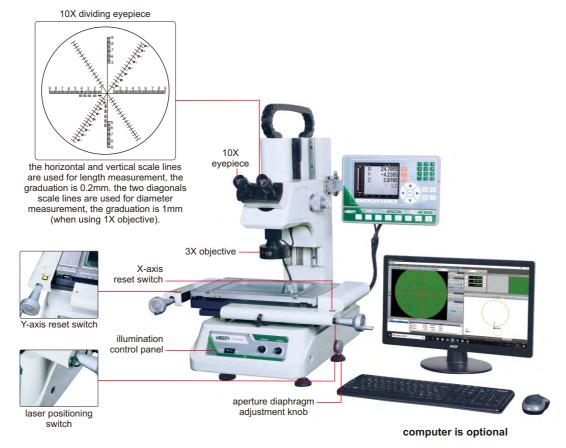


INSPECTION

TOOLMAKER MICROSCOPES





ISD-VMM215

SPECIFICATION

	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	ge size	210×160mm	260×160mm	306×196mm	350×250mm	
Resolutio	n of X/Y/Z axis	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		1/3" color CCD, 0.3M pix	1/3" color CCD, 0.3M pixel			
Optical magnification		30X (with 3X objective)				
Image magnification		114X (on 19" monitor)				
Illumination		surface and contour with adjustable LED				
Max. weig	jht of workpiece	25kg				
Power supply		100V~240V, 50/60Hz				
Operation system		Windows 7/8/10				
Drive method 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

0 17 11 12 7 11 12 2 2 2 2 1 1 1 1 1	
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

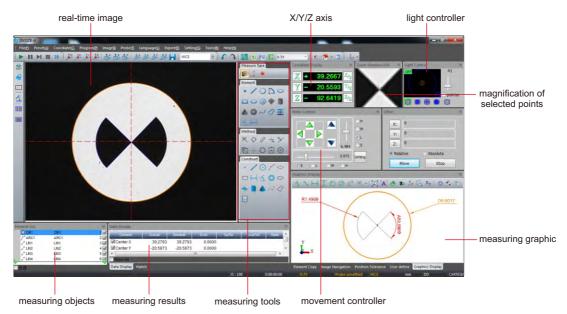
OPTIONAL ACCESSORY

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)	

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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

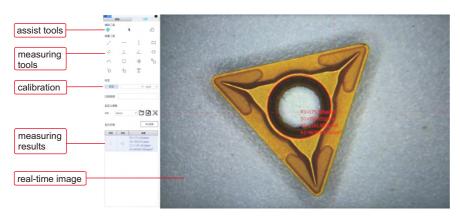
1~14X optical zoom adjustment

SPECIFICATION

Manual Care Care	4 0V 07 EV (00! TV)	
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	4.5~27.5X	24×14~161×90mm	0.02mm
150mm	50mm 3~21X 30×17~240×128m		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

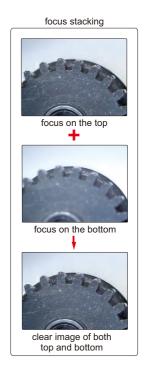
DUAL SCREEN

FOCUS STACKING











- 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



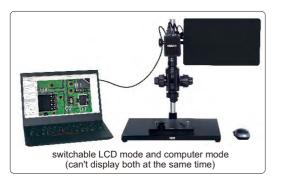
calibration plate (included)



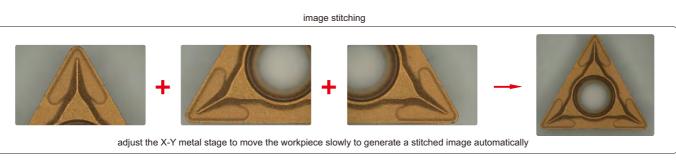
1X camera adapter (optional)



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	

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	

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

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

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

Specification	Camera a	dapter
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

OPTIONAL ACCESSORY

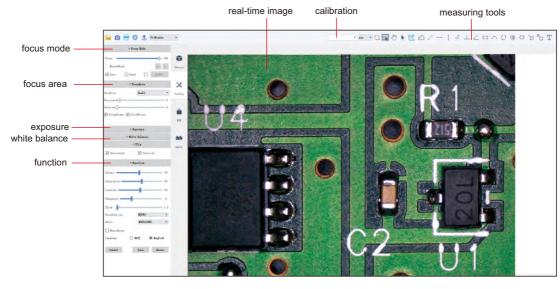
1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
Computer	ISM-DL-COMPUTER
LED light	Page 431~432
Auxiliary objective	Page 433

SOFTWARE FOR LCD (INCLUDED)





SOFTWARE FOR COMPUTER (INCLUDED)



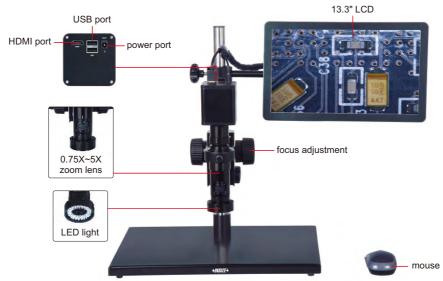


AUTO FOCUS DIGITAL MICROSCOPE (WITH DISPLAY) CODE 5303-AF103



TAKE PICTURES AND VIDEOS







16G USB flash disk (included)

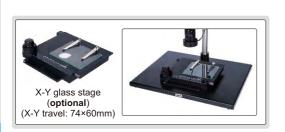


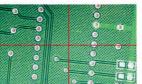
0.5X camera adapte (included)



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

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

10.1 10.1 10.1 10.1 11				
Auxiliary Specification	Specification	Camera adapter		
	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

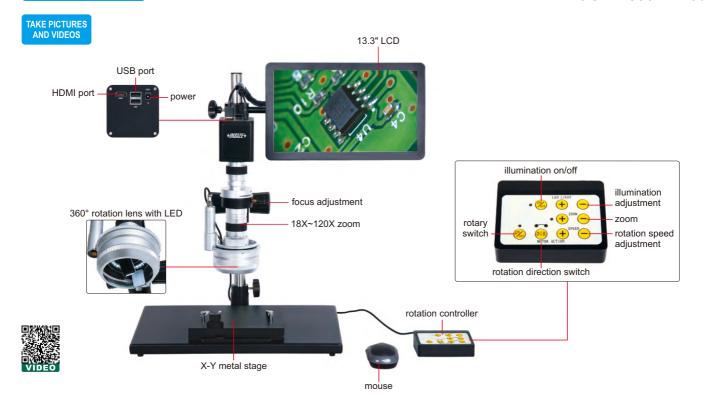
Zoom objective scale	0.75X	1X	1.5X	2X	2.5X
Auto focus distance	48~84mm	50~78mm	55~73mm	62~71mm	65~70mm
Zoom objective scale 3X 3.5X 4X 4.5X 5X					
Auto focus distance	66~70mm	67~70mm	68~70mm	68~70mm	68~70mm

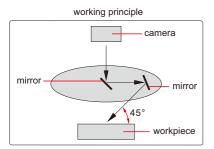
OF HONAL ACCESSORY		
1X camera adapter	ISM-DL-CA1X	
2X auxiliary objective	ISM-DL-OB2X	
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE	
X-Y metal stage	ISM-DL-STAGE1	
LED light	page 431~432	
Auxiliary objective	page 433	



SUITABLE TO CHECK CONVEX OBJECTS AND WALL OF HOLE

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

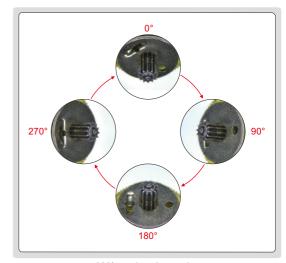




- 1080P high-definition 3D imageTake pictures and videos, save to USB flash disk
- Automatic white balance and exposure
- Brightness, contrast ratio and gain are adjustable

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

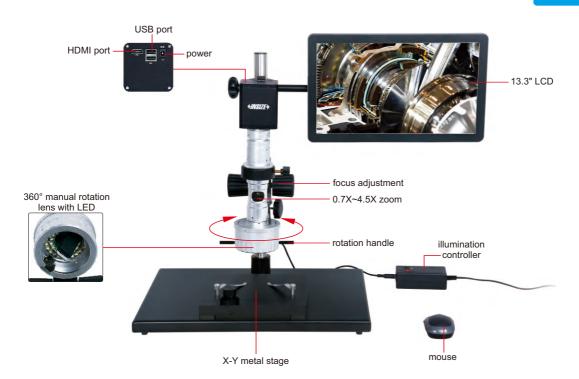
Main unit	1 pc
Rotation controller	1 pc
X-Y metal stage	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
Power adapter	2 pcs

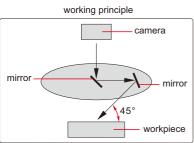


3D MANUAL ROTATION MICROSCOPE (WITH DISPLAY) CODE 5313-S407

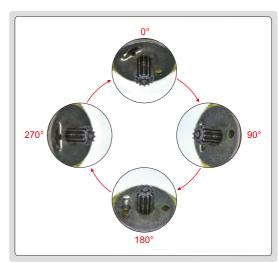
SUITABLE TO CHECK CONVEX OBJECTS
AND WALL OF HOLES

TAKE PICTURES AND VIDEOS





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
Power supply	220V, 50/60Hz
Dimension (L×W×H)	570×300×430mm
Weight	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)



1X camera adapte (optional)

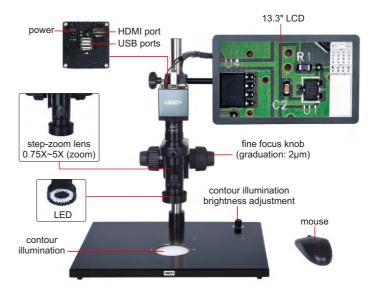


2X auxiliary objective (optional)

- 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

of Edit Idation			
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

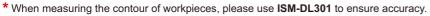
Code	ISM-DL300	ISM-DL301
Main unit	1 pc	1 pc
0.5X camera adapter	1 pc	1 pc
1X auxiliary objective	1 pc	1 pc
Calibration plate	1 pc	1 pc
16G USB flash disk	1 pc	1 pc
White/black plate	1 pc	1 pc
Mouse	1 pc	1 pc
HDMI cable	1 pc	1 pc
Power adapter	2 pcs	3 pcs

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





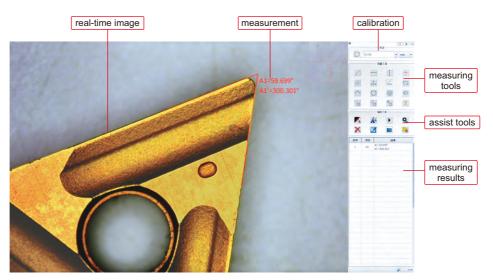
MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary objective 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	

18

SOFTWARE (INCLUDED)

■ Refer to page 428 for details

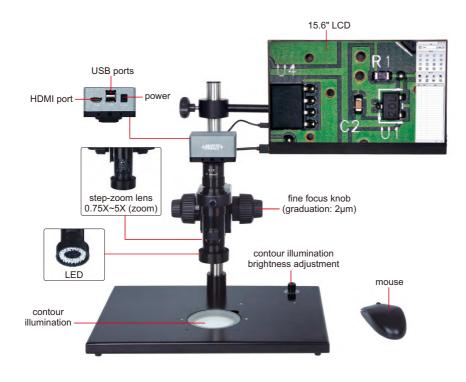






MEASUREMENT

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





INSIZE+







(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

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

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

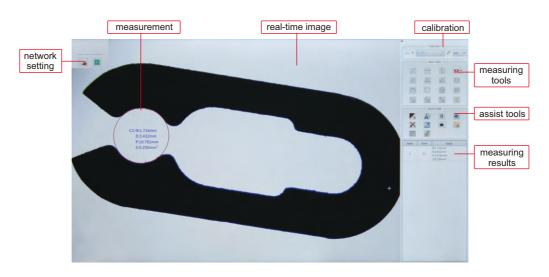
OPTIONAL ACCESSORY

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

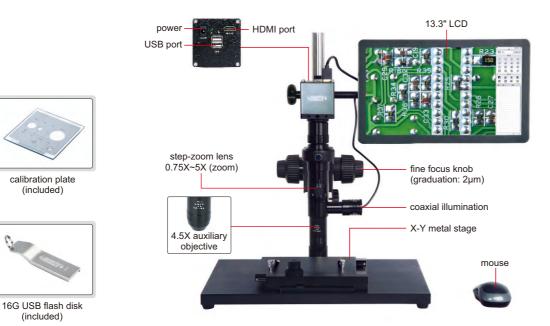


18

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)

- 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**

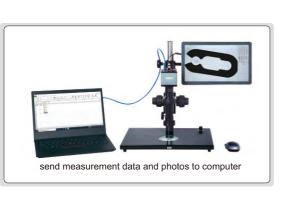
BUILT-IN SOFTWARE WITHOUT COMPUTER

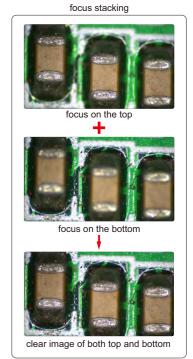
FOCUS STACKING





- 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







1X auxiliary objective (included)



2X auxiliary objective (optional)

SPECIFICATION

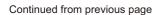
Magnification	15X~100X
Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm



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

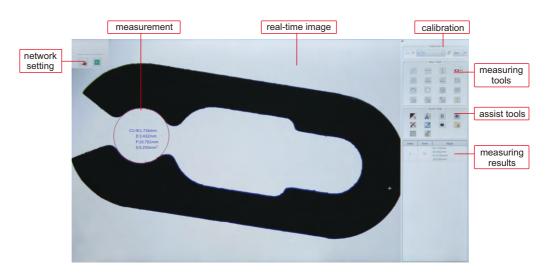


MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

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

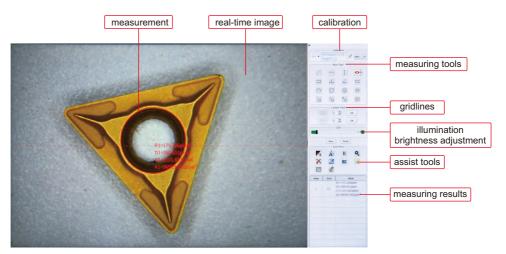
Main unit	1 pc
Calibration plate	1 pc
Power adapter	1 pc
Mouse	1 pc
16G USB flash disk	1 pc

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

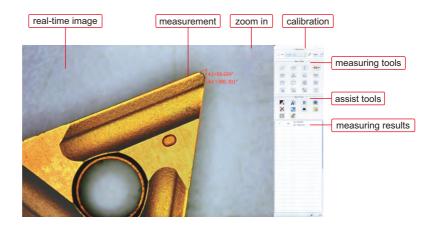
SOFTWARE (INCLUDED)

■ Refer to page 428 for details



18

MEASURING SOFTWARE OF DIGITAL MICROSCOPES

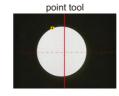


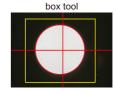
- Included in digital microscopes (ISM-DL300, ISM-DL301, 5310-DL401, ISM-DL302, ISM-DL510, 5307-ID100A)
- Language: Simplified Chinese, Traditional Chinese, English, Korean





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

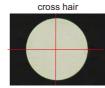
- measure length of line or distance between two points in horizontal direction
- measure angle from vertical line
- measure distance between two parallel lines
- measure radius, length and angle of arc
- measure radius, diameter, girth and area concentric of circles
- measure distance between point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

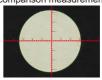
Assist tools:

- 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:



graduated cross hair for comparison measurement



Grid comparison measurement:



full-screen grid for comparison measurement, adjustable grid number

Output to Excel:

1	Al	A1=59.699° A1'=300.301"

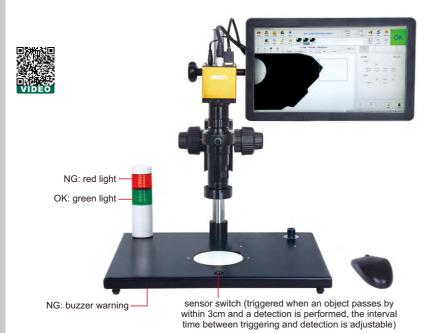
■ Comparison:

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
- read barcode
- burr detectioncontour matching
- color detectionread QR code
- object counting
- 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

L	Tool ID	Tool Harrie	Setection Times	GK Court	NG Court	Vield Rate	Defective rate
Ι	7181	Points distance	490	208	244	50.20%	49.80 %
	T182	Chater	94	74	30	18.72 %	31.26 %
]	Summary		493	244	249	49.45%	50.51%
3							
							0
1							
]							
ı							
1							
0							
ı,							
2							
3							
٠							
5							

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

1	102 Cluster				
Ī	Detection number	Detection time	Detection color	Number of spots	Maximum rad
1	700101_000641_001	33ms	白色	0	0.0000mm
2	700101_001151_001	31ms	自色	0	0.0000mm
3	700101_001202_001	31ms	白色	0	0.0000mm
4					
5					
6					
8					
9					
10					
12					

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
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		Camera adapter	
objective		0.5X (included)	1X (optional)
1X	Magnification	15~100X	30~200X
(included)	Focus distance	70±2mm	70±2mm
(moradou)	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
(Sparonal)	View filed	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm

OPTIONAL ACCESSORY

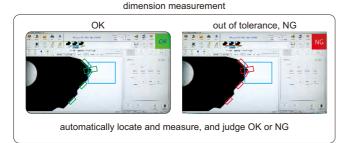
1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
LED light	page 431~432
Auxiliary objective	page 433

To be continued

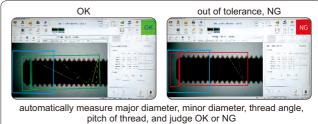
18

■ APPLICATION EXAMPLES:

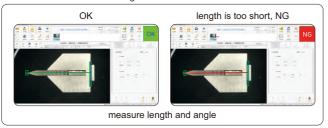




thread measurement



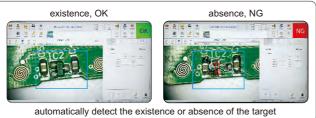




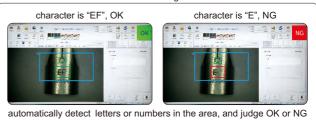








character recognition



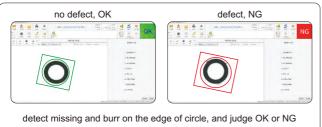




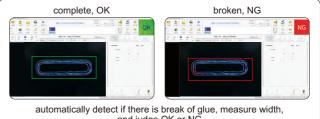
location detection



surface defect detection



glue detection



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

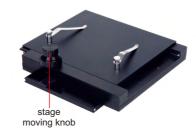


X-Y METAL STAGE CODE ISM-DL-STAGE1

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

SPECIFICATION

or Lon Idanian	
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

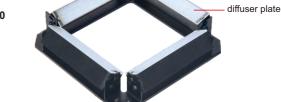
 Diffuser plate is included to reduce the reflective effect on workpieces

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

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 Idanian	
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

8W
Ø25mm
10~12V, 0~300mA
Q





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	Curacification	Camera adapter		
Auxiliary objective	Specification	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	
0.57	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	
A 75V	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	
47	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 FV	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	
27	Magnification	40~246X	80~492X	
2X (optional)	Focus distance	24~42mm	24~42mm	
(optional)	View field	7.5×4~1.3×0.7mm	3.8×2~0.7×0.4mm	

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD (5310-DI 401 ISM-DI 300 ISM-DI 301 ISM-DI 302 ISM-DI 400 ISM-DI 510)

Auxiliary objective	G., : £i 4i	Camera adapter		
Auxiliary objective	Specification	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	
^ =v*	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 ==v*	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	
47	Magnification	15~100X	30~200X	
1X (included)	Focus distance	70±2mm	70±2mm	
(moradea)	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	
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

+INSIZE+

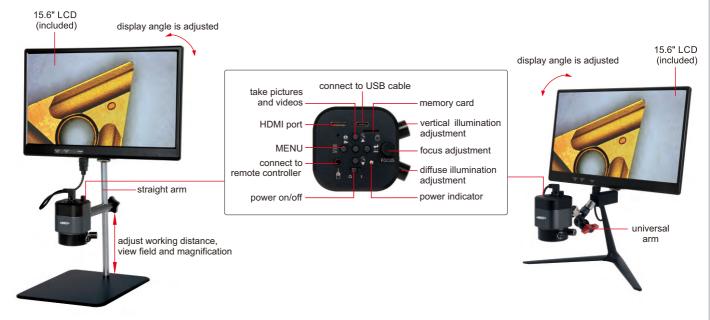
MEASUREMENT

TAKE PICTURES AND VIDEOS



DIGITAL MICROSCOPES

5309-DM51

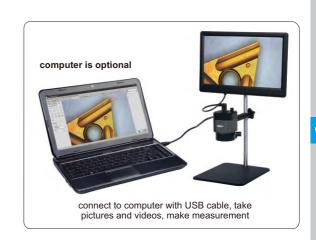


- Independent control of vertical illumination and diffuse illumination
- Back focus adjustment extends working distance
- Take pictures and videos, save to memory card

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)

ase compaters, optional			
View field	Measuring accuracy		
38.5×21.7mm	±0.02mm		
26.6×15.0mm	±0.02mm		
20.5×11.7mm	±0.02mm		
16.0×9.0mm	±0.02mm		
11.9×6.3mm	±0.02mm		
9.8×5.5mm	±0.01mm		
7.6×4.1mm	±0.01mm		
	View field 38.5×21.7mm 26.6×15.0mm 20.5×11.7mm 16.0×9.0mm 11.9×6.3mm 9.8×5.5mm		

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)



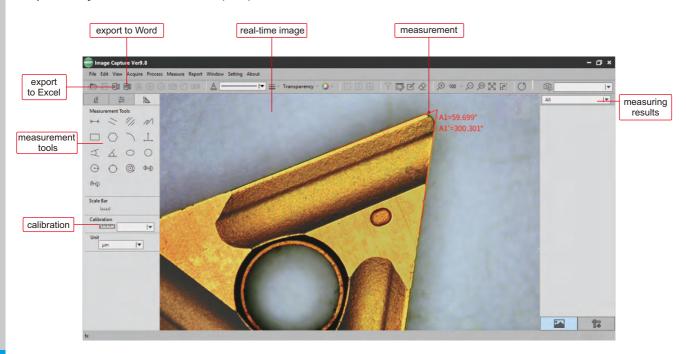
white/black plate (included)



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:













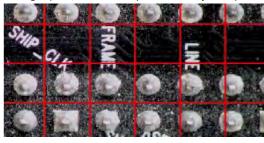
MINI DIGITAL MICROSCOPE (ECONOMIC TYPE) CODE 5311-M710





cross hair

grid (color, line width and positions are adjustable)



SPECIFICATION

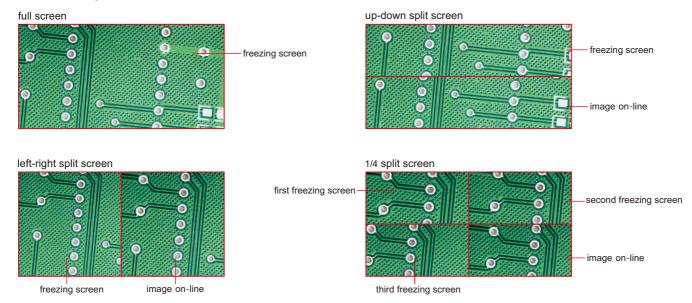
Display resolution	1024×600
Sensor	1/3" CMOS
Sensor resolution	1280×960
Single pixel size	2μm×2μm
Frame rate	60fps/30fps
Magnification	1X~16X
White balance	auto/manual (10 levels RGB)/calibration
Exposure control	AE lock/exposure compensation (10 levels)
Image control contrast/saturation/sharpness	
Record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

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



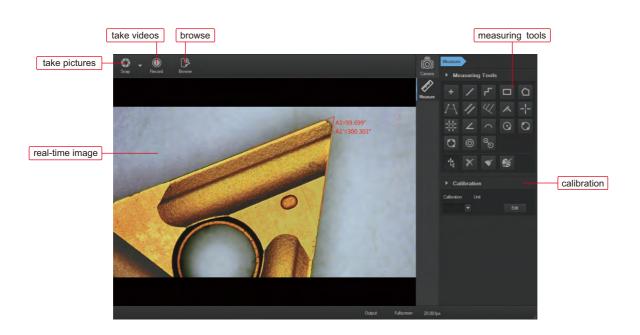
Screen freezing:



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 (included)



DIGITAL MEASURING MICROSCOPES

stand



- 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



measure radius, length and angle of arc

measure area of rectangle



add number with circle

measure distance between two circles measure distance between

two parallel lines

measure length of continuous line measure angle with

three points

measure angle with two lines

measure radius, girth and area of circle

measure distance between point and line



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

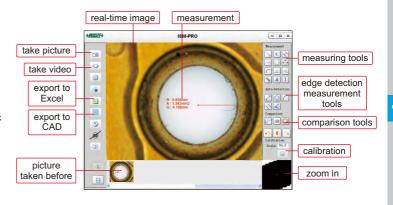






MAGNIFICATION. FOCUS DISTANCE. VIEW FIELD AND ACCURACY

MAGNII ICATION, I OCOS DISTANCE, VIEW I ILLE AND ACCORACT			
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

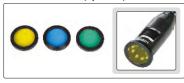
take picture illumination adjustment USB/WiFi switch magnification adjustment focus support



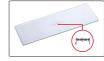












plastic calibration rule (graduation 1mm, included)

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

017111071110 0221112111	
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

0	
Stand	ISM-PM-STAND
Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-DM-RI HE

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

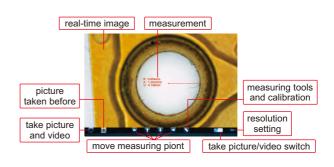
measure length of line or distance between two points



measure radius, girth and area of circle with three points



measure angle



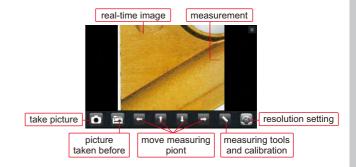


2 Software ISM-APK (for Android devices by WiFi)

measure length of line or distance between two points

measure radius, girth and area of circle with three points

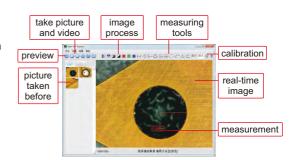
measure angle



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 angle with two lines
- 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

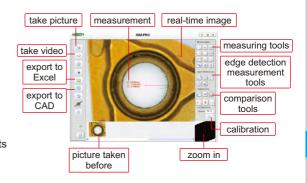


4 Software ISM-PRO (for computer by USB cable)

Measuring tools:

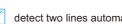
- measure length of line or distance between two points
- measure length of continuous line
- measure radius, length and angle of arc
 - measure distance between two circles
- measure distance between two parallel lines
- measure radius, girth and area of circle

- 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-M500BD (bright & dark field objectives)			
Illumination	6V/30W halogen lamp, brightness is adjustable				12V/50W halogen lamp, brightness is adjustable			
Objective	bright field objectives			bright & dark field objectives				
(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	eld: Ø22mm)						
	double layer	double layer						
Stage	size: 160×14	size: 160×140mm						
	travel: 35x30	travel: 35x30mm						
Pupil distance	53~75mm	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

5:1/0 1 1	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

^{*}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

OF EGII IOATION							
Magnification	40X~400X	40X~400X					
Eyepiece (wide field)	10X (view field: Ø22mm	10X (view field: Ø22mm)					
Objective (plan achromatic)	4X	4X 10X 20X 40X					
Numerical aperture	0.10	0.10 0.25 0.40 0.60					
Working distance	17.8mm	10mm	5.8mm	2.9mm			
Stage	double layer, size: 300×2	double layer, size: 300×268mm, travel: 250×200mm					
Kohler illumination	6V/20W halogen lamp, b	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 eyepieces)						
Power supply	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

	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	

^{*}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-M600	BD (bright &	dark field obj	ectives)	
Illumination	6V/30W (transmitted) 6V/30W (reflected)			12V/30W (transmitted) 12V/50W (reflect		/ (reflected)			
Objective	bright field o	bright field objectives			bright & dar	bright & dark field objectives			
(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: 210×140mm								
	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							·	

STANDARD DELIVERY

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

Bright & dark field objective	PL50X	5101-M-BD50X	
	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

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	bright field objectives			bright & dark field objectives			
(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 field: Ø22mm)							
	double layer							
Stage	size: 242×20	00mm						
	travel: 30x30)mm						
Pupil distance	53~75mm	53~75mm						
Diopter adjustment	±5 diopter (one eyepiece)							
Power supply	220V, 50/60Hz							
Dimension (L×W×H)	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/d	liv.)	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	

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



ZOOM STEREO MICROSCOPE (PROFESSIONAL TYPE) CODE 5107-S70T





LED ring light (optional)



- 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

017 11127 1112 22217 2111		
Main unit	1 pc	
10X eyepiece	2 pcs	
Ø100mm glass plate	1 pc	
Ø100mm white/black plate	1 pc	
Anti-dust cover	1 pc	

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Auxiliary objective	0.5X	5107-S70T-OB05X	
	1.5X	5107-S70T-OB15X	
	2X	5107-S70T-OB20X	
Eyepiece	15X (view field: Ø16mm)	5107-S70T-EP15X	
	20X (view field: Ø12.5mm)	5107-S70T-EP20X	
LED ring light		ISM-ZS-RL	
Digital camera		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







- 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

OF HONAL ACCESSOR		
	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		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)







LED ring light (optional)

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 HOMAL ACCEPTORY			
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	

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

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



ZOOM STEREO MICROSCOPE (BASIC TYPE) CÒDE ISM-ZS30



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	ve 97mm	
Max. workpiece height 60mm		
Illumination	adjustable reflected and 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

OPTIONAL ACCESSORY

	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

^{*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. 20. 10. 10.		
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

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



450

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

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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				
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)				
mumination	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				

STANDARD DELIVERY

OTANDARD 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

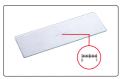
OF HOMAL ACCESSORY		
Objective for reflected system	PL20X	ISM-POL1000-OBR20X
	PL40X	ISM-POL1000-OBR40X
	PL60X	ISM-POL1000-OBR60X
	PL100X	ISM-POL1000-OBR100X
Objective for transmitted system	PL100X	ISM-POL1000-OBT100X
Specimen presser		ISM-POL1000-SP



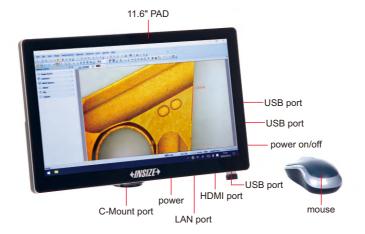
ATTENTION: CAMERA CONNECTOR AND ADAPTER ARE NEEDED ACCORDING TO MICROSCOPES

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

MEASUREMENT, TAKE PICTURES AND VIDEOS

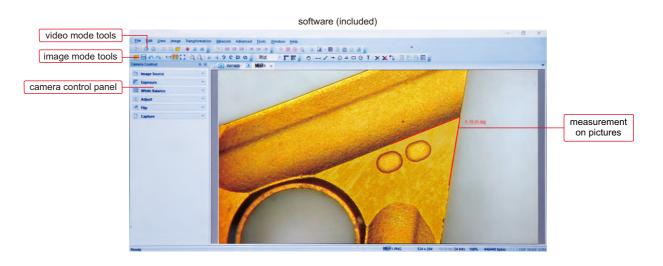


glass calibration rule (included, graduation 0.1mm)





- 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

show/hide scale

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

OTANDARD DELIVERY	
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



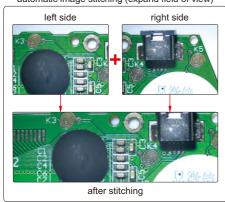
- To be used with computers
- Sony Exmor back-illuminated CMOS sensor
- USB3.0 transmission
- Automatic exposure, gain adjustment, white balance, chrominance adjustment, saturation adjustment, gamma correction, luminance adjustment, contrast adjustment



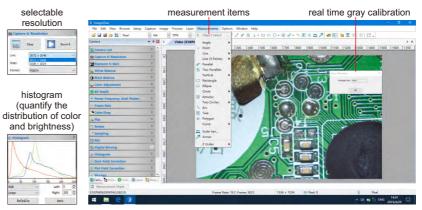


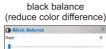


automatic image stitching (expand field of view)













Green: 0

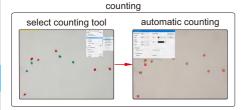
B

Blac: 5

Black Balance Befordts

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.

flat field correction



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

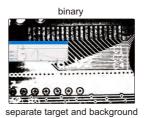
measure diameter, length, perimeter angle of arc

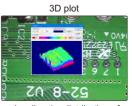
measure area of polygon

measure center distance between two circles

measure length of open curve

focus stacking + Cous on the top focus on the bottom clear image of both top and bottom





visualize the distribution of image brightness and color

To be continued



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

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

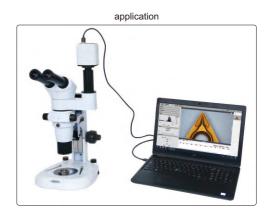
ATTENTION: ADAPTERS ARE NEEDED ACCORDING TO MICROSCOPES

FOCUS STACKING AUTOMATIC IMAGE STITCHING





- 1080P high-definition imageCan 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 distance between point and line

measure rectangle

measure concentric circles

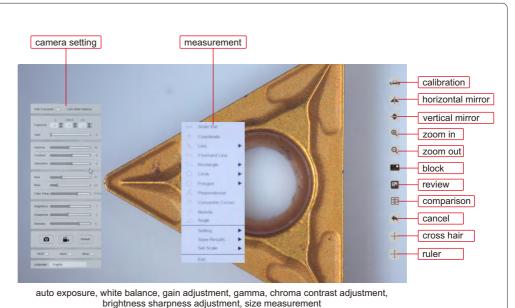
measure circle

measure curve

measure polygon

measure center distance of two circles

measure angle of two lines



To be continued

18



Continued from previous page

PROFESSIONAL MEASURING SOFTWARE (INCLUDED, FOR COMPUTERS)

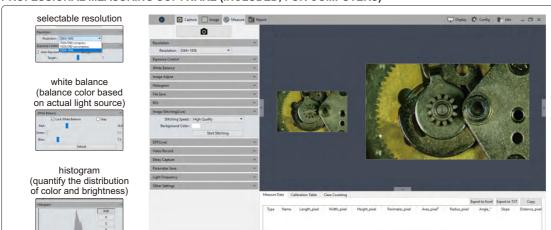


image coloring, fluorescence synthesis, binary, image smoothing, color filter/color extraction/color inversion, delay capture, focus stacking, automatic image stitching, metrics flow, manual counting, dynamic and static measurement, layered measurement, report generation and printing, delay record, flat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



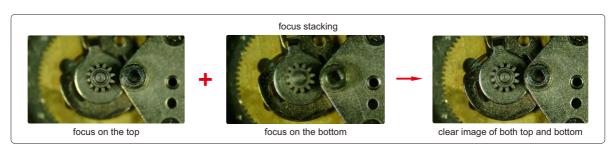


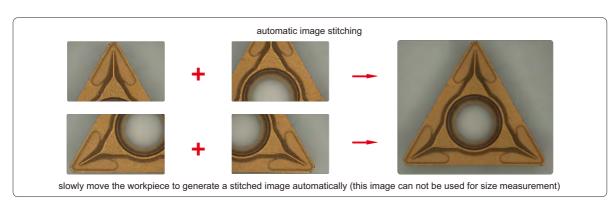
metrics flow (create templates, set tolerances and build metrics flow)



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

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

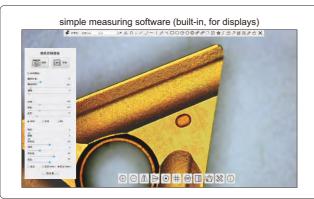
C-mount port

- 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 ECII 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	
Aujustable lelis auaptei	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	

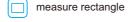
COMPUTER

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

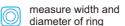
PROFESSIONAL MEASURING SOFTWARE (INCLUDED, FOR COMPUTERS)

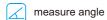
Measuring tools:

measure length of line or distance between two points

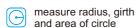


measure distance between two parallel lines

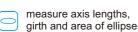








perimeter angle of arc



calibration

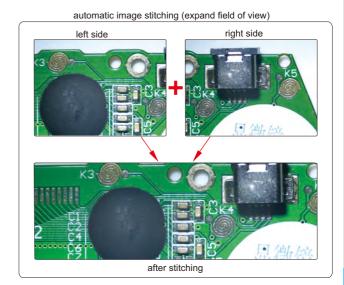


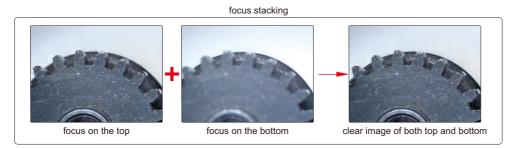


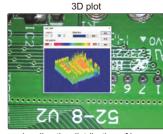
measure center distance between two circles



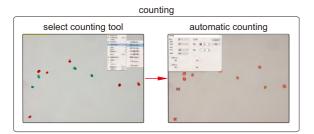
measure length of open curve

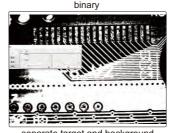






visualize the distribution of image brightness and color





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



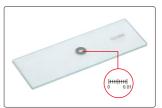






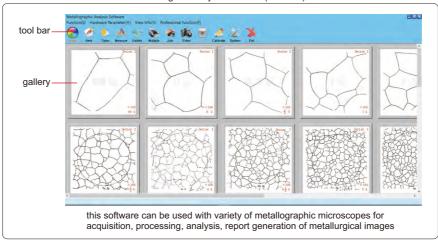


software CD (included)

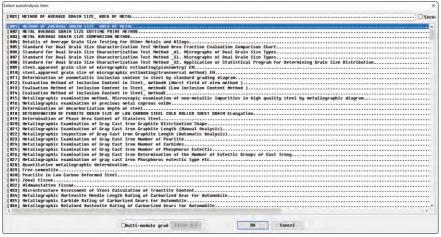


glass calibration rule (included, graduation 0.01mm)

metallurgical analysis software (included)



metallurgical module list



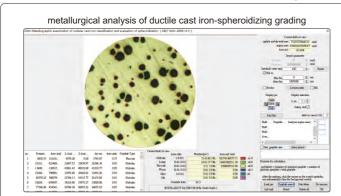
To be continued

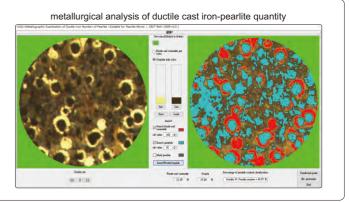
18

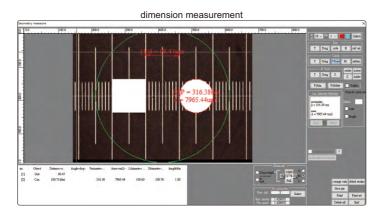
4-INSIZE+

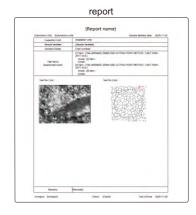
Continued from previous page

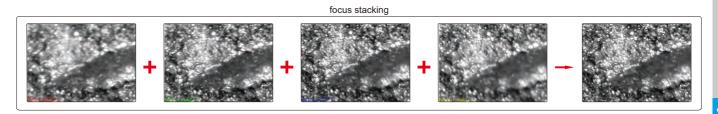
examples of metallurgical analysis

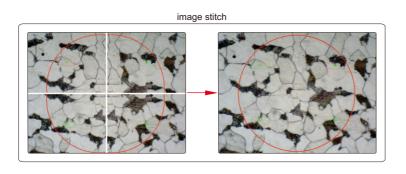


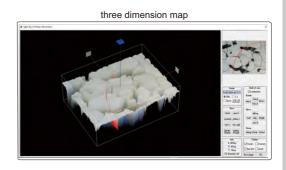












SPECIFICATION

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

18

Code	ISM-AD-0D5	ISM-AD-A0D5 *	ISM-AD-0D75	ISM-AD-A0D75
Туре	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	