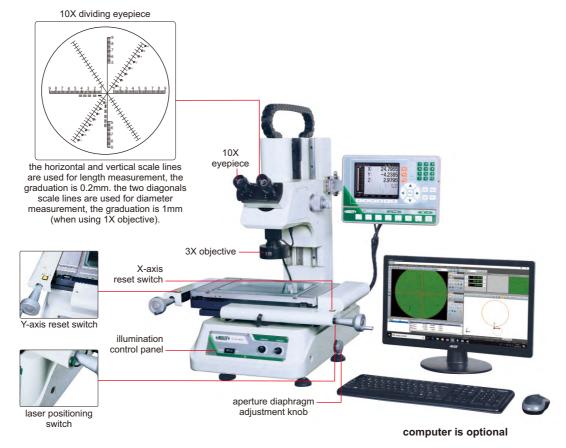


INSPECTION

TOOLMAKER MICROSCOPES





ISD-VMM215

SPECIFICATION

<u> </u>	binocular	ISD-VMM205	ISD-VMM215	ISD-VMM225	ISD-VMM235	
Code	monocular	ISD-VMM205D	ISD-VMM215D	ISD-VMM225D	ISD-VMM235D	
X/Y axis t	ravel	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	ge size	210×160mm	260×160mm	306×196mm	350×250mm	
Resolutio	on of X/Y/Z axis	0.5µm	0.5μm			
Accuracy of X/Y axis		≤(3.5+L/100)µm (L is the	≤(3.5+L/100)µm (L is the measuring length in mm)			
Repeatability		2μm	2μm			
Camera 1/		1/3" color CCD, 0.3M pi	1/3" color CCD, 0.3M pixel			
Optical magnification 30		30X (with 3X objective)	30X (with 3X objective)			
Image magnification		114X (on 19" monitor)				
Illumination		surface and contour with adjustable LED				
Max. weig	ght of workpiece	25kg				
Power su	pply	100V~240V, 50/60Hz	100V~240V, 50/60Hz			
Operation system Windows 7/8/10						
Drive me	thod	manual				
Dimensio	n (L×W×H)	540×667×850mm	540×667×850mm	800×675×920mm	800×675×920mm	
Weight		100kg	110kg	135kg	140kg	

DATA PROCESSING UNIT

Output	RS232
	simple measuring tools
	measure coordinate of points
	→ measure lines
	measure center coordinate, radius of circle with three points
	measure distances betwen two objects
Function	measure angles
	<u>├</u> set origin of coordinate
	skew and calibrate the workpiece
	क्रिक् measure rectangle (including length, width, perimeter and center coordinate)
	measure thread (including thread diameter, screw pitch, screw angle)
	measure slot (including center coordinate, length, width)

STANDARD DELIVERY

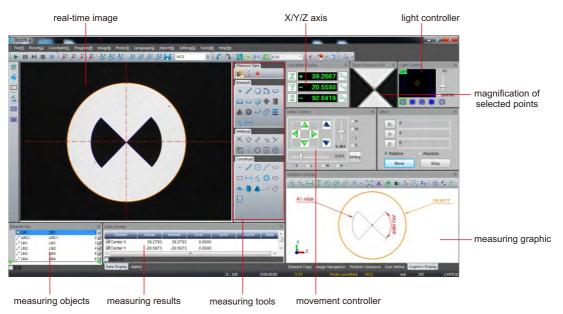
Main unit	1 pc
Video card with dongle	1 pc
Software disc	1 pc
Calibration glass chart	1 pc
Demo sample	1 pc
Foot switch	1 pc
3X objective	1 pc

OPTIONAL ACCESSORY

1X objective	ISD-VMM-LENS1X	
5X objective	ISD-VMM-LENS5X	
10X objective	ISD-VMM-LENS10X	
Toolmaker microscopes	Code: ISD-VMM205A (binocular) ISD-VMM215A (binocular) ISD-VMM225A (binocular) ISD-VMM235A (binocular)	
(with computer)	Code: ISD-VMM205DA (monocular) ISD-VMM215DA (monocular) ISD-VMM225DA (monocular) ISD-VMM235DA (monocular)	

SOFTWARE (INCLUDED)

■ Refer to page 409~410 for details



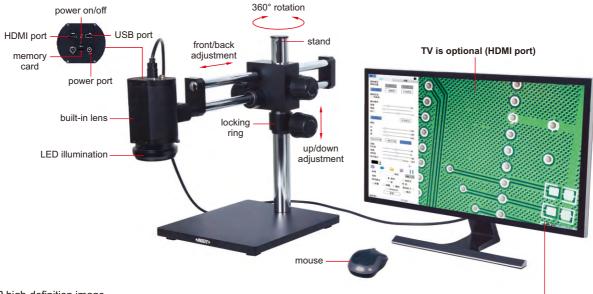


TAKE PICTURES AND VIDEOS

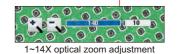


AUTO FOCUS DIGITAL MICROSCOPE (LARGE VIEW FIELD) CODE 5302-AF105

MEASUREMENT



- 1080P high-definition image
- Auto focus camera
- 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)
- Built-in software without computer, operation by mouse

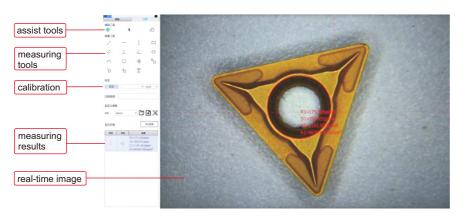


SPECIFICATION

Magnification	1.8X~27.5X (on 28" TV)	
Sensor	1/2.8" CMOS	
Pixel	2M	
Resolution	1920×1080	
Frame rate	60fps	
Auto focus distance	100mm~∞	
Output	HDMI	
Power supply	power adapter	
Dimension (L×W×H)	500×280×410mm	
Weight	17kg	

Focus distance	Adjustable magnification (on 28" TV)	View field	Measuring accuracy
100mm	0mm 4.5~27.5X 24×14		0.02mm
150mm	3~21X	30×17~240×128mm	0.02mm
200mm	2.3~17.5X	38×20~305×176mm	0.02mm
250mm	2~15X	42×24~320×210mm	0.02mm
270mm	1.8~14.4X	43×25~378×240mm	0.02mm

MEASURING SOFTWARE (INCLUDED)



STANDARD DELIVERY

STANDARD DELIVERT		
Main unit (with stand)	1 pc	
LED illumination	1 pc	
16G memory card and holder	1 pc	
Mouse	1 pc	
HDMI cable (for TV)	1 pc	
Power adapter	2 pcs	



HIGH-DEFINITION AUTO FOCUS MEASURING MICROSCOPE (WITH DISPLAY) CODE 5315-S710

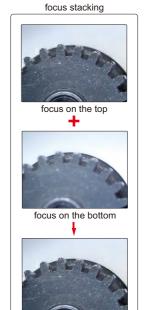
IMAGE STITCHING

DUAL SCREEN

FOCUS STACKING







clear image of both top and bottom



- 12M high-definition image
- Switchable LCD mode and computer mode
- Take pictures or videos, save to memory card
- Measurement results can be sent to Excel
- Auto focus
- Automatic white balance and exposure



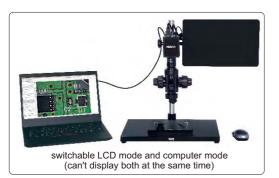
calibration plate (included)



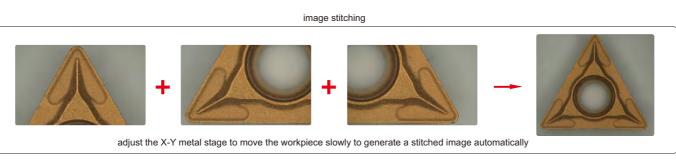
1X camera adapter (optional)



2X auxiliary objective (optional)









SPECIFICATION

Magnification	15X~100X (on 13.3" LCD)	
Sensor	1/1.7" CMOS	
Pixel	12M	
Resolution	4000×3000	
Frame rate	60fps	
Output	HDMI/USB	
Power supply	power adapter	
Dimension (L×W×H)	570×300×430mm	

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD (on 13.3" LCD)

Specification	Camera adapter		
Specification	0.5X (included)	1X (optional)	
Magnification	15~100X	30~200X	
Focus distance	80±2mm	80±2mm	
View filed	20.0×11.2~5.5×3.1mm	10.0×5.6~2.7×1.5mm	

STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
32G memory card	1 pc
Mouse	1 pc
X-Y metal stage	1 pc

OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
Computer	ISM-DL-COMPUTER
LED light	Page 431~432
Auxiliary objective	Page 433

MAGNIFICATION AND MEASURING ACCURACY (on 13.3" LCD)

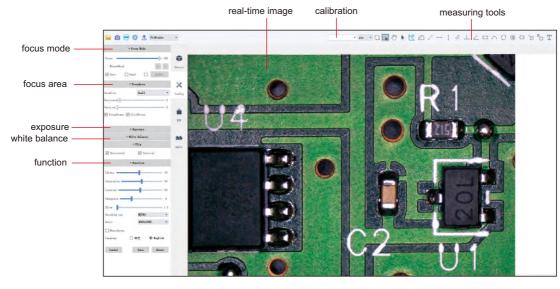
Objective magnification	Image magnification	Measuring accuracy
0.75X	15X	±2mm
1X	20X	±2mm
1.5X	30X	±2mm
2X	40X	±2mm
2.5X	50X	±2mm
3X	60X	±2mm
3.5X	70X	±2mm
4X	80X	±1mm
4.5X	90X	±1mm
5X	100X	±1mm

SOFTWARE FOR LCD (INCLUDED)





SOFTWARE FOR COMPUTER (INCLUDED)



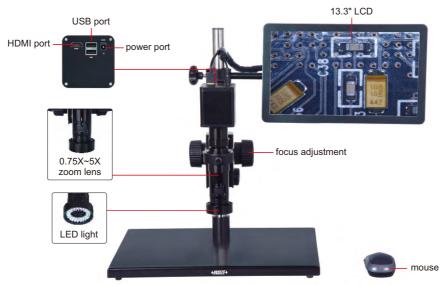


AUTO FOCUS DIGITAL MICROSCOPE (WITH DISPLAY) CODE 5303-AF103



TAKE PICTURES AND VIDEOS







16G USB flash disk (included)

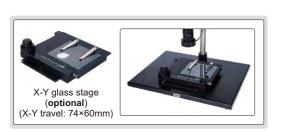


0.5X camera adapte (included)



1X auxiliary objective (included)

- 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)





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



1X camera adapter (optional)



2X auxiliary objective (optional)

SPECIFICATION

01 2011 107111011	
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 pc
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

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

MAGRINION, 1 0000 BIOTAROL ARB VIEW TILLB				
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	

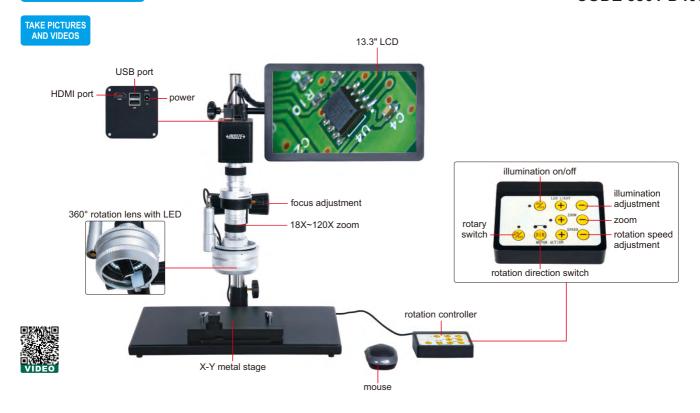
AUTO FOCUS DISTANCE

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

OF HONAL 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 431~432	
Auxiliary objective	page 433	

SUITABLE TO CHECK CONVEX OBJECTS AND WALL OF HOLE

3D MOTORIZED ROTATION MICROSCOPE (WITH DISPLAY) **CODE 5301-D400**

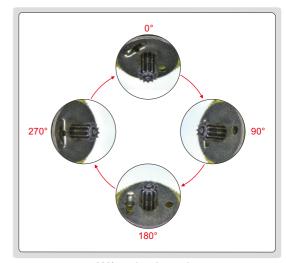


working principle camera mirror mirror workpiece

- 1080P high-definition 3D imageTake 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

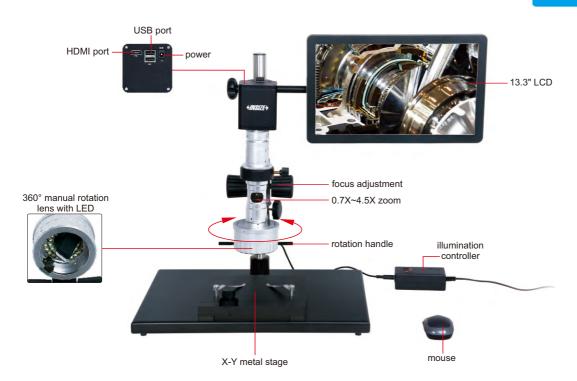
Main unit	1 pc
Rotation controller	1 pc
X-Y metal stage	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
Power adapter	2 pcs

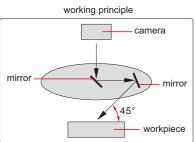


3D MANUAL ROTATION MICROSCOPE (WITH DISPLAY) CODE 5313-S407

SUITABLE TO CHECK CONVEX OBJECTS
AND WALL OF HOLES

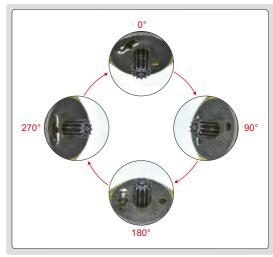
TAKE PICTURES AND VIDEOS





SPECIF	ICATION
--------	----------------

SPECIFICATION		
18X~120X		
2.4×1.5mm~16×9mm		
20mm		
45°		
1/2.8" CMOS		
2M		
1920×1080		
60fps		
HDMI		
220V, 50/60Hz		
570×300×430mm		
10kg		



360° rotation observation

STANDARD DELIVERY

STANDARD DELIVERY		
Main unit	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)





0.5X camera adapter (included)



1X auxiliary objective (included)



calibration plate (included)



16G USB flash disk (included)

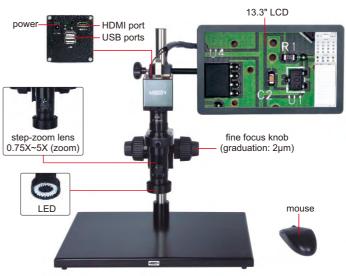


IX camera adapte (optional)

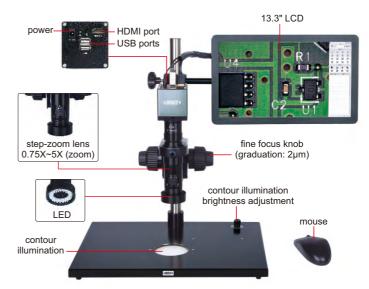


2X auxiliary objective (optional)

- 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

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			



STANDARD DELIVERY

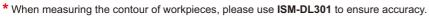
Code	ISM-DL300	ISM-DL301
Main unit	1 pc	1 pc
0.5X camera adapter	1 pc	1 pc
1X auxiliary objective	1 pc	1 pc
Calibration plate	1 pc	1 pc
16G USB flash disk	1 pc	1 pc
White/black plate	1 pc	1 pc
Mouse	1 pc	1 pc
HDMI cable	1 pc	1 pc
Power adapter	2 pcs	3 pcs

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 431~432
Auxiliary objective	page 433

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





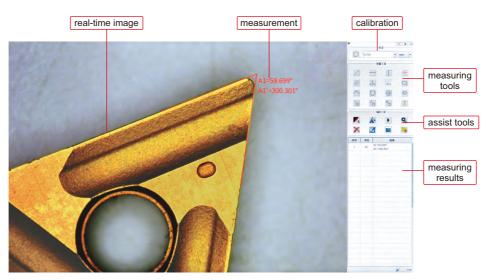
MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary objective	Cuasification	Camera adapter	
Auxiliary objective Specification	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

18

SOFTWARE (INCLUDED)

■ Refer to page 428 for details



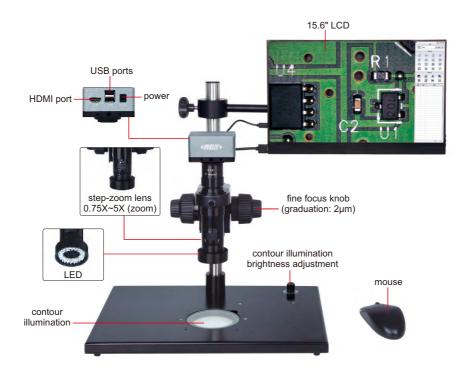


BUILT-IN SOFTWARE WITHOUT COMPUTER



MEASUREMENT

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











(included)



16G USB flash disk (included)

- 4K 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

SPECIFICATION

SPECIFICATION	
Magnification	17.6X~120X
Sensor	1/2.3" CMOS
Pixel	8M
Resolution	3840×2160
Frame rate	4K: 30fps, 1080P: 60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg



0.5X camera adapter (included)



1X camera adapter (optional)



1X auxiliary objective (included)



2X auxiliary objective (optional)



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

· <u></u>	
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

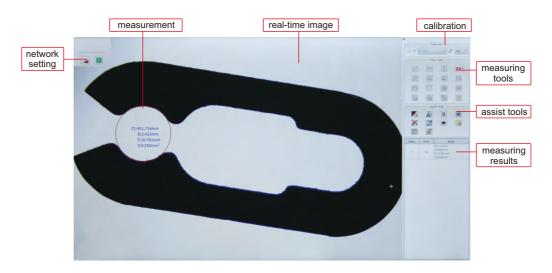
OPTIONAL ACCESSORY

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 431~432
Auxiliary objective	page 433

18

SOFTWARE (INCLUDED)

■ Refer to page 428 for details



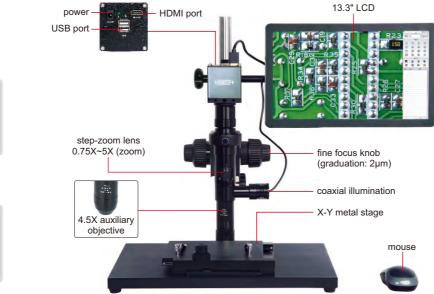
18



OBSERVATION AND MEASURMENT AT HIGH MAGNIFICATION

HIGH MAGNIFICATION MEASURING MICROSCOPE (WITH DISPLAY) **CODE ISM-DL302**

SOFTWARE IS INCLUDED, REFER TO page 428 FOR DETAILS







0.5X camera adapter (included)



1X camera adapter (optional)



calibration plate

(included)

16G USB flash disk (included)

- 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 428 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 431~432

MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	lmage 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

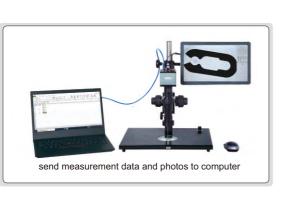
BUILT-IN SOFTWARE WITHOUT COMPUTER

FOCUS STACKING





- 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
- 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



focus on the top focus on the bottom clear image of both top and bottom

focus stacking



1X auxiliary objective (included)



2X auxiliary objective (optional)

SPECIFICATION

OI LOII IOATION	
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



0.5X camera adapter (included)



1X camera adapter (optional)



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 431~432
Auxiliary objective	page 433

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

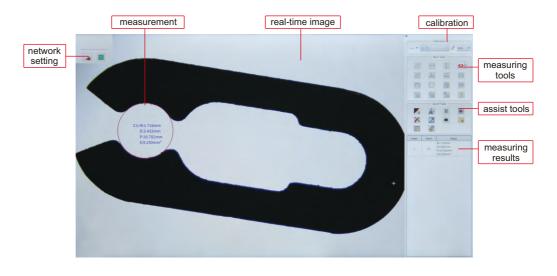


MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary objective	Specification	Camera adapter		
Auxiliary Objective	Specification	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 428 for details



DIGITAL MEASURING MICROSCOPE CODE 5307-ID100A

ELECTRONIC MAGNIFICATION FEEDBACK LENS

BUILT-IN SOFTWARE WITHOUT COMPUTER



- 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



SPECIFICATION

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

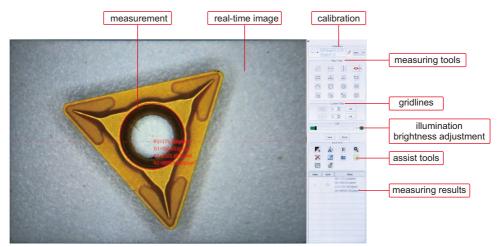
Main unit	1 pc
Calibration plate	1 pc
Power adapter	1 pc
Mouse	1 pc
16G USB flash disk	1 pc

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 428 for details



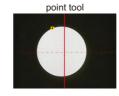
18

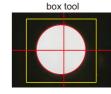
- Included in digital microscopes (ISM-DL300, ISM-DL301, 5310-DL401, ISM-DL302, ISM-DL510, 5307-ID100A)
- Language: Simplified Chinese, Traditional Chinese, English, Korean

Calibration:



Edge-detection:







Measurement tools:

- measure length of line or distance between two points
- measure angle from horizontal line
- measure distance between two parallel lines
- measure distance between point and line
- measure radius, diameter, girth and area of circle with three points
- measure minimum distance between point and circle
- measure minimum distance between line and circle
- measure minimum distance between two circles
- add text

- measure length of line or distance between two points in horizontal direction
- measure angle from vertical line
- measure distance between two parallel lines
- measure radius, length and angle of arc
- measure radius, diameter, girth and area concentric of circles
- measure distance between point and center of circle
- measure distance between line and center of circle
- measure center distance between two circles
- measure radius, diameter, girth and area of circle with two points

- measure length of line or distance between two points in vertical direction
- measure angle of two lines
 - measure distance between multiple parallel lines
- measure girth and area of polygon
- measure length, width, girth and area of rectangle
- measure maximum distance between point and circle
- measure maximum distance between line and circle
- measure maximum distance between two circles
 - cross hair and graduated cross hair

Assist tools:

- manual/automatic point selection
- line width and color settings
- II freeze screen
- camera parameter settings
- layout settings of measurement items
- delete images
- export measurement data to U disk
- take pictures and save
- review pictures
- system settings

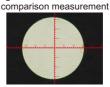
Cross hair:

cross hair



full-screen grid for comparison measurement, adjustable grid number

graduated cross hair for





Output to Excel:

1	Al	A1=59.699° A1=300.301°

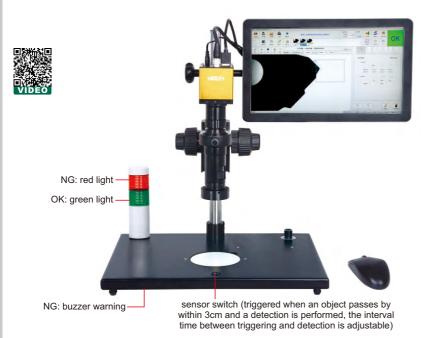
■ Comparison:

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

SMART MICROSCOPE CODE ISM-DL400

AUTOMATICALLY LOCATE WORKPIECES REGARDLESS OF POSITION AND DIRECTION

BUILT-IN SOFTWARE WITHOUT COMPUTER



camera function

- surface defect detection
- character recognition
- dimension measurement
- color detection ■ read QR code
- read barcode
- object counting
- burr detection ■ 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

_	102 Cluster Detection number	Detection time	Detection color	Number of spots	Maximum radi
1	700101 000641 001		白色	O	0.0000mm
2	700101 001151 001		88	0	0.0000mm
3	700101_001202_001		自色	0	0.0000mm
4					
5					
6					
8					
9					
10					
12					
13					

report of each detection is automatically created and saved

SPECIFICATION

3F ECII ICATION	
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
Operation system	Linux 3.10
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg

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
HDMI cable	1 pc
Power adapter	3 pcs

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

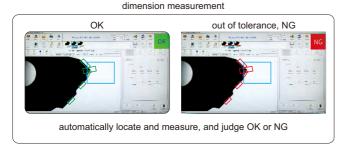
Auxiliary	Specification	Camera adapter		
objective	e Specification	0.5X (included)	1X (optional)	
1X	Magnification	15~100X	30~200X	
(included)	Focus distance	70±2mm	70±2mm	
(oraasa)	View filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm	
2X	Magnification	30~200X	60~400X	
(optional)	Focus distance	29±2mm	29±2mm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

OPTIONAL ACCESSORY

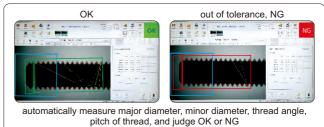
1X camera adapter	ISM-DL-CA1X	
2X auxiliary objective	ISM-DL-OB2X	
LED light	page 431~432	
Auxiliary objective	page 433	

■ APPLICATION EXAMPLES:

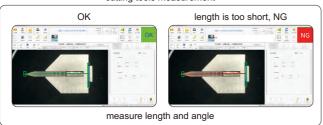








cutting tools measurement



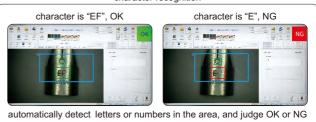
counting







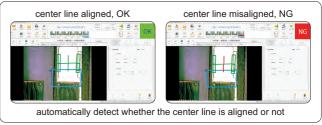
character recognition



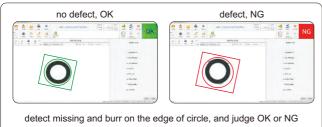
color detection



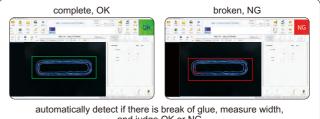
location detection



surface defect detection



glue detection



automatically detect if there is break of glue, measure width, and judge OK or NG



X-Y METAL STAGE CODE ISM-DL-STAGE1

Suitable for digital microscopes 5301-D400,
 5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301,
 ISM-DL302, 5315-S710

SPECIFICATION

5. 20. 10/11/511		
X-Y travel range	100×86mm	
Dimension (L×W×H)	180×180×50mm	
Weight	2.3kg	





LED RING LIGHT CODE ISM-LED-9245R

 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, 5315-S710

SPECIFICATION

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

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

ATTENSION: MUST BE USED WITH LIGHT BRACKET AND LIGHT CONTROLLER



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, 5315-S710

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

ATTENSION: MUST BE USED WITH LIGHT BRACKET AND LIGHT CONTROLLER



SPECIFICATION

18

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

DIGITAL LIGHT CONTROLLER CODE ISM-LED-CTRL

- 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

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



-INSIZE+

BRACKET FOR LIGHTS CODE ISM-LED-BRACKET



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



SPECIFICATION

Size (L×W×H)	260×300×20mm	
Weight	0.7kg	

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





LED AUXILIARY LIGHT CODE ISM-DL-LED

 Suitable for digital microscopes 5301-D400, 5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510, 5315-S710

SPECIFICATION

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





illumination direction and brightness are adjustable

COAXIAL LIGHT CODE ISM-DL-COAXIAL

 Suitable for digital microscopes 5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510, 5315-S710

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





for smooth surfaces and small holes, brightness is adjustable

AUXILIARY OBJECTIVES



0.3X auxiliary objective ISM-DL-OB03X



0.5X auxiliary objective ISM-DL-OB05X



0.75X auxiliary objective 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, 5315-S710

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD (5303-AF103, 5315-S710)

Auxiliary objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
	Magnification	6~37X	12~74X
0.3X (optional)	Focus distance	120~310mm	120~310mm
(Optional)	View field	52×30~8×5mm	26×15~4×2.5mm
A 574	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
44	Magnification	20~123X	40~246X
1X (included)	Focus distance	48~84mm	48~84mm
(Included)	View field	15×8~2.5×1.5mm	7.5×4~1.3×0.7mm
4.57	Magnification	30~184X	60~368X
1.5X (optional)	Focus distance	36~63mm	36~63mm
(optional)	View field	10×6~1.7×1mm	5×3~0.9×0.5mm
2X (optional)	Magnification	40~246X	80~492X
	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	
		0.5X (included)	1X (optional)
	Magnification	5~34X	10~68X
0.3X*	Focus distance	287±2mm	287±2mm
(optional)	View field	42×26~6.5×4.5mm	21×13~3.3×2.3mm
A*	Magnification	9~56X	18~112X
0.5X ^{**} (optional)	Focus distance	166±2mm	166±2mm
(орионаі)	View field	25.6×16.8~5×3.5mm	12.8×8.4~2×1.3mm
A*	Magnification	13~84X	26~168X
0.75X**	Focus distance	105±2mm	105±2mm
(optional)	View field	17×10.5~2.6×1.7mm	8.5×5.3~1.3×0.9mm
4٧	Magnification	15~100X	30~200X
1X (included)	Focus distance	70±2mm	70±2mm
(Illeladea)	View field	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
4.57	Magnification	26~168X	52~336X
1.5X (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
2X (optional)	Magnification	30~200X	60~400X
	Focus distance	29±2mm	29±2mm
	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

4.INSIZE+

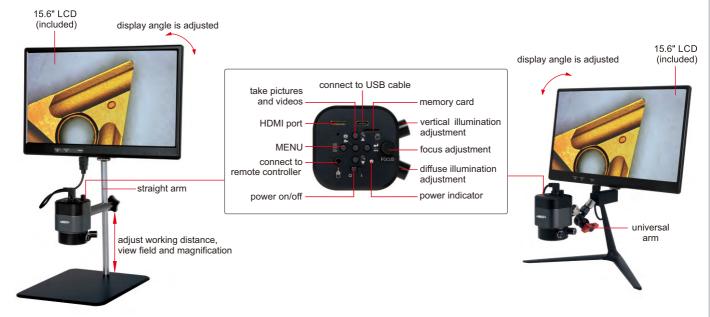
MEASUREMENT

TAKE PICTURES AND VIDEOS



DIGITAL MICROSCOPES

5309-DM51

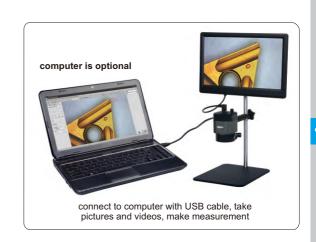


- Independent control of vertical illumination and diffuse illumination
- Back focus adjustment extends working distance
- Take pictures and videos, save to memory card

SPECIFICATION

5309-DM50

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	45~169mm	42~195mm
Magnification	9~41X 7.6~49.4X	
View field	7.6×4~38.5×21.7mm	7×4~45×25mm
Power supply	DC12V 3A	



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

(dase computers, optional)		
Image magnification	View field	Measuring accuracy
9.0X	38.5×21.7mm	±0.02mm
13.0X	26.6×15.0mm	±0.02mm
17.0X	20.5×11.7mm	±0.02mm
22.0X	16.0×9.0mm	±0.02mm
28.5X	11.9×6.3mm	±0.02mm
34.0X	9.8×5.5mm	±0.01mm
41.0X	7.6×4.1mm	±0.01mm

STANDARD DELIVERY

Main unit	1 pc
Memory card and holder	1 pc
Plastic calibration rule (graduation 1mm)	1 pc
White/black plate	1 pc
Remote controller	1 pc
USB cable	1 pc
Measuring software	1 pc
Power adapter	1 pc





remote controller (included)



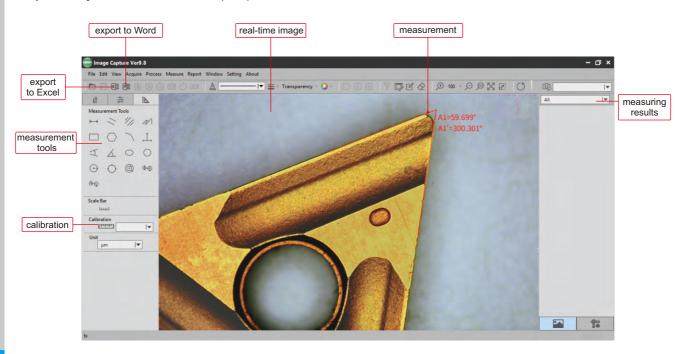
white/black plate (included)



plastic calibration rule (graduation 1mm, included)

SOFTWARE FOR COMPUTER

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



18 Measurement tools:

- straight line distance
- rectangular measurement
- four-point perspective measurement
- circle measurement by radius
- center distance measurement by 3-point
- parallel lines distance measurement
- polygon measurement
- angle measurement
- circle measurement by 3-point
- centre distance between parallel lines measurement
- arc measurement
- ellipse measurement
- o torus measurement
- polyline line measurement
 - three-vertical-line measurement
- round measurement
 - center distance measurement by radius

■ Data export to Word or Excel:













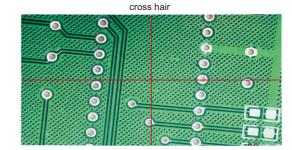
MINI DIGITAL MICROSCOPE (ECONOMIC TYPE) CODE 5311-M710



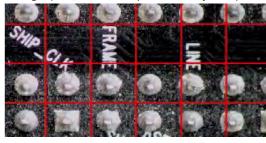


SPECIFICATION

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	



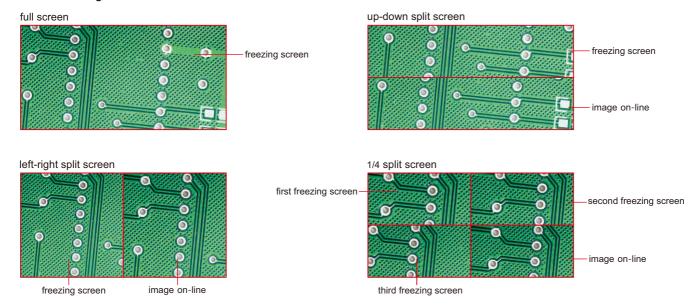
grid (color, line width and positions are adjustable)



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

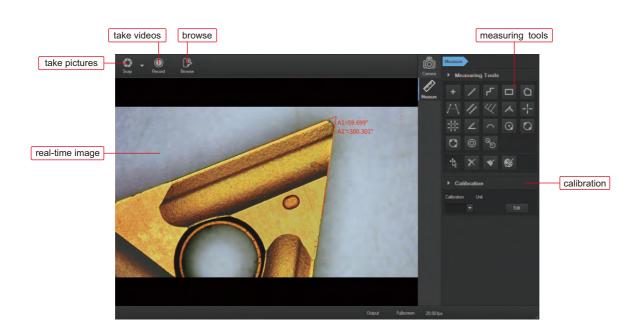
Screen freezing:



SOFTWARE FOR COMPUTER (included)

- Language: Chinese (Simplified), English
- Operation system: Windows 7/8/8.1/10 (64bit)
- Port: USB2.0 or above
- Measuring accuracy: 0.02mm
 - point counting straight line length continuous line length area of a rectangle area of a polygon distance between 2 lines distance between parallel lines distance between line and first parallel line point-line distance double cross line cross line angle arc radius of a circle radius of a 2-point circle radius of a 3-point circle center distance of 2 circles center distance of concentric circle

18



software CD



DIGITAL MEASURING MICROSCOPES



- 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:

\ \	measure length of line or
	distance between two points
	alotarioo botti tiilo poirito

measure area of rectangle

measure distance between two circles

measure distance between two parallel lines

measure angle with two lines

measure distance between point and line

measure radius, length and angle of arc

add number with circle measure length

of continuous line measure angle with three points

measure radius, girth and area of circle

add text

Edge detection measurement tools:

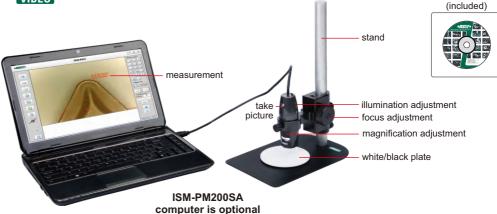
detect two parallel lines automatically and calculate distance

detect circle automatically, and calculate radius, girth and area

detect arc automatically, and calculate radius, angle and arc length

detect two lines automatically, and calculate angle

detect line automatically, and calculate length



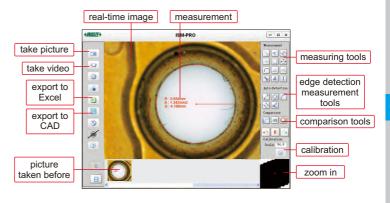
universal stand (included in ISM-PM200SB)





MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

MACHINICATION, 1 0000 BIOTANOL, VIEW 1 IEEB AND ACCONACT			
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





■ Data export to CAD or Excel:





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

USB/WiFi switch take picture illumination adjustment magnification adjustment focus support















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

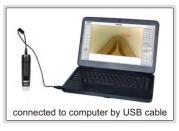




STANDARD DELIVERY

5 17 11 15 7 11 15 5 E E I I I I	
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





OPTIONAL ACCESSORY

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

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

1 Software ISM-PAD (for iPad by WiFi)



18

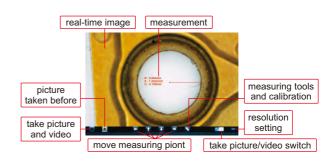
measure length of line or distance between two points



measure radius, girth and area of circle with three points



measure angle



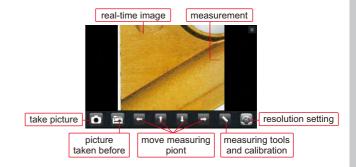


2 Software ISM-APK (for Android devices by WiFi)

measure length of line or distance between two points

measure radius, girth and area of circle with three points

measure angle



3 Software ISM-WF Partner (for computer by WiFi)

measure length of line or distance between two points

measure area of polygon

measure angle with three points

measure radius, girth and area of circle with center point

measure length of continuous line

measure radius, girth and area of circle with three points

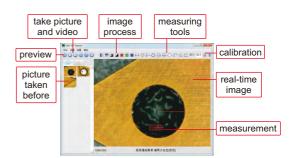


measure radius, girth and area of circle with two points

measure distance between point and line

measure radius, length and angle of arc

measure area of rectangle



4 Software ISM-PRO (for computer by USB cable)

Measuring tools:

measure length of line or distance between two points

measure length of continuous line

measure radius, length and angle of arc

measure distance between two circles

measure distance between two parallel lines

measure radius, girth and area of circle

measure distance between point and line

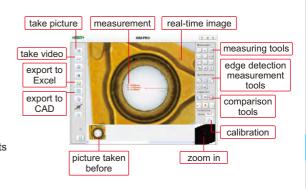
measure area of rectangle

measure angle with two lines

add number with circle

measure angle with three points

A add text



■ Edge detection measurement tools:

detect line automatically, and calculate length

detect arc automatically, and calculate radius, angle and arc length

detect circle automatically, and calculate radius, girth and area

detect two lines automatically, and calculate angle



detect two parallel lines automatically and calculate distance

■ Comparison tools:

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







■ Data export to CAD or Excel:







INDUSTRIAL MICROSCOPES





- Infinite optical system, polarization observation, dark field observation
- Kohler illumination system provides uniform illumination field
- Objective 50X is spring type

SPECIFICATION

Code	5101-M500 (bright field objectives)				5101-M500F	5101-M500BD (bright & dark field objectives)			
Illumination	6V/30W halogen lamp, brightness is adjustable				12V/50W ha	12V/50W halogen lamp, brightness is adjustable			
Objective	bright field o	bjectives			bright & dark	c field objective	es		
(infinite plan achromatic)	5X	10X	20X	50X	5X	10X	20X	50X	
Working distance	26.1mm	20.2mm	8.80mm	3.68mm	9.70mm	9.30mm	7.23mm	2.50mm	
Numerical aperture	0.12	0.25	0.40	0.70	0.12	0.25	0.40	0.70	
Magnification	50X~500X	50X~500X							
Eyepiece (wide field)	10X (view fie	10X (view field: Ø22mm)							
	double layer	double layer							
Stage	size: 160×14	size: 160×140mm							
	travel: 35x30	travel: 35x30mm							
Pupil distance	53~75mm								
Diopter adjustment	±5 diopter (d	±5 diopter (one eyepiece)							
Power supply	220V, 50/60Hz								
Dimension (L×W×H)	415×345×38	415×345×380mm							
Weight	14kg								

STANDARD DELIVERY

Main unit	1pc
Anti-dust cover	1pc

Bright & dark field objective	PL40X	5101-M-BD40X		
	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		

^{*}Digital camera must be used with camera adapter



INDUSTRIAL INSPECTION MICROSCOPE (LARGE STAGE) CODE 5104-M700



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

SPECIFICATION

OI LOII IOATION							
Magnification	40X~400X	40X~400X					
Eyepiece (wide field)	10X (view field: Ø	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	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 ey	±5 diopter (two eyepieces)					
Power supply	220V, 50/60Hz	220V, 50/60Hz					
Dimension (L×W×H)	647×268×376mm	647×268×376mm					
Weight	12kg						

STANDARD DELIVERY

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

Bright field objective	2.5X plan achromatic objective (focus distance: 11.7mm)	5104-M700-OB2.5X	
	5X plan achromatic objective (focus distance: 15.5mm)	5104-M700-OB5X	
Bright field 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	

^{*}Digital camera must be used with camera adapter

METALLURGICAL MICROSCOPES





5102-M600

- Infinite optical system, observation in reflected or transmitted illumination, polarizing observation

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





blue filter (included)

frosted glass filter (included)

SPECIFICATION

Code	5102-M600 (bright field objectives)				5102-M600BD (bright & dark field objectives)			
Illumination	6V/30W (transmitted) 6V/30W (reflected)			12V/30W (transmitted) 12V/50W (reflected)			/ (reflected)	
Objective	bright field o	ojectives			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	double layer						
Stage	size: 210×14	size: 210×140mm						
	travel: 75x50	travel: 75x50mm						
Pupil distance	53~75mm	53~75mm						
Diopter adjustment	±5 diopter (one eyepiece)							
Power supply	220V, 50/60Hz							
Dimension (L×W×H)	456×260×49	456×260×498mm						
Weight	11kg							

STANDARD DELIVERY

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

	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

^{*}Digital camera must be used with camera adapter

METALLURGICAL MICROSCOPES



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

SPECIFICATION

SPECIFICATION					T =			
Code	5103-M1000 (bright field objectives)				5103-M1000BD (bright & dark field objectives)			
Illumination	6V/30W halogen lamp, brightness is adjustable				12V/50W ha	llogen lamp, b	rightness is ad	justable
Objective	bright field o	bjectives			bright & darl	k field objective	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~1000X				50X~500X			
Eyepiece (wide field)	10X (view fie	10X (view field: Ø22mm)						
	double layer	double layer						
Stage	size: 242×20	size: 242×200mm						
	travel: 30x30)mm						
Pupil distance	53~75mm							
Diopter adjustment	±5 diopter (d	±5 diopter (one eyepiece)						
Power supply	220V, 50/60	220V, 50/60Hz						
Dimension (L×W×H)	614×250×39	614×250×394mm						
Weight	13kg							

STANDARD DELIVERY

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

	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/c	liv.)	5103-M-EPD10X
	PL5X	5101-M-OB5X
Bright field objective (for 5103-M1000)	PL40X	5101-M-OB40X
	PL60X	5101-M-OB60X
	PL80X	5101-M-OB80X
Digital camera		ISM-CM63
Camera adapter *		5101-M-ADAPTER

^{*}Digital camera must be used with camera adapter



ZOOM STEREO MICROSCOPE (PROFESSIONAL TYPE) CODE 5107-S70T









- 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

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)



white/black plate (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

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



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

PARALLEL LIGHT STEREO MICROSCOPE **CODE ISM-ZS200**

coaxial illumination (optional)







- 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

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	





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

OI HONAL ACCEOU	OICI	
	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 objective	e	ISM-ZS30-ADAPTER
Iris diaphragm		ISM-ZS200-IRD
Optical path splitter		ISM-ZS200-OBS
Coaxial illumination		ISM-ZS200-COAXIAL
Digital camera ***		ISM-CM20, ISM-CM63

^{*0.5}X achromatic objective must be used with sleeve ISM-ZS30-ADAPTER

^{**}Digital camera must be used with optical path splitter



ZOOM STEREO MICROSCOPES (ADVANCED TYPE)











LED ring light (optional)

ISM-ZS100T

SPECIFICATION

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

OTANDAND DELIVERY	
Main unit	1 pc
Digital camera adapter 0.55X for ISM-ZS100T	1 pc
WF10X eyepiece	2 pcs
Ø100mm glass plate	1 pc
Ø100mm white/black plate	1 pc
Anti-dust cover	1 pc

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 light		ISM-ZS-RL	
Digital camera adapter 1X for ISM-ZS100T		ISM-ZS100-DA	
Digital camera for ISM-ZS100T		ISM-CM20, ISM-CM63, ISM-ZS70-S	

^{*0.5}X auxiliary objective must be used with sleeve ISM-ZS30-ADAPTER



ZOOM STEREO MICROSCOPES (STANDARD TYPE)











ISM-ZS50

SPECIFICATION

or Edit Idanion		
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 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)	290×260×480mm	
Weight	4.9kg	

STANDARD DELIVERY

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

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

^{*0.5}X auxiliary objective must be used with ISM-ZS30-ADAPTER

^{**}Digital camera must be used with camera adapter 0.5X



ZOOM STEREO MICROSCOPES (WITH UNIVERSAL STAND)





5106-M50

SPECIFICATION

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

OF HORAL ACCESSORY			
Auxiliary objective	0.5X	ISM-ZS50-OB05X*	
Auxiliary objective	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	

^{*0.5}X auxiliary objective must be used with ISM-ZS30-ADAPTER

^{**}Digital camera must be used with camera adapter 0.5X



ISM-AD-0D75



OPTIONAL ACCESSORY

Camera adapter 0.75X

ZOOM STEREO MICROSCOPE (BASIC TYPE) CÒDE ISM-ZS3Ó



SPECIFICATION

Optical tube	binocular	
Eyepiece (wide field)	10X (view field: Ø20mm)	
Objective	1X~4.5X (zoom)	
Zoom ratio	1:4.5	
Pupil distance	55~75mm (adjustable)	
Diopter adjustment	±5 diopter (two eyepieces)	
Working distance of objective	97mm	
Max. workpiece height 60mm		
Illumination adjustable reflected a transmitted LED light		
Power supply	110/220V, 50/60HZ	
Dimension (L×W×H)	260×190×400mm	
Weight	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

	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

^{*0.5}X, 0.63X and 0.75X auxiliary objectives must be used with ISM-ZS30-ADAPTER

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

SPECIFICATION

0. 200701.	
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

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



LED ring light (optional)

^{**}Digital camera must be used with camera adapter 0.75X



POLARIZING MICROSCOPE CODE ISM-POL1000



- Widely used in geology, mineralogy,
- fossil fuel exploration

 Single polarization, othorgonal polarization or conoscopic observation are available



SPECIFICATION

Magnification	40X~600X	40X~600X			
Eyepiece	10X (view field: Ø20	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	53~75mm			
Diopter adjustment	±5 diopter (one eyepiece)				
Illumination	12V/50W halogen lamp, brightness is adjustable (reflected illumination)				
illullillation	12V/20W halogen lamp, brightness is adjustable (transmitted illumination)				
Power supply	110/220V, 50/60HZ				
Dimension (L×W×H)	614×250×394mm	614×250×394mm			
Weight	13kg	13kg			

STANDARD DELIVERY

STANDARD DELIVERT	
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

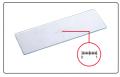
Objective for reflected system	PL20X	ISM-POL1000-OBR20X
	PL40X	ISM-POL1000-OBR40X
	PL60X	ISM-POL1000-OBR60X
	PL100X	ISM-POL1000-OBR100X
Objective for transmitted system	PL100X	ISM-POL1000-OBT100X
Specimen presser		ISM-POL1000-SP



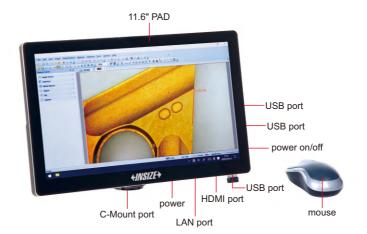
ATTENTION: CAMERA CONNECTOR AND ADAPTER ARE NEEDED ACCORDING TO MICROSCOPES

DIGITAL CAMERA FOR MICROSCOPES (WITH PAD) CODE ISM-ZS70-S

MEASUREMENT, TAKE PICTURES AND VIDEOS

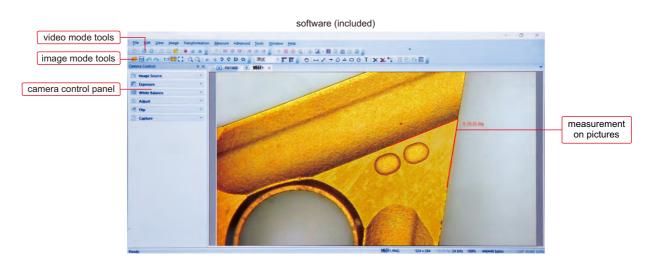


glass calibration rule (included, graduation 0.1mm)





- Windows 10 operation system
- 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



Measuring tools

measure line

measure angle

measure meander line

measure rectangle

arrow mark

measure circle

measure polygon

text mark

calibration



CDECIFIC ATION

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

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

DIGITAL CAMERA FOR MICROSCOPES CODE ISM-CM63

ATTENTION: ADAPTERS ARE NEEDED ACCORDING TO MICROSCOPES



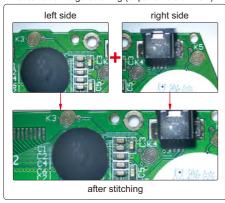
- To be used with computers
- Sony Exmor back-illuminated CMOS sensor
- USB3.0 transmission
- Automatic exposure, gain adjustment, white balance, chrominance adjustment, saturation adjustment, gamma correction, luminance adjustment, contrast adjustment



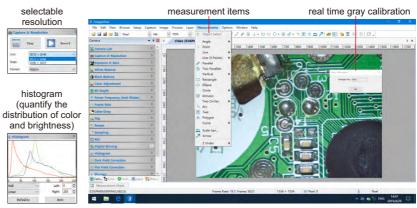




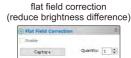
automatic image stitching (expand field of view)













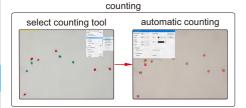
dark field correction

Green: 0

Star: 0

Elack balance Defualts

The software can control image completely, including measurement, image stitching, extend focus depth, image gray processing, RGB histogram observation, image color sampling, 3D plot (3D representation of image intensity), image exposure, white balance, black balance, image bit depth, flat field correction and dark field correction, etc.



Measuring tools:

measure length of line or distance between two points

measure distance between two parallel lines

measure angle

measure radius, girth and area of circle

measure axis lengths, girth and area of ellipse

calibration

measure rectangle

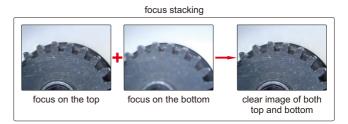
measure width and diameter of ring

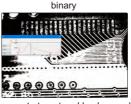
measure diameter, length, perimeter angle of arc

measure area of polygon

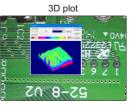
measure center distance between two circles

measure length of open curve





separate target and background



visualize the distribution of image brightness and color

To be continued

18



Continued from previous page

SPECIFICATION

Sensor (back-up)	1/1.8" CMOS
Resolution	3072×2048
Pixel	6.3M
Single pixel size	2.4×2.4µm
Spectral range	380-650nm (with infrared cut filter)
Frame rate	30fps
Sampling average	1×1
Exposure time	0.1ms~15s
Power supply	USB port
Weight	400g

STANDAER DELIVERY

Camera (USB cable included)	1 pc
Software	1 pc

COMPUTER REQUIREMENT

Operation system	Windows/7/8/10
CPU	Intel Core 2 2.8Hz or above
Memery	2GB or above
USB port	USB3.0 (recommand) or USB2.0
Display	17" or above

OPTIONAL ACCESSORY

Adapter 0.75X ISM-AD-0D75	
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SMART CAMERA CODE ISM-MV10



- Built-in software, operated by mouse.
- Automatically calculate, store the test results and export to Excel.
- Camera with PLC control input and output interface, can be integrated with automation equipment.
- Functions: presence or absence of objects, position tilt correction, object counting, color detection, stain detection, dimension measurement, position guide, etc.

SOFTWARE

presence or absence of objects



select the area and specify the target, the camera will automatically detect the presence or absence of the target.

automatic counting



select the area and specify the target, the camera will automatically calculate the number of targets.

SPECIFICATION

SPECIFICATION		
Chip structure	FPGA+ARM	
Opreation system	Linux 3.10	
Kernel structure	dual-core Cortex-A9	
Frequency	1GHZ	
I/O port	3 sets of input and output (can be connected to photoelectric switch, wire switch, PLC, etc.)	
Working temperature	-10~70°C	
Sensor	1/2" CMOS	
Single pixel size	3.75×3.75µm	
Resolution	1920×1080	
Frame rate	60fps	
Video output	HDMI port	
Lens connection	standard C port	

dimension measurement



measuring angle, distance, radius, center distance, etc.

STANDAER DELIVERY

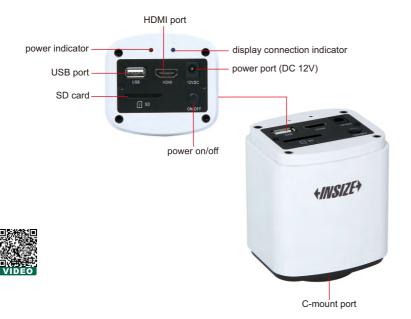
Camera (with HDMI cable)	1 pc
Software	1 pc



DIGITAL CAMERA FOR MICROSCOPES CODE ISM-CM20

ATTENTION: ADAPTERS ARE NEEDED ACCORDING TO MICROSCOPES

FOCUS STACKING AUTOMATIC IMAGE STITCHING





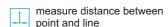
- application

- 1080P high-definition image
- Can be connected with displays or computers
- Built-in simple measuring software for displays, without computer
- Professional measuring software for computers is included
- For bright field, dark field or fluorescent field
- Automatic exposure, white balance, gain adjustment, gamma correction, brightness contrast adjustment, saturation adjustment, chroma sharpness adjustment
- Focus stacking, automatic image stitching

SIMPLE MEASURING SOFTWARE (BUILT-IN, FOR DISPLAYS)

Measuring tools:

measure length of line or distance between two points



measure rectangle

@ measure concentric circles

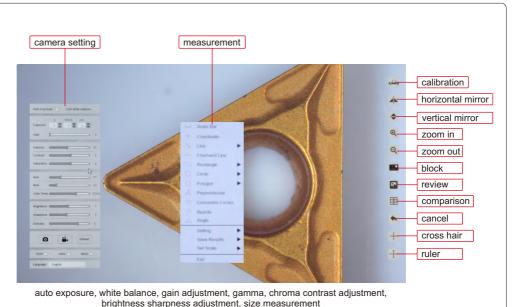
measure circle

measure curve

measure polygon

measure center distance of two circles

/ measure angle of two lines



To be continued

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Continued from previous page

PROFESSIONAL MEASURING SOFTWARE (INCLUDED, FOR COMPUTERS)

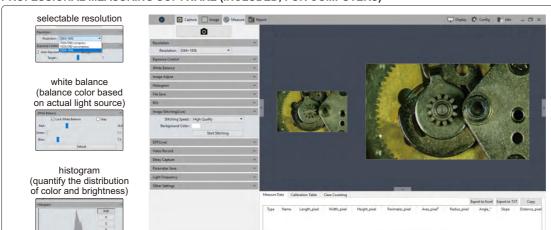


image coloring, fluorescence synthesis, binary, image smoothing, color filter/color extraction/color inversion, delay capture, focus stacking, automatic image stitching, metrics flow, manual counting, dynamic and static measurement, layered measurement, report generation and printing, delay record, flat field correction, image adjustment, histogram.



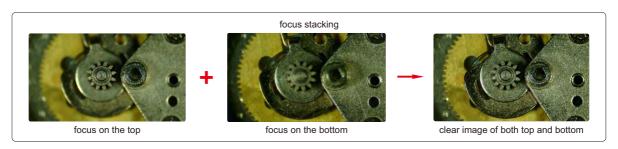


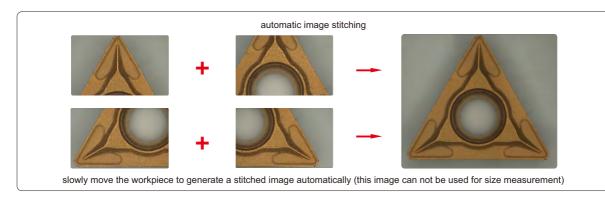
metrics flow (create templates, set tolerances and build metrics flow)



manual counting (class counting)







SPECIFICATION

Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	30fps
Power supply	power adapter
Output	HDMI/USB
Lens connection	C-mount

COMPUTER (optional) REQUIREMENT

The state of the s		
Operation system	Windows 7/8/10 (64 bit)	
CPU	Intel Core i5 or above	
Memory	8GB or above	
USB port	USB 3.0	

DISPLAY (optional) REQUIREMENT

Size	13" or above	
Resolution	1080P or above	
HDMI port	TYPE A	

STANDARD DELIVERY

Main unit	1 pc
16G memory card and holder	1 pc
Mouse	1 pc
HDMI cable	1 pc
USB cable	1 pc
Power supply	1 pc

Adapter 0.5X	ISM-MAS-ADAPTER
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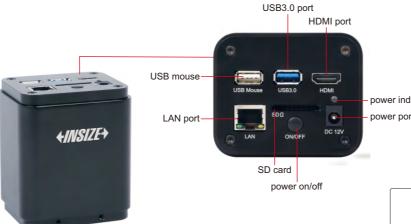
+INSIZE-

WIFI 4K CAMERA FOR MICROSCOPES **CODE ISM-MP8B**

WIRELESS AD-HOC NETWORK

AUTOMATIC IMAGE STITCHING

FOCUS STACKING





- 4K high-definition image
- Can be connected with displays or computers
 Built-in simple measuring software for display, without computer
- Professional measuring software for computers is included

C-mount port

- 4K HDMI/LAN/USB multiple video outputs
- 4K/1080P automatically switched by display resolution
 Focus stacking, automatic image stitching
- Wireless network or wired network





application





SPECIFICATION

3F LOII ICATION	
Sensor	1/1.2" CMOS
Pixel	8M
Resolution	3840×2160, 1920×1080
Single pixel	2.9×2.9μm
Frame rate	60fps@3840×2160 (HDMI) 30fps@3840×2160 (LAN) 30fps@3840×2160 (USB)
Binning	1×1
Exposure	0.04~2000ms
Output	HDMI/USB/LAN
Lens connection	C-mount
Power supply	DC 12V 1A
Dimension (L×W×H)	255×170×90mm
Weight	2kg

CONNECTION

HDMI	comply with HDMI2.0 standard 4K/1080P automatically switched by display resolution
LAN	H264 encoded video bandwidth adjustment in real time DHCP configuration or manual configuration unicast/multicast configuration
WLAN	connecting 5G WLAN adapter (USB3.0 interface) in AP/STA mode
USB3.0	connecting USB3.0 port of PC for video transfer MJPEG format video

To be continued



Continued from previous page

STANDARD DELIVERY

Main unit	1 pc
16G SD card	1 pc
USB mouse	1 pc
HDMI2.0 cable	1 pc
USB3.0 cable	1 pc
USB wlan adapter	1 pc
Wlan cable	1 pc
Glass calibration ruler	1 pc
Calibration plate	1 pc
Software	1 pc
Power adapter	1 pc

OPTIONAL ACCESSORY

16G USB flash disk		IS-USBDISK-16G	
Adjustable lens adapter	Ø23.2mm eyepiece tube	ISM-MP-2A075	
Adjustable lells adaptel	Ø31.75mm eyepiece tube	ISM-MP-3A075	
Fixed lens adapter	Ø23.2mm eyepiece tube	ISM-MP-2F075	
	Ø31.75mm eyepiece tube	ISM-MP-3F075	
Adapter ring for Ø30.0mm eyepiece tube		ISM-MP-300R	
Adapter ring for Ø30.5mm eyepiece tube		ISM-MP-305R	

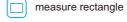
COMPUTER

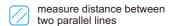
Operation system	Windows/7/8/10	
CPU	Intel Core 2 2.8Hz	
Memory	2GB	
USB port	USB3.0 or USB2.0 port	
Display	17"	

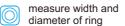
PROFESSIONAL MEASURING SOFTWARE (INCLUDED, FOR COMPUTERS)

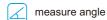
Measuring tools:

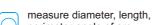
measure length of line or distance between two points

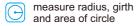


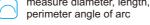


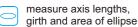




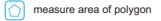








calibration



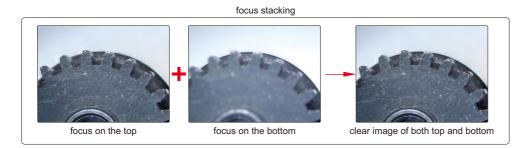


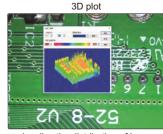
measure center distance between two circles



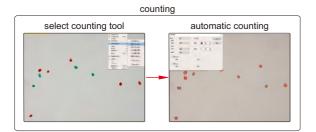
measure length of open curve

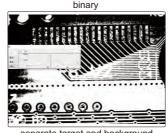
automatic image stitching (expand field of view) right side left side 可独版 after stitching





visualize the distribution of image brightness and color





separate target and background

METALLURGICAL ANALYSIS SOFTWARE AND CAMERA CODE ISM-MAS100

- More than 100 standards (ISO, ASTM, JIS, etc.)
- For metallurgical microscopes
- The camera can be inserted into the eyepiece tube or camera connector of microscopes
- Metallurgical analysis software is included, which can make comparative analysis, measurement and evaluation of various materials



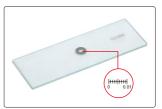






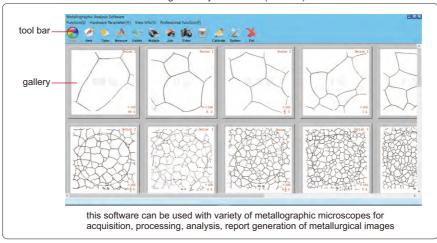


software CD (included)

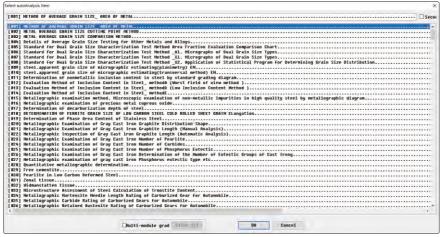


glass calibration rule (included, graduation 0.01mm)

metallurgical analysis software (included)



metallurgical module list



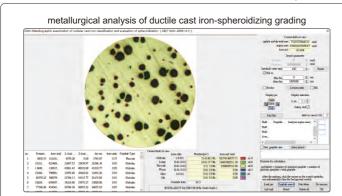
To be continued

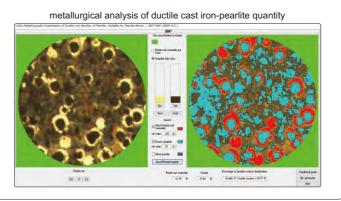
18

4-INSIZE+

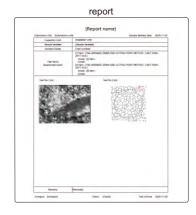
Continued from previous page

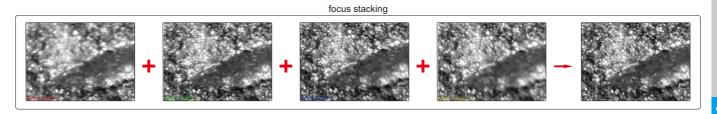
examples of metallurgical analysis

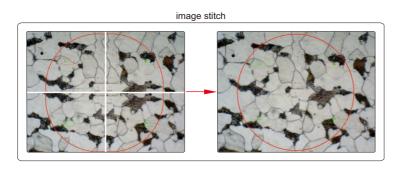


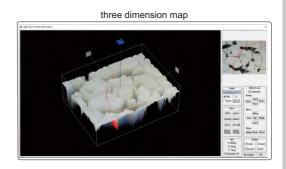


dimension measurement | District | District









SPECIFICATION

Sensor	1/2.8" CMOS
Pixel	3.1M
Resolution	2048×1536
Frame rate	10fps
Exposure	manual or automatic, adjustable exposure time
Power supply	USB port
Weight	400g

STANDARD DELIVERY

Camera (USB cable included)	1 pc
Software	1 pc
Glass calibration rule (graduation 0.01mm)	1 pc



CAMERA ADAPTERS

- Ø23.2/30mm eyepiece adapter is included
- Suitable for digital cameras ISM-CM20, ISM-CM63, ISM-ZS70-S



0.5X camera adapter (fixed focus distance) ISM-AD-0D5



0.75X camera adapter (fixed focus distance) ISM-AD-0D75



Ø23.2/30mm eyepiece adapter (included)



0.5X camera adapter (adjustable focus distance) ISM-AD-A0D5



0.75X camera adapter (adjustable focus distance) ISM-AD-A0D75



SPECIFICATION

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Code	ISM-AD-0D5	ISM-AD-A0D5*	ISM-AD-0D75	ISM-AD-A0D75
Type	fixed focus distance	adjustable focus distance	fixed focus distance	adjustable focus distance
Magnification	0.5X	0.41X~0.58X	0.75X	0.64X~0.86X

 $^{{\}ensuremath{^{\star}}}$ There may be shadows on the edge of image when ISM-AD-A0D5 is used

PORTABLE MEASURING MICROSCOPES



ISM-PM100

SPECIFICATION

Code	ISM-PM20	ISM-PM40	ISM-PM50	ISM-PM100
Total magnification	20X	40X	50X	100X
Eyepiece	10X with graduation	10X with graduation	10X with graduation	10X with graduation
Objective (achromatic)	2X (numerical aperture: 0.05)	4X (numerical aperture: 0.1)	5X (numerical aperture: 0.12)	10X (numerical aperture: 0.25)
Working distance	17.2mm	18mm	17.6mm	7mm
Graduation	0.05mm	0.025mm	0.02mm	0.01mm
Viewing field	Ø9mm	Ø4.5mm	Ø3.6mm	Ø1.8mm
Focus range	30mm			
Illumination	LED light			
Diameter of base	Ø63mm			
Height	210mm			
Weight	650g			

STANDARD DELIVERY

+ · · · · · · · · · · · · · · · · · · ·		
Main unit	1 pc	
Pen light	1 pc	
Battery (AAA)	2 pcs	