 

Code	5106-M50	5106-M50T
Optical tube	binocular	trinocular
Eyepiece (wide field)	10X (view field: Ø22mm)	
Objective	0.8X~5X (zoom)	
Zoom ratio	1:6.3	
Pupil distance	55~75mm	
Diopter adjustment	±5 diopter (two eyepieces)	
Working distance of objective	115mm	
Max. workpiece height	300mm	
Illumination	adjustable reflected LED ring light	
Power supply	power adapter	
Dimension (L×W×H)	790×230×430mm	
Weight	20kg	

#### STANDARD DELIVERY

Main unit (with stand)	1 pc
WF10X eyepiece	2 pcs
LED ring light	1 pc
Anti-dust cover	1 pc

#### OPTIONAL ACCESSORY

Auxiliary objective	0.5X	ISM-ZS50-OB05X *	
	2X	ISM-ZS50-OB2X	
	10X dividing eyepiece (0.1mm/div.)	ISM-ZS50-EPD10X	
Eyepiece	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X	
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X	
Sleeve for auxiliary objective		ISM-ZS30-ADAPTER	
Digital camera for 5106-M50T		ISM-CM20, ISM-CM63, ISM-ZS70-S	
Camera adapter 0.5X for 5106-M50T **		ISM-MAS-ADAPTER	

\*0.5X auxiliary objective must be used with ISM-ZS30-ADAPTER

### ZOOM STEREO MICROSCOPE (BASIC TYPE) CÒDE ISM-ZS30

INSIZE

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#### SPECIFICATION

binocular
10X (view field: Ø20mm)
1X~4.5X (zoom)
1:4.5
55~75mm (adjustable)
±5 diopter (two eyepieces)
97mm
60mm
adjustable reflected and transmitted LED light
110/220V, 50/60HZ
260×190×400mm
4.3kg





LED ring light (optional)

#### STANDARD DELIVERY

Main unit	1 pc
WF 10X eyepiece	2 pcs
Ø95mm glass plate	1 pc
Ø95mm white/black plate	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY		
	0.5X	

	0.5X	ISM-ZS30-OB05X*
Auxiliary	0.63X	ISM-ZS30-OB06X*
objective	0.75X	ISM-ZS30-OB07X*
	2X	ISM-ZS30-OB2X
	10X dividing eyepiece (graduation 0.1mm/div.)	ISM-ZS30-EPD10X
Eyepiece	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
LED ring light		ISM-ZS-RL
Sleeve for auxiliary objective		ISM-ZS30-ADAPTER
Digital camera		ISM-CM63
Camera adapter 0.75X *** ISM-AD-0D75		ISM-AD-0D75
*0.5X, 0.63X and 0.75X auxiliary objectives must be used with ISM-ZS30-ADAPTER		

\*\*Digital camera must be used with camera adapter 0.75X

### LONG WORKING DISTANCE STEREO MICROSCOPE (LOW MAGNIFICATION) CODE 5305-ZS80

#### SPECIFICATION

Magnification	8X
Eyepiece (wide field)	10X (view field: Ø20mm)
Objective	0.8X
Pupil distance	55~75mm
Diopter adjustment	±5 diopter (one eyepiece)
Working distance of objective	115mm
Max. workpiece height	100mm
Dimension (L×W×H)	280x160x370mm
Weight	3.7kg

#### STANDARD DELIVERY

Main unit	1 pc
10X eyepieces	1 pair
0.8X objective	1 pc
Anti-dust cover	1 pc

#### **OPTIONAL ACCESSORY**

	WF5X (view field: Ø20mm)	5305-ZS80-EP5X
Eyepiece	WF15X (view field: Ø15mm)	5305-ZS80-EP15X
	WF20X (view field: Ø10mm)	5305-ZS80-EP20X
LED ring lig	ght	ISM-ZS-RL





### POLARIZING MICROSCOPE CODE ISM-POL1000



#### SPECIFICATION

Magnification	40X~600X				
Eyepiece	10X (view field: Ø20mm)				
Infinite strain free plan achromatic objective	4X (transmitted/ reflected)	10X (transmitted/ reflected)	20X (transmitted)	40X (transmitted)	60X (transmitted)
Working distance	22.2mm	6.1mm	6.4mm	0.6mm	0.3mm
Numerical aperture	0.1	0.25	0.4	0.65	0.8
	revolving round stage				
Stage	diameter: Ø160mm				
	graduation: 1°, resolution: 6'				
Pupil distance	53~75mm				
Diopter adjustment	±5 diopter (one eyepiece)				
Illumination         12V/50W halogen lamp, brightness is adjustable (reflected illumination)           12V/20W halogen lamp, brightness is adjustable (transmitted illumination)	12V/50W halogen lamp, brightness is adjustable (reflected illumination)				
	mination)				
Power supply	110/220V, 50/60HZ				
Dimension (L×W×H)	614×250×394mm				
Weight	13kg				

#### STANDARD DELIVERY

Main unit	1 pc
Micrometer	1 pc
Grid plate	1 pc
10X crossing eyepiece (view field: Ø20mm)	1 pc
10X dividing eyepiece (view field: Ø20mm, graduation 0.1mm)	1 pc
λ slip (first class red) and 1/4λ slip	1 pc
Quartz wedge	1 pc

#### OPTIONAL ACCESSORY

Objective for reflected system	PL20X	ISM-POL1000-OBR20X	
	PL40X	ISM-POL1000-OBR40X	
	PL60X	ISM-POL1000-OBR60X	
	PL100X	ISM-POL1000-OBR100X	
Objective for transmitted system	PL100X	ISM-POL1000-OBT100X	
Specimen presser		ISM-POL1000-SP	



*+INSIZE+* 



Windows 10 operation system

ATTENTION: CAMERA CONNECTOR AND ADAPTER

- Built-in software, can take pictures and videos, can measure
- Language: Chinese, English, French, Japanese, German, Polish, Arabic
- Automatic exposure, white balance, brightness, contrast ratio, saturation are adjustable
   Image process feature: zoom in/out, flip, mirror, stitching and so on
- Output to Excel or CSV file

software (included) video mode tools image mode tools 400TXX\* BESH camera control panel measurement on pictures Measuring tools measure line measure meander line arrow mark measure polygon calibration measure angle measure rectangle measure circle text mark show/hide scale SPECIFICATION

Sensor	1/2.3" CMOS	
Pixel	16M	
Resolution	800×600, 1600×1200, 1920×1080, 2048×1536, 2304×1728, 2592×1944, 4608×3456	
Frame rate	30fps (1920×1080)	
Output	HDMI, USB 3.0	
Power supply	power adapter	
Dimension (L×W×H)	280.3×177.4×12.5mm	
Weight	0.9kg	

#### STANDARD DELIVERY

Main unit	1 pc
Mouse	1 pc
Glass calibration rule (graduation 0.1mm)	1 pc
AC/DC adapter	1 pc