PROFILE PROJECTORS, QUICK MEASUREMENT SYSTEMS, VISION MEASURING SYSTEMS



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INSPECTION CERTIFICATE

PROFILE PROJECTORS





digital readout of ISP-A1000E



- touch buttons
- USB data output to Excel and CAD
- show diagram







software flash disk (included, only for ISP-A1000E)

OPTIONAL ACCESSORY



lens



swivel center support



blue filter



rotary table (glass plate diameter 100mm)



V-block with clamp



demo sample



overlay chart (protractor with 1° graduation, radius with 1mm increment)



50mm reading scale (check magnification accuracy)



printer (only for ISP-A1000E)



holder with clamp



300mm calibration scale (check magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)

SPECIFICATION

Code		ISP-Z3015	Phi	ISP-A1000E	26/21/22/2011		
Edge detector		not included		included			
	magnification		20X (optional)	50X (option	(al) 100X (optional)		
Lens	view field		Ø15mm	Ø6mm	Ø3mm		
working distance		77.7mm	44.3mm	38.4mm	25.3mm		
Max. workpie		90mm	90mm	90mm	90mm		
Magnification		±0.08%					
Image	·	erect image					
		diameter: Ø300mm					
Projector scre	een	rotation range: 0°~360°, re	esolution: 1" or 0.01	0			
		reference lines: cross-hair	rs				
	metal stage size	340×152mm					
	glass stage size	196×96mm					
		range: 150×50mm					
Stage	X-Y stage travel	resolution: 0.5µm					
		accuracy: (4+L/25)µm L is the measuring length in mm					
	Z (focus) travel range	90mm					
	max. load capacity	4kg					
Illumination		contour illumination: 24V/	150W halogen lamp	, brightness is a	djustable		
mummation		surface illumination: 24V/150W halogen lamp					
	display	X-Y stage travel, screen rotation					
	output	RS232C		RS232C, US	SB (data output to Excel and CAD)		
Data processing unit function		measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines set origin of coordinate coordinate transform measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform choose measurement object automatically according to the			sure center coordinate, us of circle with three points sure distance between objects sure angle with four points o lines dinate transform use measurement object		
	advanced function	_		programmin	g for batch measurements		
Power supply	,	110/220V, 50/60Hz					
Dimension (L×W×H)		550×770×1100mm					
Weight		135kg					
1 1 87	CL TINKEN OF I	1 2	INC	3/1/1/2	OF IN		

STANDARD DELIVERY

OTANDARD DELIVERY	AV 238
Main unit	1 pc
10X lens with half-reflection mirror and oblique illuminator mirror	1 pc
Overlay chart clip	4 pcs
Foot-switch	1 pc
Anti-dust cover	1 pc
Software (only for ISP-A1000E) and USB cable	1 pc

OPTIONAL ACCESSORY

	1.4.		
20X lens with half-reflection mirror and oblique illuminator mirror	ISP-Z3015-LENS20X		
50X lens with half-reflection mirror	ISP-Z3015-LENS50X		
100X lens with half-reflection mirror	ISP-Z3015-LENS100X		
Rotary table	ISP-Z3015-TABLE		
Overlay chart	ISP-Z3015-CHART		
Holder with clamp	ISP-Z3015-HOLDER		

Swivel center support	ISP-Z3015-SUPPORT
V-block with clamp	ISP-Z3015-VBLOCK
50mm reading scale	ISP-Z3015-SCALE50
300mm calibration scale	ISP-Z3015-RULE
Blue filter	ISP-Z3015-FILTER
Demo sample	ISP-Z3015-DEMO
Printer (only for ISP-A1000E)	ISP-A1000-PRINTER





digital readout of ISP-A5000E

- Adjust the focus by ascending and descending the projector head, the stage doesn't move up and down
- Maximum workpiece weight 50kg
- touch buttonsUSB data output to
- Excel and CAD
- show diagram







software flash disk (included, only for ISP-A5000E)

OPTIONAL ACCESSORY



lens



swivel center support



demo sample



rotary table (glass plate diameter 100mm)



V-block with clamp



printer (only for ISP-A5000E)



overlay chart (protractor with 1° graduation, radius with 1mm increment)



50mm reading scale (check magnification accuracy)



holder with clamp



300mm calibration scale (check magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)

To be continued

SPECIFICATION

Code		ISP-AZ3020		ISP-A5000E			
Edge detector		not included		included	included		
	magnification	10X (included)	20X (optional)	50X (optional)	100X (optional)		
Lens	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm		
working distance		77.7mm	44.3mm	38.4mm	25.3mm		
Max. workpied	e height	100mm	100mm	100mm	100mm		
Magnification	accuracy	±0.08%					
Image		erect image					
Projector scre	en	rotation range: 0°~36	60°, resolution: 1" or 0.01	٥			
		reference lines: cross	s-hairs				
	metal stage size	404×228mm					
	glass stage size	260×160mm					
		range: 200×100mm					
Stage	X-Y stage travel	resolution: 0.5µm					
		accuracy: (3+L/75)µm L is the measuring length in mm					
	Z (focus) travel range	100mm					
	max. load capacity	50kg					
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable					
mummation		surface illumination: 24V/150W halogen lamp					
	display	X-Y stage travel, screen rotation					
	output	RS232C		RS232C, USB (da	ata output to Excel and CAD)		
Data processing unit	function	measure coor	ter coordinate, e with three points ance between le with four lines oordinate	measure of radius of of two object or two lines coordinates choose measure automatics.	angle with four points		
	advanced function	_		programming for batch measurements			
Power supply		110/220V, 50/60Hz					
Dimension (L×W×H)		780×780×1100mm					
Weight		160kg					

STANDARD DELIVERY

ON MIDITION DELIVERY	
Main unit	1 pc
10X lens with half-reflection mirror and oblique illuminator mirror	1 pc
Overlay chart clip	4 pcs
Foot-switch	1 pc
Blue filter	1 pc
Anti-dust cover	1 pc
Software (only for ISP-A5000E) and USB cable	1 pc

OPTIONAL ACCESSORY

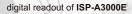
20X lens with half-reflection mirror and oblique illuminator mirror	ISP-A5000-LENS20X
50X lens with half-reflection mirror	ISP-A5000-LENS50X
100X lens with half-reflection mirror	ISP-A5000-LENS100X
Rotary table	ISP-A5000-TABLE
Overlay chart	ISP-A5000-CHART
Holder with clamp	ISP-A5000-HOLDER
Swivel center support	ISP-A5000-SUPPORT
V-block with clamp	ISP-A5000-VBLOCK
50mm reading scale	ISP-A5000-SCALE50
300mm calibration scale	ISP-A5000-RULE
Demo sample	ISP-A5000-DEMO
Printer (only for ISP-A5000E)	ISP-A5000-PRINTER





ISP-W3020

ISP-A3000E





- touch buttons
- USB data output to Excel and CAD
- show diagram







software flash disk (included, only for ISP-A3000E)



lens



demo sample



300mm calibration scale (check magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)

OPTIONAL ACCESSORY



overlay chart (protractor with 1° graduation, radius with 1mm increment)



vis



printer (only for ISP-A3000E)



50mm reading scale (check magnification accuracy)



rotary table

To be continued

SPECIFICATION

Code		ISP-W3020		ISP-A3000E			
Edge detector		not included	includ	ded			
	magnification	10X (included) 20X (optional) 50X ((optional)	100X (optional)		
Lens	view field	Ø30mm Ø15n	nm Ø6m	m	Ø3mm		
	working distance	77.7mm 44.3n	nm 38.4r	nm	25.3mm		
Magnification	accuracy	±0.08%					
Projector screen		diameter: Ø300mm rotation range: 0°~360°, resolution: 1' or 0.01° reference lines: cross-hairs					
	metal stage size	400×150mm					
	turning range	±15°					
Stage	X-Z stage travel	range: 200×100mm resolution: 0.5µm accuracy: (4+L/25)µm L is the	measuring length in mm	1			
	Y (focus) travel range	75mm					
	max. load capacity	50kg					
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable					
	display	X-Z stage travel, screen rotation					
	output	RS232C RS232C, USB (data output to Excel and					
Data processing unit function		measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines set origin of coordinate coordinate transform		measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform choose measurement object automatically according to the selective point and display the result			
	advanced function	set midpoint of coordinate	progr	programming for batch measurements			
Power supply		110/220V, 50/60Hz	, , ,				
Dimension (L×W×H)		830×1090×1010mm					
Weight		160kg					

STANDARD DELIVERY

	A CP
Main unit	1 pc
10X lens	1 pc
Overlay chart clip	4 pcs
Foot-switch	1 pc
Anti-dust cover	1 pc
Software (only for ISP-A3000E) and USB cable	1 pc

OPTIONAL ACCESSORY

20X lens	ISP-A3000-LENS20X
50X lens	ISP-A3000-LENS50X
100X lens	ISP-A3000-LENS100X
Overlay chart	ISP-A3000-CHART
50mm reading scale	ISP-A3000-SCALE50
300mm calibration scale	ISP-A3000-RULE

Demo sample	ISP-A3000-DEMO			
V-block with clamp	ISP-A3000-VBLOCK			
Rotary table	ISP-A3000-RTABLE			
Vise	ISP-A3000-VISE			
Printer (only for ISP-A3000E)	ISP-A3000-PRINTER			



ISP-W4025

ISP-A7000E



digital readout of ISP-A7000E

- touch buttonsUSB data output to Excel and CAD
- show diagram







software flash disk (included, only for ISP-A7000E)



demo sample (need rotary table)

300mm calibration scale (check

magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)



OPTIONAL ACCESSORY



printer (only for ISP-A7000E)



Ø300mm overlay chart (protractor with 1° graduation, radius with 1mm increment)



rotary table



50mm reading scale (check magnification accuracy)

SPECIFICATION

Code		ISP-W4025		9.052	ISP-A7000E			
Edge detector		not included			includ	ed		
	magnification	5X (optional)	10X (standard)	20X (o p	tional)	50X (optional)	100X (optional)	
Lens	view field Ø80mm Ø40mm Ø20mm		1	Ø8mm	Ø4mm			
working distance		93.7mm	103.9mm	95.1mm	1	65.7mm	35mm	
Magnification	n accuracy	±0.08%						
Image		erect image						
Projector screen		diameter: Ø400r	nm					
		rotation range: 0	0°~360°, resolution: 1	' or 0.01°				
		reference lines: cross-hairs						
	metal stage size	450×200mm						
	turning range	±15°						
		range: 250×150i	mm					
Stage	X-Z stage travel	resolution: 0.5µr	n					
		accuracy: (4+L/2	25)µm L is the mea	suring leng	th in mr	n		
	Y (focus) travel range	100mm						
	max. load capacity	50kg						
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable						
		surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable						
	display	X-Z stage travel, screen rotation						
	output	RS232C			RS232	2C, USB (data output	to Excel and CAD)	
		x measure	coordinate of point		0	measure coordinate	of point	
			coordinate of line		measure coordinate of line			
		radius of	center coordinate, circle with three poir	nts	measure center coordinate radius of circle with three p		hree points	
Data processing	function	measure two object	distance between ets			measure distance be two objects	etween	
unit	landion	measure or two line	angle with four point es	is		measure angle with to or two lines	our points	
		set origin	of coordinate			coordinate transform		
		coordinat	te transform		choose measurement object automatically according to the		ng to the	
		1/2 set midpo	oint of coordinate		selective point and display the result			
	advanced function	_			programming for batch measurements			
Power supply	y	110/220V, 50/60I	Hz					
Dimension (L	_×W×H)	646×1215×1210mm						
Weight		240kg						
		7.100		12	816	/ V /// YII		

STANDARD DELIVERY

Main unit	1 pc
10X lens	1 pc
Overlay chart clip	4 pcs
Foot-switch	1 pc
Anti-dust cover	1 pc
Software (only for ISP-A7000E) and USB cable	1 pc

OPTIONAL ACCESSORY

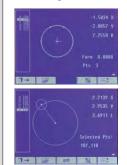
5X lens	ISP-W4025-LENS5X
20X lens	ISP-W4025-LENS20X
50X lens	ISP-W4025-LENS50X
100X lens	ISP-W4025-LENS100X
Ø300mm overlay chart	ISP-A3000-CHART
50mm reading scale	ISP-A3000-SCALE50

300mm calibration scale	ISP-A3000-RULE
Demo sample	ISP-A3000-DEMO
V-block with clamp	ISP-A3000-VBLOCK
Rotary table	ISP-A3000-RTABLE
Vise	ISP-A3000-VISE
Printer (only for ISP-A7000E)	ISP-A3000-PRINTER

edge detector (for ISP-A6000E)

digital readout

- touch buttons
- USB data output to Excel and CAD
- show diagram









software flash disk (included)

OPTIONAL ACCESSORY



lens



rotary table (glass plate diameter 100mm)



holder with clamp



printer



300mm calibration scale (check magnification accuracy together with 50mm reading scale or calibrate measuring accuracy)



50mm reading scale (check magnification accuracy)



demo sample

SPECIFICATION

Code		ISD-A6000		ISD.	A6000E			
Edge detector		ISP-A6000 not included						
Lage detector		not included included diameter: Ø600mm						
Projector screen				2: 1' or 0 01°				
Projector screen			0°~360°, resolution	1: 1' or 0.01'				
	:6:4:	reference lines:		200/ /	TOV (4:1)	400V (tiI)		
	magnification	5X (optional)	10X (included)	20X (optional)	50X (optional)	100X (optional)		
Lens	view field	Ø120mm	Ø60mm	Ø30mm	Ø12mm	Ø6mm		
	working distance	242.8mm	143.2mm	85.5mm	92mm	48.5mm		
Magnification accu	racy	±0.08%						
Image		erect image						
	metal stage size	404×265mm						
	glass stage size	207×170mm						
		range: 200×100						
Stage	X-Y stage travel	resolution: 0.5µ	m					
		accuracy: (3+L/	/50)µm L is the r	neasuring length in	mm			
	Z (focus) travel range	50mm						
	max. load capacity	5kg						
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable						
IIIuIIIIIauoii		surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable						
	display	X-Y stage travel, screen rotation						
	output	RS232C, USB (data output to Excel and CAD)						
Data processing unit	function	measure measure measure coordina choose i	e distance between e angle with four po ate transform	e, radius of circle wintwo objects bints or two lines ct automatically acc				
	advanced function		or batch measurem					
Power supply	aavancea function							
Dimension (L×W×F	n	110/220V, 50/60Hz 1200×1140×1940mm						
Weight	''	1200×1140×1940mm 360kg						
weignt	132	Jourg	1	ALSON III		[75] Lat 1 T		

STANDARD DELIVERY

STANDARD DELIVERY	
Main unit	1 pc
10X lens	1 pc
Foot-switch	1 pc
Software and USB cable	1 pc
Overlay chart clip	4 pcs
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

5X lens	ISP-A6000-LENS5X
20X lens	ISP-A6000-LENS20X
50X lens	ISP-A6000-LENS50X
100X lens	ISP-A6000-LENS100X
Holder with clamp	ISP-A6000-HOLDER

300mm calibration scale	ISP-A6000-RULE
50mm reading scale	ISP-A6000-SCALE50
Rotary table	ISP-A6000-TABLE
Demo sample	ISP-A6000-DEMO
Printer	ISP-A6000-PRINTER



LARGE SIZE QUICK MEASUREMENT SYSTEM **CODE QMS-A450**



SPECIFICATION

Optical lens dual-field dual-telecentric low-distortion lens					
Measurement range		wide view field	small view field		
		500×400mm	430×350mm		
Measurement *	without stitching	±3µm ^①	±1µm②		
Accuracy	with stitching	±(5+0.02L)µm ^③	±(3+0.02L)µm ⁴		
D 4 - b : 114	without stitching	±1µm	±0.5µm		
Repeatability	with stitching	±2µm	±1.5µm		
	transmission light	telecentric illuminator, green light			
Illumination system	surface light	vertical illuminator, high angle ring white light vertical illuminator, 4-zone low and medium angle ring white light (eletric) vertical illuminator, circular (directional) green light (eletric)			
	coaxial light (optional)	vertical illuminator, white light			
Max. weight of	workpiece	25kg			
Measurement ti	me	<2s			
Measurement d	ata	2D measurement			
Environmental requirement		temperature: 20°C±2°C, relative humidity: 30%~80%, vibration: <0.002g, less than 15Hz			
Power supply		220V, 50Hz, 1200W			
Dimension (L×W×H)		1060×860×1890mm			
Weight		650kg			

- * The optimum temperature is 20°C±1°C
 ①Within 73×49mm, on focal position and environment temperature at 20°C±1°C
 ②Within 16×12mm, on focal position and environment temperature at 20°C±1°C
- Within 450×360mm, on focal position and environment temperature at 20°C±1°C
 Within 387×315mm, on focal position and environment temperature at 20°C±1°C

- One or more workpieces can be measured by one step operation
 Place workpieces at any position
 Focus and measure automatically

- Measurement of 999+dimensions and 200+workpieces
- Suitable for parts with high precision requirements for large, medium, and small sizes

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc

OPTIONAL ACCESSORY

Coaxial light illumination	QMS-43-A1
Data transmission function of software	QMS-23-D1
CAD import function of software	QMS-23-C1
Laser sensor	QMS-43-SJ1
Foot-switch	QMS-43-FS1

Software (included)

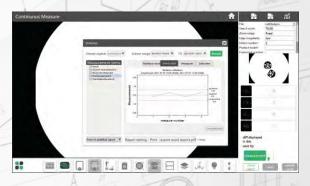
Automatically measure widths, holes, rings, angles at the same time, simple and efficient





■ Measuring result can be stored automatically. OK items and NG items can be counted automatically





QUICK MEASUREMENT SYSTEMS (WITH STITCHING)



•	_	0	ΙEΙ	-	A 7	-1	_	

Code		QMS-A220		QMS-A315		QMS-A320		
		dual-field dual-telecentric low-distortion lens						
Optical lens		wide view field: Ø100mm small view field: Ø25mm		wide view field: Ø100mm small view field: Ø25mm		wide view field: Ø150mm small view field: Ø50mm		
View field rang	10	wide view field	small view field	wide view field	small view field	wide view field	small view field	
view neid rang		93×62mm	20×16mm	100×80mm	25×20mm	150×110mm	50×35mm	
Measurement r	ange	200×200mm	130×130mm	300×200mm	230×130mm	300×210mm	200×135mm	
Measurement	without stitching	±3µm①	±1µm②	±3µm①	±1µm②	±5µm ^③	±2µm ^④	
accuracy *	with stitching	±(5+0.02L)µm⑤	±(3+0.02L)µm⑥	±(5+0.02L)µm⑦	±(3+0.02L)µm®	±(7+0.02L)µm ⁽⁹⁾	±(4+0.02L)µm ¹	
Repeatability	without stitching	±1µm	±0.5µm	±1µm	±0.5µm	±1µm	±0.5µm	
Кереатарину	with stitching	±2µm	±1.5µm	±2µm	±1.5µm	±2µm	±1.5µm	
Max. weight of workpiece		5kg						
Measurement time <2s		<2s	S					
Measurement of	data	2D measurement						
Power supply		220V, 50Hz, 600	W					
	back light	telecentric illuminator, green light						
Illumination system	ring light	4-zone circular white high light circular (directional) low-angle green light (eletric)						
	coaxial light (optional)	vertical illuminator, white light						
Environmental requirement		temperature: 20°C±2°C, relative humidity: 30%~80%, vibration: <0.002g, less than 15Hz					Z	
Dimension (L×	W×H)	532×480×766mm 532×497×766mm 669×510×883mm			m			
Weight		50kg 60kg 68kg						

- The optimum temperature is 20°C±1°C
- ① Within 80×64mm, on focal position and environment temperature at 20°C±1°C
- 2 Within 20×16mm, on focal position and environment temperature at 20°C±1°C
- 3 Within 120×88mm, on focal position and environment temperature at 20°C±1°C
- (4) Within 40×28mm, on focal position and environment temperature at 20°C±1°C
- ® Within 180×180mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage ® Within 117×117mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage

- (a) Within 270×180mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (b) Within 270×187mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×187mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×189mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage (c) Within 270×180mm, Within 180×121mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage

- One or more workpieces can be measured by one step operation
- Place workpieces at any position
 Focus and measure automatically
- Measurement of 999+dimensions and 200+workpieces
- QMS-A220 and QMS-A315 are suitable for small and medium-size
- parts with high precision requirements

 QMS-A320 is suitable for medium-size parts with low accuracy requirements and fast efficiency requirements



11.6" LCD (optional)

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc
Contware	l i bc

OPTIONAL ACCESSORY

Coaxial light illumination	QMS-23-A3 (for QMS-A220, QMS-A315)
Coaxiai light illumination	QMS-23-A4 (for QMS-A320)
Data transmission function of software	QMS-23-D1
CAD import function of software	QMS-23-C1
Laser sensor	QMS-43-SJ1 (for QMS-A315)
Foot-switch	QMS-43-FS1
11.6" LCD	QMS-23-B1 (must be installed in factory)

Software (included)

■ Automatically measure widths, holes, rings, angles at the same time, simple and efficient





■ Measuring result can be stored automatically. OK items and NG items can be counted automatically





NOTE: NOT SUITABLE FOR SMALL SIZES SUCH AS THREADS, CHAMFERS, ETC

QUICK MEASUREMENT SYSTEMS (WITHOUT STITCHING)





QMS-A110

QMS-A200

SPECIFICATION

Code		QMS-A110 QMS-A200			
Code		QWS-ATTU	QIVIS-A200		
Optical lens		low-distortion lens, single-field telecentric Ø100mm	dual-field dual-telecentric low-distortion lens wide view field: Ø150mm small view field: Ø50mm		
View field ran	~~	100×80mm	wide view field	small view field	
view neiu ran	ge	100~0011111	150×110mm	50×35mm	
Measurement range (X×Y) 98×78mm 148×108mm		148×108mm	48×33mm		
Measurement	accuracy*	±3µm ①	3μm ① ±5μm② ±2μm③		
Repeatability		±1μm ±1μm ±0.5μm		±0.5µm	
Max. weight of workpiece 5kg		5kg			
Measurement time <2s		<2s			
Measurement	asurement data 2D measurement				
Power supply	,	220V, 50Hz, 600W			
	back light	telecentric illuminator, green light			
Illumination system	ring light	4-zone circular white high light circular (directional) low-angle green light (eletric)			
	coaxial light (optional)	vertical illuminator, white light			
Environmental requirement temperature: 20°C±2°C, relative humidity: 30%~80%, vibration: <0.002g, less the		002g, less than 15Hz			
Dimension (L	×W×H)	580×235×790mm 638×336×885mm			
Weight		40kg 60kg			

- The optimum temperature is 20°C±1°C

 ① Within 80×64mm, on focal position and environment temperature at 20°C±1°C
- ② Within 120×88mm, on focal position and environment temperature at 20°C±1°C
- 3 Within 40×28mm, on focal position and environment temperature at 20°C±1°C

To be continued

- One or more workpieces can be measured by one step operation
- Place workpieces at any position
- Focus and measure automatically

- Measurement of 999+dimensions and 200+workpieces
 QMS-A110 is suitable for measuring small flat parts
 QMS-A200 is suitable for measuring flat parts with low precision requirements and small surface sizes

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc



11.6" LCD (optional)

OPTIONAL ACCESSORY

Coaxial light illumination	QMS-23-A3 (for QMS-A110)
Goaxiai light mullimation	QMS-23-A4 (for QMS-A200)
Data transmission function of software	QMS-23-D1
CAD import function of software	QMS-23-C1
Foot-switch	QMS-43-FS1
11.6" LCD	QMS-23-B1 (must be installed in factory)

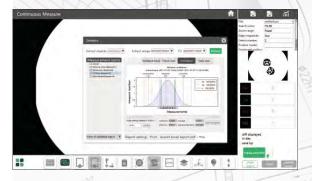
Software (included)

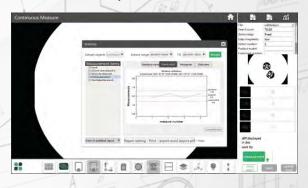
■ Automatically measure widths, holes, rings, angles at the same time, simple and efficient





■ Measuring result can be stored automatically. OK items and NG items can be counted automatically







AUTOMATIC CNC VISION MEASURING SYSTEM (PROFESSIONAL TYPE) CODE ISD-F432



- Stable and high-precision measurement under high-speed, silent and stable mode
- Accurately detect the edge of surface size



six-ring eight-zone ring light (included)



vertical light (included)

SPECIFICATION

SPECIFICATION	1.5		
Camera		giga-bit network camera	
Measuring range (X×Y×Z)		400×300×200mm (650TVL)	
Granite stage s	ize	827×480mm	
Glass stage siz	e	450×350mm	
Resolution of X	/Y/Z axis	0.5µm	
Accuracy of X/\	/ axis	≤(2+L/250)µm (L is the measuring length in mm)	
Accuracy of Z a	xis	≤(3+L/150)µm (L is the measuring length in mm)	
Objective		0.7X~5X (zoom)	
Working distance		68mm	
Magnification		28X~155X (on 23.5" monitor)	
Illumination	surface	six-ring eight-zone ring light and vertical light	
illumination	contour	bottom horizontal light	
Max. height of v	vorkpiece	200mm	
Max. weight of	workpiece	30kg	
Operation syste	ystem Windows 10		
Power supply	Power supply 220V±10% (AC), 50Hz		
Environment requirement temperature: 18~24°C, relative humidity: 30~75%		temperature: 18~24°C, relative humidity: 30~75%	
Dimension (L×V	(×H) 1270×910×1750mm		
Weight	360kg		

STANDARD DELIVERY

·	1
Main unit	1 pc
Computer	1 pc
Computer table	1 pc
Calibration glass chart	1 pc
Software	1 pc



laser probe (optional)



plate clamp (optional)

OPTIONAL ACCESSORY

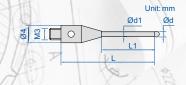
SPITONAL ACCESSORY		11 1511
	probe base*	code ISD-F-BASE1 (must be installed before shipment)
Advanced probe	probe*	code ISD-F-TP20 (must be installed before shipment)
	ruby probe	optional M2 probe series with ISQ-01 , refer to page 545
Standard probe	probe base*	code ISD-F-BASE2 (must be installed before shipment)
Standard probe	ruby probe	code ISD-F-P2
	ruby probe	code ISD-F-P3
Laser probe *** (can measure glass thickness, step height, flatness, height etc.)		code ISD-F-PB (must be installed before shipment)
Special lens for large field navigation		code ISD-F-LENS (must be installed before shipment)
PLC full-angle intelligent programmable lighting system		code ISD-F-LIGHT (must be installed before shipment)
Plate fixture (manual self-locking tempered glass)		code ISD-F-HOLDER glass size: 450×350mm can be customized
Protector		code ISD-F-PROTECTOR (must be installed before shipment)
Contour comparison module		code ISD-F-PROFILE
Office software		code 7313-OFFICE
75 100000 75 75	1,00	





standard probe (optional)

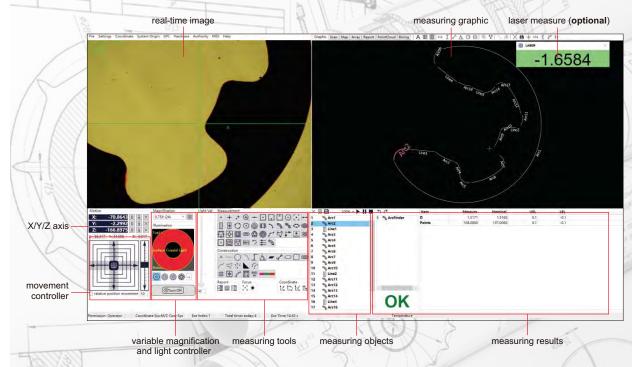
The probe head and probe are Renishaw brand
Laser probe is KEYENCE brand



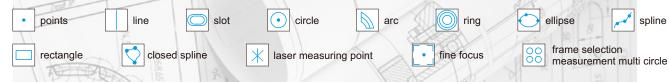
STYLUS (INCLUDED) SPECIFICATION

Code	Material	Ød	Ød1	L	L1	Quantity
ISD-F-P2	ruby ball/stainles steel stem	Ø2mm	Ø1.4mm	21mm	8mm	1 pc
ISD-F-P3	Tuby ball/staillies steel stelli	Ø3mm	Ø1.5mm		12mm	1 pc

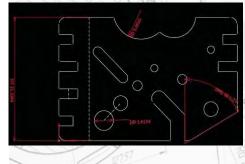
MEASURING SOFTWARE (INCLUDED)



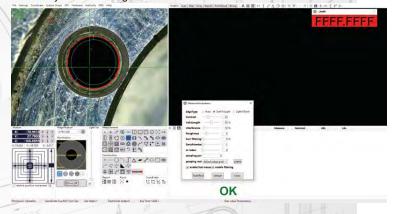
- Operation system: Windows 10
- Language: English
- Image measuring methods: crosshair point, manual point, auto point, zoom in point, line point, center point, lowest point, highest point, cloest point, focus point
- Constructable elements: point, line circle, arc, height, angle, plane, distance, ellipse, rectangle, construction ringgroove, spline, closed spline, profile, geometric tolerance
- Geometric tolerance: concentricity, parallelism, verticality, angularity, summetry, circular, arc profile
- Measurement elements can be translated and rotated
- Measuring data can export to Excel, DXF and other format files. The image area can save BMP image format
- The software includes CAD drawing import module
- The software includes SPC analysis module. The measurement software is seamlessly linked with the SPC module. After the measurement is completed, the measurement software automatically imports the data into the SPC database, allowing simple data analysis
- Dimension measuring tools:



Element annotations



Accurately detect the edge of the surface size



HORIZONTAL VISION MEASURING SYSTEM CODE ISD-W3150









table (optional)

SPECIFICATION

	The state of the s		
Measuring rang	je (X×Z)	300×150mm	
Accuracy		≤(4+L/25)µm L is the measuring length in mm	
Resolution		0.5µm	
Y travel range (focus)	125mm	
metal stage size		455×126mm	
Stage	turning range	±15°	
	max. load capacity	30kg	
Objective		0.7X~4.5X (zoom)	
Working distan	ce	96mm	
View field (diagonal length)		1.3~8.2mm	
Magnification		34X~213X	
Display		19"	
Camera		1/3" CMOS, 0.8M pixel	
Illumination		surface and contour with adjustable LED	
Operation system		Windows 10	
Drive method		manual	
Power supply		220V, 50Hz	
Dimension (L×W×H)		1164×634×1048mm	
Weight		200kg	
		7 75 17 75 77	



demo sample (optional)



vise (optional)

STANDARD DELIVERY

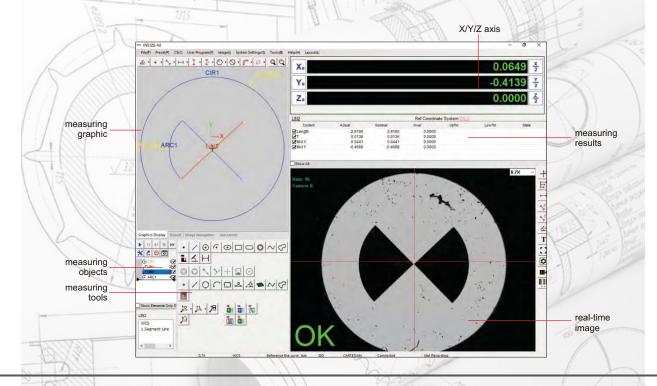
Main unit (including computer)	1 pc
Software	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

0.5X auxiliary objective	code: ISD-W-OB05X working distance: 175mm magnification: 17~106.5X
2X auxiliary objective	code: ISD-W-OB2X working distance: 32mm magnification: 68~426X
Office software	code: 7313-OFFICE
Table	code: ISD-W-TABLE
Vise	code: ISP-A3000-VISE
Demo sample	code: ISP-A3000-DEMO

To be continued

MEASURING SOFTWARE (INCLUDED)



HIGH-DEFINITION VISION MEASURING SYSTEMS (MANUAL TYPE)

- High-definition image
- Large view field
- 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



probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10µm



lens with coaxial light (optional, must be installed in factory)

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Foot switch	1 pc
Anti-dust cover	1 pc







ISD-H210

computer is included

SPECIFICATION

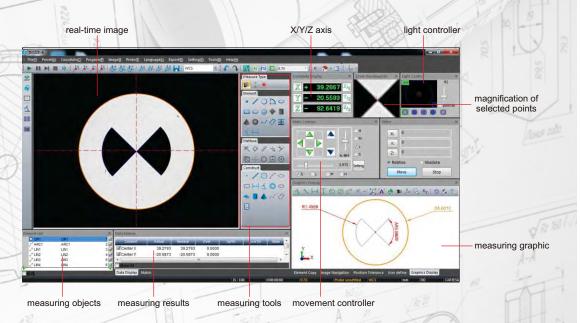
Code	ISD-H210	ISD-H320	ISD-H430			
Measuring range (X×Y×Z)	200×100×150mm	300×200×150mm	400×300×150mm			
Stage size	404×228mm	500×330mm	606×466mm			
Glass stage size	260×160mm	350×250mm	450×350mm			
Resolution of X/Y/Z axis	0.5µm					
Accuracy of X/Y axis	≤(3.5+L/100)µm (L is the	e measuring length in mm)				
Repeatability of X/Y axis	2µm					
Objective	0.58X~7.5X (zoom)					
View field (diagonal length)	1.4mm~14mm					
Working distance	82mm	82mm				
Magnification	27.4X~351X (on 24" mon	27.4X~351X (on 24" monitor)				
Camera	giga-bit network camera	giga-bit network camera				
Illumination	surface and contour with	surface and contour with adjustable LED				
Max. height of workpiece	150mm	150mm				
Max. weight of workpiece	20kg	20kg				
Operation system	Windows 7/8/10	Windows 7/8/10				
Drive method	manual	manual				
Power supply	110~240V, 50/60Hz	110~240V, 50/60Hz				
Dimension (L×W×H)	540×560×850mm	760×600×900mm	970×670×940mm			
Weight	110kg	140kg	240kg			

OPTIONAL ACCESSORY

199	
0.5X auxiliary objective	code: ISD-H-OB05X working distance: 155mm magnification: 13.7~175.5X (on 24" monitor)
2X auxiliary objective	code: ISD-H-OB2X working distance: 34.5mm magnification: 54.8~702X (on 24" monitor)
Probe	code: ISD-V-PROBE includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Vision measuring system with coaxial light lens	code: ISD-H210CL, ISD-H320CL, ISD-H430CL
Office software	code: 7313-OFFICE

SOFTWARE (INCLUDED)

■ Refer to page 590~591 for details



INSPECTION CERTIFICATE



lens with coaxial light (optional, must be installed in factory)



probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10µm



ISD-V250A

computer is included

VISION MEASURING SYSTEMS (MANUAL TYPE)

SPECIFICATION

JI LOII IOATION			1 X190 X		
Code	ISD-V150A	ISD-V250A	ISD-V300A	ISD-V400A	
Measuring range (X×Y×Z)	150×100×150mm	250×150×150mm	300×200×150mm	400×300×150mm	
Stage size	354×228mm	450×280mm	500×330mm	606×466mm	
Glass stage size	210×160mm	306×196mm	350×250mm	450×350mm	
Resolution of X/Y/Z axis	0.5µm				
Accuracy of X/Y axis	≤(3.5+L/100)µm (L i	s the measuring lengtl	n in mm)		
Repeatability of X/Y axis	2µm				
Objective	0.7X~4.5X (zoom)				
Working distance	92mm				
Magnification	33X~195X (on 19" monitor)				
Camera	1/3" color CCD, 0.3M pixel				
Illumination	surface and contour with adjustable LED				
Max. height of workpiece	150mm				
Max. weight of workpiece	20kg				
Operation system	Windows 7/8/10				
Drive method	manual				
Power supply	110/220V, 50/60Hz				
Dimension (L×W×H)	560×540×850mm	760×600×900mm	760×600×900mm	970×670×940mm	
Weight	100kg	120kg	140kg	240kg	

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Foot switch	1 pc
Anti-dust cover	1 pc

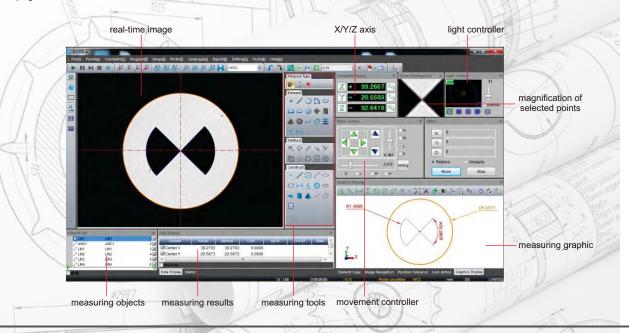
OPTIONAL ACCESSORY

1	0.5X auxiliary objective	code: ISD-V-OB05X working distance: 175mm magnification: 16.5~97.5X (on 19" monitor)
	2X auxiliary objective	code: ISD-V-OB2X working distance: 36mm magnification: 66~390X (on 19" monitor)
	Probe	code: ISD-V-PROBE includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
	Vision measuring system with coaxial light lens (with computer)	code: ISD-V150ACL, ISD-V250ACL, ISD-V300ACL, ISD-V400ACL
	Office software	code: 7313-OFFICE

To be continued

SOFTWARE (INCLUDED)

■ Refer to page 590~591 for details



CNC VISION MEASURING SYSTEMS (WITH STAND)

MOTORIZED ZOOM
OBJECTIVE IS OPTIONAL



lens with coaxial light (included)



programmable segmented ring light (included)



software flash disk (included)

- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc. Servo motors for X, Y, Z axis Granite body, more stable

- SPC function for large quantity measurement
- Measuring software is included (page 590~591)

STANDARD DELIVERY

1 pc
1 pc



ISD-E320

SPECIFICATION

Code		ISD-E320	ISD-E430		
Measuring range (X×Y×Z)		300×200×200mm	400×300×200mm		
Stage size		556×406mm	561×556mm		
Glass stage siz	ze .	350×250mm	450×350mm		
Resolution of)	K/Y/Z axis	0.5µm			
Accuracy of X/	Y axis	≤(2.5+L/200)µm (L is measuring length in mm)	≤(3.5+L/200)µm (L is measuring length in mm)		
Repeatability o	of X/Y axis	2µm			
Objective (man	iual zoom)	0.7X~4.5X (zoom)			
Working distan	ice	92mm			
View field (diag	gonal length)	1.7~11.1mm			
Magnification		33X~208.6X (on 24" monitor)			
Camera		giga-bit network camera			
Illumination	surface	coaxial light, programmable segmented ring light			
mummation	contour	adjustable LED light			
Max. height of	workpieces	200mm			
Max. weight of	workpieces	30kg			
Operation system		Windows 7/8/10			
Drive method		automatic			
Power supply		220V, 50/60Hz			
Dimension (L×	W×H)	1420×915×1830mm	1650×1170×1900mm		
Weight		500kg	700kg		

OPTIONAL ACCESSORY

0.5X auxiliary objective	code: ISD-V-OB05X working distance: 175mm magnification: 16.5~104.3X (on 24" monitor)
2X auxiliary objective	code: ISD-V-OB2X working distance: 36mm magnification: 66~417.2X (on 24" monitor)
Probe	code: ISD-V-PROBE includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Office software	code: 7313-OFFICE
Laser probe	code: ISD-V-LASER



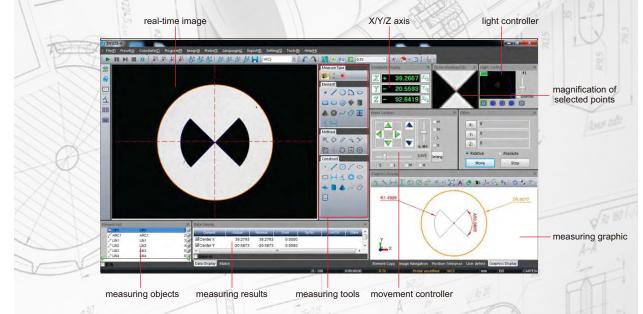
probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10µm



laser probe (**optional**) measuring accuracy is 5µm

SOFTWARE (INCLUDED)

■ Refer to page 590~591 for details



CNC VISION MEASURING SYSTEMS







- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
 Servo motors for X, Y, Z axis
 SPC function for large quantity measurement
 Measuring software is included (page 590~591)

SPECIFICATION

SPECIFIC	<u> PALIOIT</u>				1.00			1
Code	motori	zed zoom lens	ISD-V220ZA	ISD-V220ZHN	ISD-V270ZA	ISD-V270ZHN	ISD-V370ZA	ISD-V370ZHN
	manua	l zoom lens	ISD-V220CNCA	ISD-V220HN	ISD-V270CNCA	ISD-V270HN	ISD-V370CNCA	ISD-V370HN
Measuring range (X×Y×Z)		220×120 ×150mm	220×120 ×300mm	270×170 ×150mm	270×170 ×300mm	370×270 ×150mm	370×270 ×300mm	
Stage s	size		450×280mm	450×280mm	500×330mm	500×330mm	606×466mm	606×466mm
Glass s	stage siz	ze	306×196mm	306×196mm	350×250mm	350×250mm	450×350mm	450×350mm
Resolu	tion of 〉	(/Y/Z axis	0.5µm					
Accura	cy of X/	Y axis	≤(2.5+L/100)µm (L is the measuring length in mm)				≤(3.5+L/100)µm (L is the measuring length in mm)	
Repeat	ability o	f X/Y axis	2μm					
Objecti	ive		0.7X~4.5X (zoom)					
Working distance		92mm						
Magnif	ication		33.0X~208.6X (with manual zoom lens, on 24" monitor)					
magnification		31.9X~188.7X (with motorized zoom lens, on 24" monitor)						
Camera		giga-bit network camera						
Illumina	otion	surface	coaxial light, programmable segmented ring light					
IIIuIIIII	ation	contour	adjustable LED light					
View field (diagonal length)		gonal length)	1.5~10.8mm					
Max. height of workpiece		workpiece	150mm	300mm	150mm	300mm	150mm	300mm
Max. weight of workpiece		30kg						
Operation system		Windows 7/8/10						
Drive method		automatic						
Power supply		220V, 50/60Hz						
Dimension (L×W×H)		760×600 ×900mm	760×600 ×1050mm	760×600 ×900mm	760×600 ×1050mm	970×670 ×940mm	970×670 ×1090mm	
Weight			146kg	156kg	168kg	178kg	266kg	276kg



software flash disk (included)

desk (optional)



laser probe (**optional**) measuring accuracy is 5µm

STANDARD DELIVERY

1 pc
1 pc





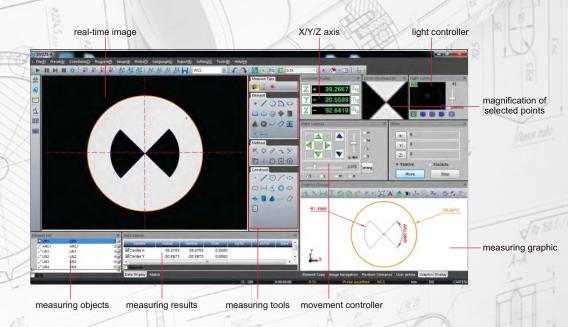
probe (optional), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10µm

OPTIONAL ACCESSORY

0.5X auxiliary objective	code: ISD-V-OB05X, working distance: 175mm magnification: 16.5~104.3X (with manual zoom lens, on 24" monitor), 16.0~94.4X (with motorized zoom lens, on 24" monitor)
code: ISD-V-OB2X, working distance: 36mm magnification: 66~417.2X (with manual zoom lens, on 24" monitor), 63.8~377.4X (with motorized zoom lens, on 24" monitor)	
Probe	code: ISD-V-PROBE, includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Laser probe code: ISD-V-LASER	
Office software code: 7313-OFFICE	
Desk	code: ISD-V-DESK

SOFTWARE (INCLUDED)

■ Refer to page 590~591 for details



CNC VISION MEASURING SYSTEMS





computer is included

ISD-V500N

- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
 Servo motors for X, Y, Z axis
 SPC function for large quantity measurement

SPECIFICATION

Code		ISD-V500N	ISD-V501N	ISD-V500HN	ISD-V501HN		
Measuring range (X×	(×Z)	470×370×200mm	500×400×200mm	470×370×400mm	500×400×400mm		
Stage size		786×636mm	846×696mm	786×636mm	846×696mm		
Glass stage size		570×470mm					
Resolution of X/Y/Z a	xis	0.5µm					
Accuracy of X/Y axis		≤(2.5+L/200)µm (L is n	neasuring length in mm)				
Repeatability of X/Y a	xis	2µm					
Objective		0.7X~4.5X (zoom)					
Working distance		92mm					
View field (diagonal le	ength)	1.5~10.8mm					
Magnification		33.0X~208.6X (on 24" monitor)					
Camera		giga-bit network camera					
Illumination	surface	coaxial light, programmable segmented ring light					
illullillation	contour	adjustable LED light					
Max. height of workpi	eces	200mm	200mm 400mm				
Max. weight of workp	ieces	30kg					
Operation system		Windows 7/10					
Drive method		automatic					
Power supply		220V, 50/60Hz	220V, 50/60Hz				
Dimension (L×W×H)		1270×1200×1870mm	1405×1260×1870mm	1270×1200×2070mm	1405×1260×2070mm		
Weight		870kg	1000kg	900kg	1030kg		
11		100	111		and the same of th		

STANDARD DELIVERY

Main unit	1 pc
Video card with dongle	1 pc
Software disc	1 pc
Lens with coaxial light	1 pc
Controller	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Anti-dust cover	1 pc



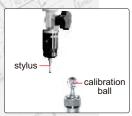
lens with coaxial light (included)



programmable segmented ring light (included)

OPTIONAL ACCESSORY

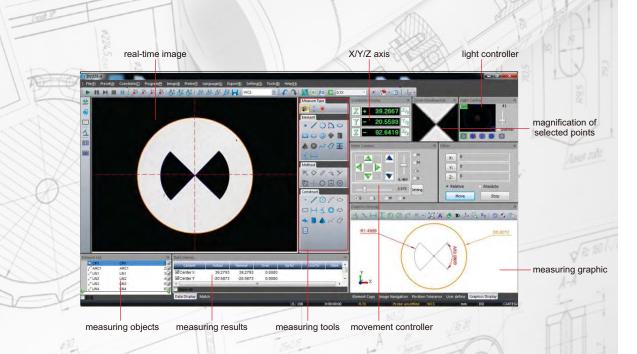
0.5X auxiliary objective	code: ISD-V-OB05X working distance: 175mm magnification: 16.5~104.3X (on 24" monitor)
2X auxiliary objective	code: ISD-V-OB2X working distance: 36mm magnification: 66~417.2X (on 24" monitor)
Probe	code: ISD-V-PROBE includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Office software	code: 7313-OFFICE



probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10µm

SOFTWARE (INCLUDED)

■ Refer to page 590~591 for details



CNC VISION MEASURING SYSTEMS

MOTORIZED ZOOM
OBJECTIVE IS OPTIONAL





- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
 Servo motors for X, Y, Z axis, X, Y axis adopt linear guide rail structure, without air supply
 Fixed glass table and granite platform base, good stability
 SPC function for large quantity measurement

- Measuring software is included (page 590~591)

SPECIFICATION

Code VMM-L600CN VMM-L601CN VMM-L800CN Measuring range (X*Y*Z) 600×600×200mm 600×900×200mm 800×1000×200mm Glass stage size 765×1238mm 702×1543mm 902×1643mm Resolution of X/Y/Z axis 0.5µm				VIII			
Glass stage size 765×1238mm 702×1543mm 902×1643mm Resolution of X/Y/Z axis 0.5µm Accuracy of X/Y axis ≤(3.5+L/200)µm (L is measuring length in mm) Repeatability of X/Y axis 2µm Objective (manual zoom) 0.7X~4.5X (zoom) Working distance 92mm View field (diagonal length) 1.7~11.1mm Magnification 33.0X~208.6X (on 24" monitor) Camera giga-bit network camera Illumination surface coaxial light, programmable segmented ring light contour adjustable LED light Max. height of workpiece 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	Code		VMM-L600CN	VMM-L601CN	VMM-L800CN		
Resolution of X/Y/Z axis 0.5μm Accuracy of X/Y axis ≤(3.5+L/200)μm (L is measuring length in mm) Repeatability of X/Y axis 2μm Objective (manual zoom) 0.7X~4.5X (zoom) Working distance 92mm View field (diagonal length) 1.7~11.1mm Magnification 33.0X~208.6X (on 24" monitor) Camera giga-bit network camera Illumination surface coaxial light, programmable segmented ring light contour adjustable LED light Max. height of workpiece 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	Measuring range (X×Y×Z)		600×600×200mm	600×900×200mm	800×1000×200mm		
Accuracy of X/Y axis S(3.5+L/200)µm (L is measuring length in mm) Repeatability of X/Y axis 2µm Objective (manual zoom) Working distance 92mm View field (diagonal length) Magnification Camera Surface contour contour adjustable LED light Max. height of workpiece Max. weight of workpiece Operation system Drive method Power supply Surface Surface Contour Accidentification Surface Contour Adjustable LED light Windows 7/8/10 Accidentification Accidentification Surface Contour Adjustable LED light Windows 7/8/10 Accidentification Accidentification Surface Contour Adjustable LED light Windows 7/8/10 Accidentification Accidentification Surface Contour Adjustable LED light Windows 7/8/10 Accidentification Accidentification Surface Contour Adjustable LED light Accidentification Accidentification Accidentification Surface Contour Adjustable LED light Accidentification Accidentification Surface Contour Adjustable LED light Accidentification Accidentificatio	Glass stage size		765×1238mm	702×1543mm	902×1643mm		
Repeatability of X/Y axis Objective (manual zoom) O.7X~4.5X (zoom) Working distance 92mm View field (diagonal length) 1.7~11.1mm Magnification Camera giga-bit network camera coaxial light, programmable segmented ring light contour adjustable LED light Max. height of workpiece Operation system Windows 7/8/10 Drive method Power supply O.7X~4.5X (zoom) 0.7X~4.5X (zoom) 92mm 33.0X~208.6X (on 24" monitor) coaxial light, programmable segmented ring light dight windows 7/8/10 automatic Power supply AC 220V, 50/60Hz	Resolution of X/Y/Z axis		0.5µm				
Objective (manual zoom) Working distance 92mm View field (diagonal length) Magnification Camera Surface contour dijustable LED light Max. height of workpiece Max. weight of workpiece Operation system Drive method Power supply 0.7X~4.5X (zoom) 0.7X~4.5X (zoom) 92mm 1.7~11.1mm 33.0X~208.6X (on 24" monitor) Camera giga-bit network camera coaxial light, programmable segmented ring light adjustable LED light 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 AC 220V, 50/60Hz	Accuracy of X/Y axis		≤(3.5+L/200)µm (L is measuring	length in mm)			
Working distance 92mm View field (diagonal length) 1.7~11.1mm Magnification 33.0X~208.6X (on 24" monitor) Camera giga-bit network camera Illumination surface coaxial light, programmable segmented ring light contour adjustable LED light Max. height of workpiece 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	Repeatability of	of X/Y axis	2μm				
View field (diagonal length) 1.7~11.1mm Magnification 33.0X~208.6X (on 24" monitor) Camera giga-bit network camera Illumination surface coaxial light, programmable segmented ring light Max. height of workpiece 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	Objective (manual zoom)		0.7X~4.5X (zoom)				
Magnification Camera giga-bit network camera giga-bit network camera surface coaxial light, programmable segmented ring light contour adjustable LED light Max. height of workpiece 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	Working distance		92mm				
Camera giga-bit network camera lllumination surface coaxial light, programmable segmented ring light contour adjustable LED light Max. height of workpiece 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	View field (diagonal length)		1.7~11.1mm				
Surface coaxial light, programmable segmented ring light Max. height of workpiece 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	Magnification		33.0X~208.6X (on 24" monitor)				
Illumination contour adjustable LED light Max. height of workpiece 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	Camera		giga-bit network camera				
contour adjustable LED light Max. height of workpiece 200mm Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	Illumination	surface	coaxial light, programmable segmented ring light				
Max. weight of workpiece 35kg Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	mammation	contour	adjustable LED light				
Operation system Windows 7/8/10 Drive method automatic Power supply AC 220V, 50/60Hz	Max. height of	workpiece	200mm				
Drive method automatic Power supply AC 220V, 50/60Hz	Max. weight of	workpiece	35kg				
Power supply AC 220V, 50/60Hz	Operation syst	tem	Windows 7/8/10				
	Drive method		automatic				
Dimension (L×W×H) 1445×1185×1560mm 1745×1220×1720mm 1850×1420×1720mm	Power supply		AC 220V, 50/60Hz				
	Dimension (L×	:W×H)	1445×1185×1560mm	1745×1220×1720mm	1850×1420×1720mm		
Weight 1000kg 1400kg 2200kg	Weight		1000kg	1400kg	2200kg		

To be continued

SPECIFICATION

Code		VMM-L1000CN	VMM-L1001CN	VMM-L1200CN			
Measuring rar	nge (X×Y×Z)	1000×1200×200mm	1000×1500×200mm	1200×1500×200mm			
Glass stage s	ize	1100×1831mm	1100×2113mm	1300×2113mm			
Resolution of	X/Y/Z axis	0.5µm					
Accuracy of X	//Y axis	≤(3.5+L/200)µm (L is measu	uring length in mm)				
Repeatability	of X/Y axis	2μm					
Objective(mai	nual zoom)	0.7X~4.5X (zoom)					
Working dista	ince	92mm					
View field (dia	gonal length)	1.7~11.1mm	1.7~11.1mm				
Magnification		33.0X~208.6X (on 24" monitor)					
Camera		giga-bit network camera					
Illumination	surface	coaxial light, programmable	segmented ring light				
illummation	contour	adjustable LED light	adjustable LED light				
Max. height o	f workpiece	200mm	200mm 30kg				
Max. weight o	f workpiece	30kg					
Operation sys	tem	Windows 7/8/10	Windows 7/8/10				
Drive method		automatic	automatic				
Power supply		AC 220V, 50/60Hz	AC 220V, 50/60Hz				
Dimension (L:	×W×H)	2035×1590×1720mm	2315×1590×1720mm	2315×1790×1720mm			
Weight		2900kg	3200kg	4000kg			







lens with coaxial light (included)

STANDARD DELIVERY

1 pc 1 pc 1 pc 1 pc 1 pc
1 pc 1 pc
1 pc
•
1 nc
i po
1 pc



probe (optional), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10µm



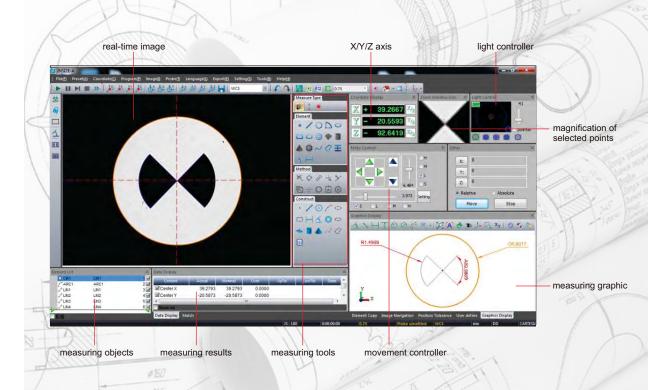
laser probe (optional) measuring accuracy is 5µm

OPTIONAL ACCESSORY

	The State of the S
0.5X auxiliary objective	code: ISD-V-OB05X working distance: 175mm magnification: 16.5~104.3X (on 24" monitor)
2X auxiliary objective	code: ISD-V-OB2X working distance: 36mm magnification: 66~417.2X (on 24" monitor)
Probe	code: ISD-V-PROBE includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Laser probe	code: ISD-V-LASER
Office software	code: 7313-OFFICE

VISION MEASURING SOFTWARE

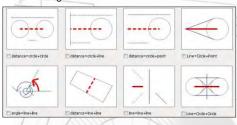
SOFTWARE FOR VISION MEASURING SYSTEMS ISD-V SERIES, ISD-H SERIES, ISD-VMM SERIES, ISD-E SERIES AND VMM-L SERIES



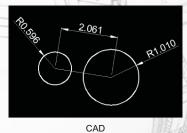
- Operation system: Windows 7/10
- Language: Énglish
- Control features: assistant focus (manual machines), auto focus (CNC machines), auxiliary light control, motion controlled by mouse (CNC machines), auto zoom lens (CNC machines)
- Image measuring methods: intelligent automatic edge detect, select points of an area, select points from multiple parts, select points via mouse, select adjacent points, select points via cross line, magnify to select points, comparatively select points, select points via probe, edge point, contour point
- Constructable elements: point, line, circle, arc, ellipse, rectangle, distance, angle, ring, slot, plane, cone, open curve, closed curve
- Support fixture (CNC machines), scanning, image navigation, user define, pixel calibration Measuring by image and probe, image and probe can be synchronized Measuring data can be sent to Excel, Word, SPC, measuring elements can be sent to dxf

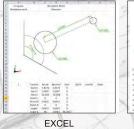
24

■ Di	mension measuri	ng tools:			
•	point	line	circle	ring ellipse	rectangle
\sim	open curve	closed curve	distance angle	focus plane slot	plane (probe)
	sphere (probe)	cone (probe)	cylinder (probe)	A A SS	
■ G	eometric measurii	ng tools:	1 J	8 9	√RI 150 (V)
\bigoplus	position	parallelism	squareness angularity	symmetry concentricity	coaxiality (probe)
			N.N.	70°	7



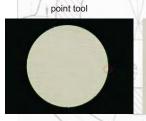
■ Sent to CAD, EXCEL, WORD



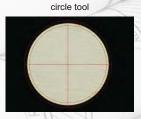




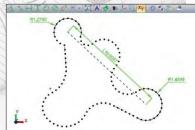
Edge-detection:



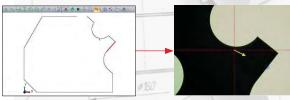
box tool



Contour scanning:

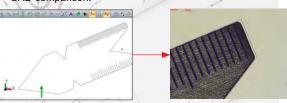


CAD measuring:



import CAD drawing, set the datum, establish coordinate system, then the software will automatically measure

CAD comparison:

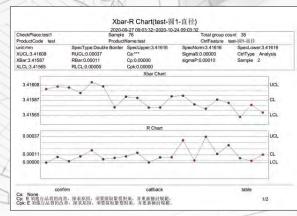


import CAD drawing, then compare with real-time image

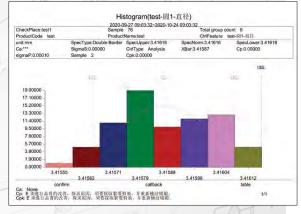
Profile scanning:



■ SPC analysis, import the measuring data to SPC module, generate Xbar-R chart, Xbar-S chart, Mid-R chart, X-Rs chart, Histogram, Sigma A and Sigma S chart, Cpk process chart, Process state analyse chart, Single proscess advice analyse chart



Xbar-R chart



Histogram

JIG SET FOR VISION MEASURING SYSTEMS CODE ISY-700



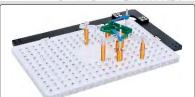




acrylic tray (included)

ISY-700





Product	Code	Size (mm)	Quantity
clip	ISY-700-90001	7×34	4
clip	ISY-700-90002	Ø1.5×24	4
	ISY-700-90003	Ø1.5×50	4
clip stand	ISY-700-90004	Ø4×20	8
**	ISY-700-90005	Ø4×46	3
spherical support head	ISY-700-90006	_	4
stand	ISY-700-90007	Ø6×10	6
	ISY-700-90008	Ø6×25	6
	ISY-700-90019	Ø6×6	3
stand	ISY-700-90009	Ø9×7	3
	ISY-700-90010	Ø9×10	6
30072	ISY-700-90011	Ø9×20	6
	ISY-700-90012	Ø9×25	6
stand	ISY-700-90013	Ø12×10	6
200	ISY-700-90014	Ø12×25	6
stand for slice	ISY-700-90015	Ø6×10	4
parts	ISY-700-90016	Ø9×10	4
-	ISY-700-90017	Ø12×10	4
stand with fine adjustment	ISY-700-90018	Ø12×20~25	2

	Product	Code	Size (mm)	Quantity
Section of	adapter for square support	ISY-700-90020	-	2
	clamping screw	ISY-700-90021	-	4
Charlen Comment	L-shaped positioning plate	ISY-700-90022	50×50×6	1
-	sliding support plate	ISY-700-90023	30×12×5	4
	square support	ISY-700-90024	20×16×16	1
	base for square support	ISY-700-90025	45×16×6	1
	spring stand	ISY-700-90026	-	1
	acrylic sliding support plate	ISY-700-90028	45×12×5	8
	wrench	ISY-700-90029	M3	1
	acrylic base plate	ISY-700-90030	300×200×12 Hole size: M4X0.7	1

ISD-CL300A

 To calibrate optical measuring instruments, also can be used as optical positioning elements in precision machine tools

STANDARD TYPE

TAILDAND ITE						
Code	Measuring range	Graduation	Length	Width	Thickness	Accuracy
ISD-CL100A	100mm	1mm	130mm	30mm	5mm	1µm
ISD-CL200A	200mm	1mm	230mm	30mm	5mm	1µm
ISD-CL300A	300mm	1mm	330mm	30mm	5mm	1µm
ISD-CL400A	400mm	1mm	430mm	30mm	5mm	1µm
ISD-CL500A	500mm	1mm	530mm	30mm	5mm	2um

ECONOMIC TYPE

Code	Measuring range	Graduation	Length	Width	Thickness	Accuracy
ISD-CL100B	100mm	1mm	130mm	30mm	5mm	3µm
ISD-CL200B	200mm	1mm	230mm	30mm	5mm	3µm
ISD-CL300B	300mm	1mm	330mm	30mm	5mm	3µm
ISD-CL400B	400mm	1mm	430mm	30mm	5mm	3µm
ISD-CL500B	500mm	1mm	530mm	30mm	5mm	3µm

PROFESSIONAL TYPE (The scale is between two layers of glass and will not be worn off)

Code	Measuring range	Graduation	Length	Width	Thickness	Accuracy
ISD-CL100S	100mm	1mm	130mm	30mm	10mm	1µm
ISD-CL200S	200mm	1mm	230mm	30mm	10mm	1.5µm
ISD-CL300S	300mm	1mm	330mm	30mm	15mm	2.5µm
ISD-CL400S	400mm	1mm	430mm	30mm	15mm	3µm
ISD-CL500S	500mm	1mm	530mm	30mm	15-25mm	3.5µm



MICROSCOPES, MAGNIFIERS



Toolmaker Microscopes Page 595-596



Digital Microscopes Page 597-635



Cutting Tools Microscopes Page 622



Industrial Microscopes Page 636-637



Metallurgical Microscopes Page 638-641



Zoom Stereo Microscopes Page 642-648



Polarizing Microscopes Page 649



Digital Cameras For Microscopes Page 650-658



Metallurgical Analysis Softwares Page 657-658



Portable Measuring Microscopes Page 659



Table Magnifiers With Illumination Page 660



Digital Magnifiers Page 661-662



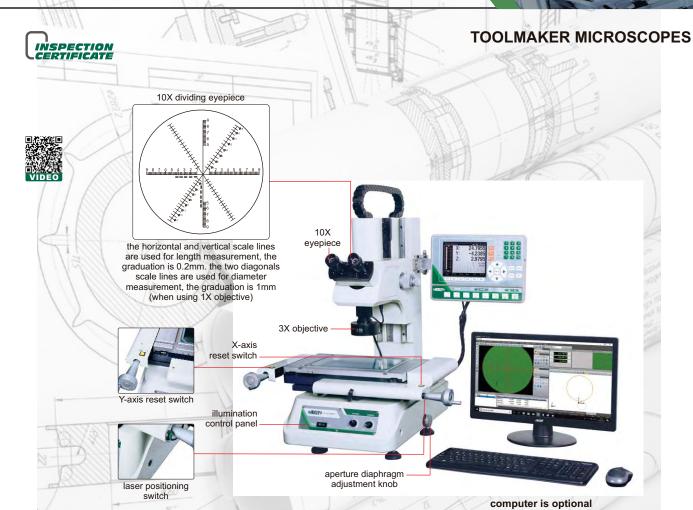
Magnifiers Page 663-667



Telescoping Inspection Mirrors Page 667



Telescoping Pick-up Page 668



SPECIFICATION

Code	binocular	ISD-VMM205	ISD-VMM215	ISD-VMM225	ISD-VMM235	
	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 stage 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 t	≤(3.5+L/100)µm (L is the measuring length in mm)			
Repeatability 2µm						
Camera		1/3" color CCD, 0.3M pixel				
Optical magnification 30X (with 3X objective)						
Image magnification		114X (on 19" monitor)	114X (on 19" monitor)			
Illumination		surface and contour w	surface and contour with adjustable LED			
Max. weig	ght of workpiece	25kg	25kg			
Power su	pply	100V~240V, 50/60Hz	100V~240V, 50/60Hz			
Operation	ı system	Windows 7/8/10	Windows 7/8/10			
Drive met	thod	manual	manual			
Dimensio	n (L×W×H)	540×667×850mm	540×667×850mm	800×675×920mm	800×675×920mm	
Weight		100kg	110kg	135kg	140kg	

ISD-VMM215

To be continued

Continued from previous page

DATA PROCESSING UNIT

RS232	S
simple measuring tools	
measure coordinate of points	Valent
measure lines	
measure center coordinate, radius of circle with three points	
measure distances betwen two objects	3
measure angles	1
<u>⊬</u> set origin of coordinate	
skew and calibrate the workpiece	
क्रिके measure rectangle (including length, width, perimeter and center coordinate)	1
measure thread (including thread diameter, screw pitch, screw angle)	3.65
measure slot (including center coordinate, length, width)	-
	simple measuring tools measure coordinate of points measure lines measure center coordinate, radius of circle with three points measure distances betwen two objects measure angles set origin of coordinate skew and calibrate the workpiece measure rectangle (including length, width, perimeter and center coordinate) measure thread (including thread diameter, screw pitch, screw angle)

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

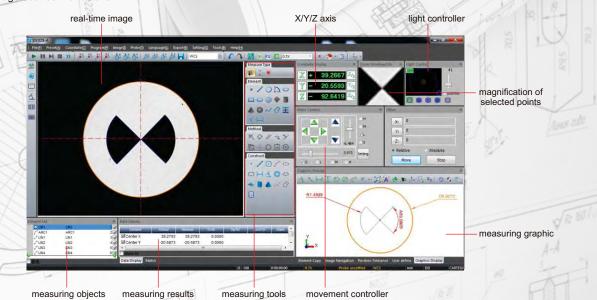
OPTIONAL ACCESSORY

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)

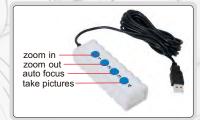
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■ Refer to page 590~591 for details





- Auto focus camera
- Take pictures and videos
- Can be connected to TV (HDMI port) and computer (RJ45 port) at the same time
- Built-in measuring software for TV
- Measuring software for computers is included
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display cross hair (blue/green/red /yellow/black/brown colors)



controller (optional, for TV)

focus Click F MF auxiliary tools ď measuring tools 0 10 1 0 Name default • 🗁 🗷 💥 calibration Unit mm • Bits: 1 • 🕀 2 • Pos: Right Down . Scale Show cross hair

.

optical zoom adjustment

TV SOFTWARE (INCLUDED)

SPECIFICATION

Code	5302-AF105 (standard type)	5302-AF108 (high-definition type)	
Pixel	2M	8M	
Resolution	1920×1080	3840×2160	
Magnification	1.4X~25.8X (on 28" TV)	1.4X~51.6X (on 28" TV)	
Sensor	1/2.8" CMOS		
Auto focus distance	100mm~∞		
Output	HDMI, RJ45		
Frame rate	HDMI: 60fps, RJ45: 50fps		
Power supply	power adapter		
Dimension (L×W×H)	500×280×410mm		
Weight	17kg		

VIEW FIELD

Focus distance	Adjustable magnification (on 28" TV)	View field
100mm	3.9~25.8X	24×14~168×91mm
150mm	2.6~20X	30×17~240×128mm
200mm	2.1~17X	37×20~315×170mm
250mm	1.7~14.7X	42×24~385×210mm
270mm	1.4~14X	43×25~415×225mm

MEASURING ACCURACY

//4-	
Optical magnification (5302-AF108)	Measuring accuracy
2X	±0.1mm
4X	±0.1mm
6X	±0.04mm
8X	±0.02mm
14X	±0.02mm
28X	±0.02mm
	(5302-AF108) 2X 4X 6X 8X 14X

STANDARD DELIVERY

Main unit (with stand)	1 pc
LED illumination	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
HDMI cable (for TV)	1 pc
Network cable (for computer)	1 pc
Switch	1 pc
Software for computer	1 pc
Power adapter	2 pcs

OPTIONAL ACCESSORY

28" 4K TV	5302-AF-TV28
32" 4K TV	5302-AF-TV32
Computer	5302-AF-COMPUTER
Controller	5302-AF-CONTROLLER

HIGH-DEFINITION AUTO FOCUS DIGITAL MICROSCOPE (LARGE VIEW FIELD) **CODE 5320-AF410**

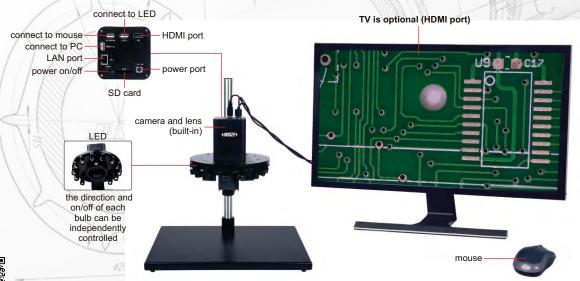
AUTO FOCUS

MEASUREMENT

TAKE PICTURES AND VIDEOS

LED INDEPENDENT ADJUSTMENT

CAN BE CONNECTED TO PC AND TV AT THE SAME TIME





- Auto focus camera
- Take pictures and videos
- Built-in measuring software
- Automatic exposure, sharpening, denoising and white balance
- 4K/1080P automatically switched by display resolution
- Display actual magnification
- Digital magnification
- Motorized light control
- Display cross hair and gridline



can be connected to PC and TV at the same time

SPECIFICATION

Magnification (on 28" TV)	2.4X~43.7X
View field	14.2×8~255×145mm
Auto focus distance	200~255mm
Sensor	1/2.8" CMOS
Pixel	8M
Resolution	3840×2160
Frame rate	30fps
Output	HDMI/USB/LAN
Power supply	power adapter
Dimension (L×W×H)	400×300×450mm
Weight	5.8kg

STANDARD DELIVERY

O I A A B D D D D D D D D D D D D D D D D D	// MV LP 1 1 X 2
Main unit (with stand)	1 pc
LED illumination	1 pc
32G memory card and holder	1 pc
Mouse	1 pc
HDMI cable	1 pc
USB 2.0 cable	1 pc
Power adapter	1 pc

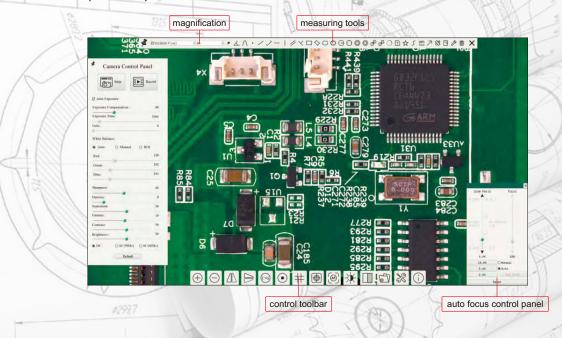
MEASURING ACCURACY (ON 28" TV)

Optical magnification	Measuring accuracy
2X	±0.1mm
4X	±0.1mm
6X	±0.04mm
10X	±0.02mm
14X	±0.02mm
18X	±0.01mm

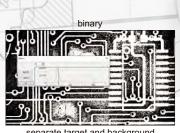
To be continued



SOFTWARE FOR TV (INCLUDED)



PROFESSIONAL SOFTWARE (INCLUDED, FOR COMPUTER)

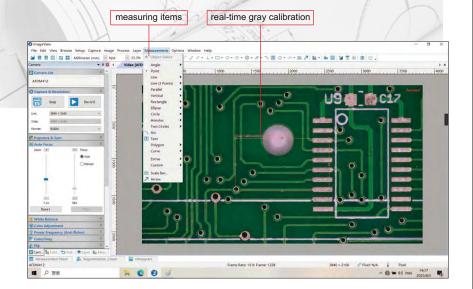


separate target and background

3D plot



visualize the distribution of image brightness and color



selectable resolution



histogram (quantify the distribution of color and brightness)



white balance (reduce color difference)



flat field balance (reduce brightness difference)

Capture	Quantity: 5
port	Export
	· ·

dark field balance (reduce thermal noise)



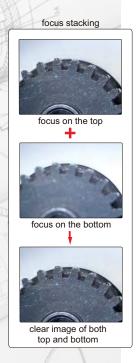
the software can control image completely, including measurement, image stitching, image gray processing, RGB histogram observation, image color sampling, 3D plot (3D representation of image intensity), image exposure, white balance, image bit depth, flat field correction and dark field correction, etc.

HIGH-DEFINITION AUTO FOCUS MEASURING MICROSCOPE CODE 5315-S710

IMAGE STITCHING DUAL SCREEN OPERATION 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)

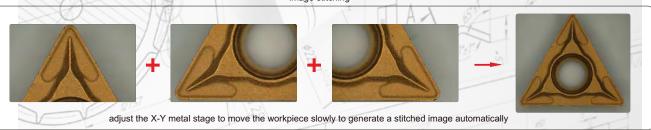




X-Y metal stage (included) (X-Y travel: 100×86mm)



image stitching



To be continued

Continued from previous page

SPECIFICATION

Magnification	15X~100X (on 13.3" LCD)	
Sensor	1/1.7" CMOS	
Pixel	12M	
Resolution	1920×1080	
Frame rate	30fps	
Output	HDMI/USB	
Power supply	power adapter	
Dimension (L×W×H)	570×300×430mm	

VA 4 1

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

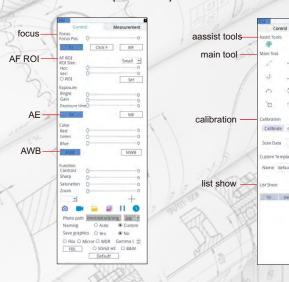
OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
Computer	ISM-DL-COMPUTER
LED light	page 626~627
Auxiliary objective	page 628

MAGNIFICATION AND MEASURING ACCURACY (on 13.3" LCD)

,		
Objective magnification	Image magnification	Measuring accuracy
0.75X	15X	±20µm
1X	20X	±20µm
1.5X	30X	±20µm
2X	40X	±20µm
2.5X	50X	±20µm
3X	60X	±20µm
3.5X	70X	±20µm
4X	80X	±10µm
4.5X	90X	±10µm
5X	100X	±10µm

SOFTWARE FOR LCD (INCLUDED)



SOFTWARE FOR COMPUTER (INCLUDED)



25

0°

X DEDL

Export Data

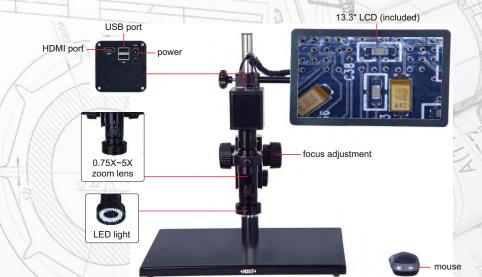
AUTO FOCUS DIGITAL MICROSCOPE CODE 5303-AF103

AUTO FOCUS

TAKE PICTURES AND VIDEOS

MEASUREMENT







16G USB flash disk



0.5X camera adapter (included)



1X auxiliary objective



(included)



- 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)



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



1X camera adapter (optional)



2X auxiliary objective (optional)





SPECIFICATION

OI LOII IOATION	7.	
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
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	2 pcs

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

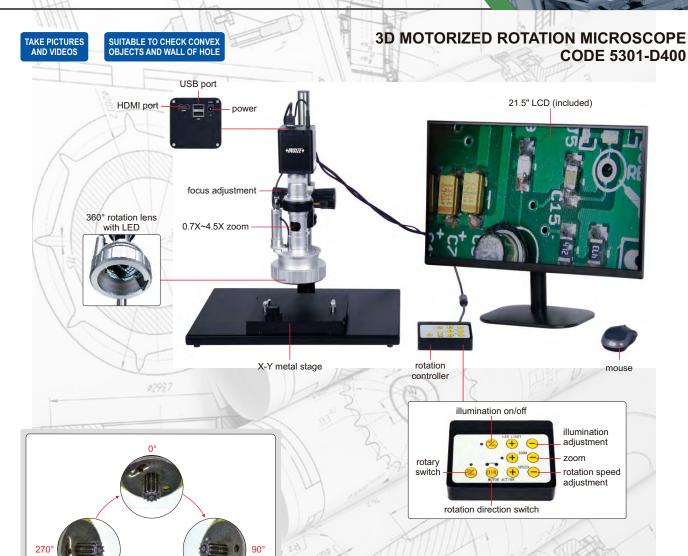
Š	Auxiliary	Specification	Camera adapter	
	objective	Specification	0.5X (included)	1X (optional)
1		magnification	20~123X	40~246X
	1X	focus distance	48~84mm	48~84mm
	(included)	view field	13×7~2.2×1mm	6.3×3.5~1.1×0.5mm
	measuring accuracy	±0.02mm	±0.02mm	
		magnification	40~246X	80~492X
	2X	focus distance	24~42mm	24~42mm
((optional)	view field	6.5×3.5~1.1×0.5mm	3.3×1.8~0.6×0.3mm
1		measuring accuracy	±0.02mm	±0.02mm

AUTO FOCUS DISTANCE

			.7%		
Zoom objective scale	0.75X	1X	1.5X	2X	2.5X
Auto focus distance (mm)	48~84	50~78	55~73	62~71	65~70
Zoom objective scale	3X	3.5X	4X	4.5X	5X
Auto focus distance (mm)	66~70	67~70	68~70	68~70	68~70

OPTIONAL ACCESSORY

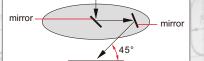
1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 100×86mm)	ISM-DL-STAGE
X-Y metal stage	ISM-DL-STAGE1
LED light	page 626~627
Auxiliary objective	page 628





OI LOII IOATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Magnification	15X~100X	
View field 4.2×2.7mm~28×18mm		
Focus distance	40mm	
View angle	45°	
Sensor	1/2.8" CMOS	
Pixel	2M	
Resolution	1920×1080	
Frame rate	60fps	
Output	HDMI	
Rotation speed	2~4RPM	
Power supply	110/220V, 50/60Hz	
Dimension (L×W×H)	570×300×430mm	
Weight	10kg	
	10	

360° rotation observation



working principle

camera

workpiece

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

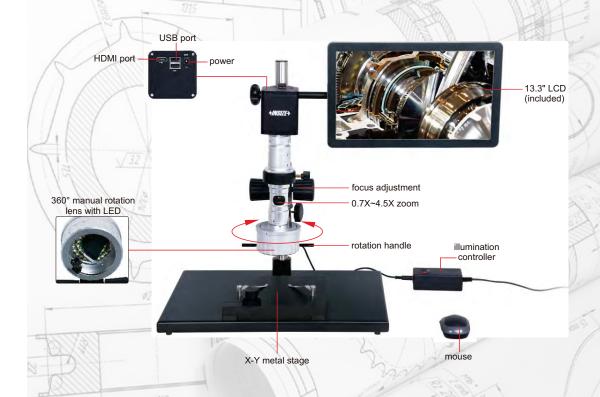
STANDARD DELIVERY

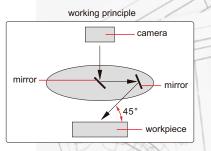
Main unit	1 pc
Rotation controller	1 pc
X-Y metal stage	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
Power adapter	2 pcs



TAKE PICTURES AND VIDEOS

SUITABLE TO CHECK CONVEX OBJECTS AND WALL OF HOLES





270° 90°

360° rotation observation

SPECIFICATION

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

STANDARD DELIVERY

OTANDARD 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	

604

DIGITAL MEASURING MICROSCOPE (BASIC TYPE) CODE 5318-MD60







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

SPECIFICATION

Magnification	12.5X~80X	
Sensor	1/2.8" CMOS	
Pixel	2M	
Resolution	1920×1080	
Frame rate	60fps	
Measuring accuracy	±0.02mm	
Lines	cross lines, scale lines (number, color and position of lines are adjustable)	
Output	HDMI	
Power supply	power adapter	
Dimension (L×W×H)	380×260×350mm	
Weight	4.5kg	
	150	



16G USB flash disk (included)



white/black plate (included)



glass calibration rule (graduation 0.1mm, included)

MAGNIFICATION AND VIEW FIELD

Auxiliary	Specification	Camera adapter
objective	Specification	0.5X (included)
0.5X (optional)	magnification	6.2~40X
U.SA (Optional)	view field	47×26~7.4×4mm
1X (included)	magnification	12.5~80X
IX (IIIcidded)	view field	23.5×13~3.7×2mm
2X (optional)	magnification	25~160X
	view field	11.8×6.5~1.8×1mm

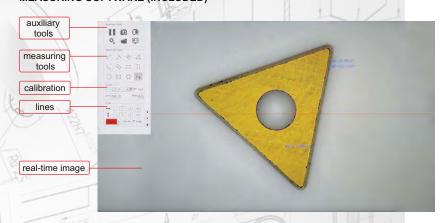
STANDARD DELIVERY

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

OPTIONAL ACCESSORY

0.5X auxiliary objective	5318-OB05X
2X auxiliary objective	5318-OB2X

MEASURING SOFTWARE (INCLUDED)



DIGITAL MEASURING MICROSCOPES

BUILT-IN SOFTWARE WITHOUT COMPUTER









0.5X camera adapter (included)



1X auxiliary objective

1X auxiliary objective (included)



calibration plate (included)



16G USB flash disk (included)



1X camera adapter (optional)

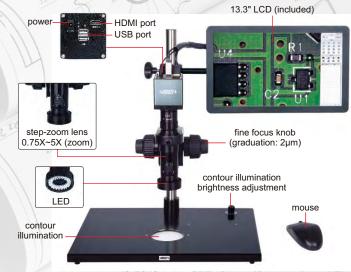


2X auxiliary objective (optional)

- 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	15X~100X		
Sensor	1/2" CMOS	1/2" CMOS		
Pixel	2M			
Resolution	1920×1080			
Frame rate	60fps			
Output	HDMI			
Power supply	power adapter			
Dimension (L×W×H)	570×300×430mm			
Weight	6.5kg			

To be continued

STANDARD DELIVERY

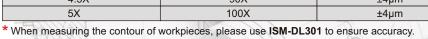
Code	ISM-DL300	ISM-DL301
Main unit	1 pc	1 pc
0.5X camera adapter	1 pc	1 pc
1X auxiliary objective	1 pc	1 pc
Calibration plate	1 pc	1 pc
16G USB flash disk	1 pc	1 pc
White/black plate	1 pc	1 pc
Mouse	1 pc	1 pc
HDMI cable	1 pc	1 pc
Power adapter	2 pcs	3 pcs

OPTIONAL ACCESSORY

1777/AS 1 VA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1X camera adapter	ISM-DL-CA1X	
2X auxiliary objective	ISM-DL-OB2X	
X-Y glass stage (travel: 100×86mm)	86mm) ISM-DL-STAGE	
X-Y metal stage ISM-DL-STAGE1		
LED light	page 626~627	
Auxiliary objective	page 628	

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



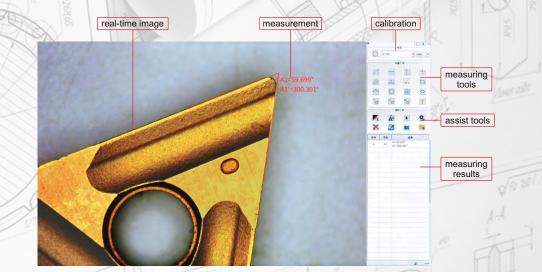


MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auviliant objective	Consideration	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	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 623 for details



HIGH MAGNIFICATION MEASURING MICROSCOPE **CODE ISM-DL302**

SOFTWARE IS INCLUDED, REFER TO PAGE 623 FOR DETAILS

OBSERVATION AND MEASUREMENT AT HIGH MAGNIFICATION







0.5X camera adapter (included)



1X camera adapter (optional)

■ 1080P high-definition image

calibration plate

(included)

16G USB flash disk (included)

- 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 623 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 626~627

MAGNIFICATION AND MEASURING ACCURACY

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

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

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

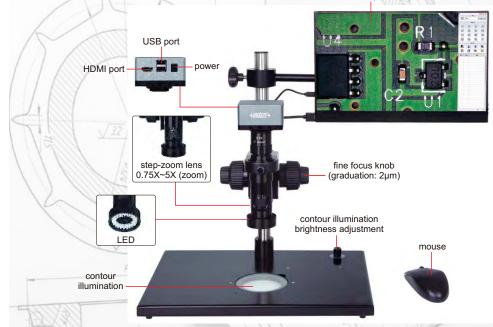
BUILT-IN SOFTWARE WITHOUT COMPUTER



MEASUREMENT

4K DIGITAL MEASURING MICROSCOPE CODE 5310-DL401

15.6" LCD (included)







X-Y glass stage (optional) (X-Y travel: 100×86mm)



X-Y metal stage (optional) (X-Y travel: 100×86mm)



calibration plate (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)

To be continued



Continued from previous page

MAGNIFICATION, VIEW FIELD AND MEASURING ACCURACY

Objective magnification	Image magnification	View field	Measuring accuracy
0.75X	17.6X	19.5×11.5mm	±5µm
1X	23.7X	14.0×8.0mm	±5µm
1.5X	36.6X	9.0×5.0mm	±5µm
2X	49X	7.0×4.0mm	±5µm
2.5X	62X	5.5×3.0mm	±4µm
3X	73X	4.5×2.5mm	±4µm
3.5X	85X	4.0×2.2mm	±4µm
4X	97X	3.5×2.0mm	±3µm
4.5X	109X	3.0×1.8mm	±3µm
5X	120X	2.7×1.5mm	±3µm
	100		

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

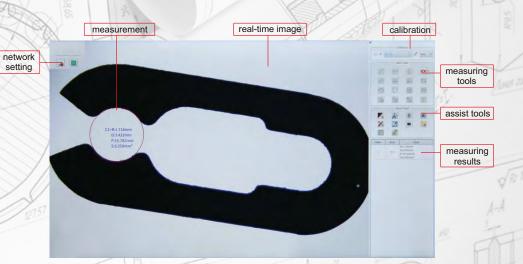
OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X	
2X auxiliary objective	ISM-DL-OB2X	
X-Y glass stage (travel: 100×86mm)	ISM-DL-STAGE	
X-Y metal stage (travel: 100×86mm)	ISM-DL-STAGE1	
LED light	page 626~627	
Auxiliary objective	page 628	

SOFTWARE (INCLUDED)

25

■ Refer to page 623 for details





MOTORIZED FOCUS STACKING MICROSCOPE (LARGE DEPTH OF VIEW) CODE ISM-DL520

BUILT-IN SOFTWARE WITHOUT COMPUTER



- 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
- Motorized 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

SPECIFICATION

	1001	
Magnification	24.5X~204.5X	
View field	2.8×1.6~18×10mm	
Focus distance	65mm	
Sensor	1/1.2" CMOS	
Pixel	2M	
Resolution	1920×1080	
Frame rate	30fps	
Output	RJ45	
Power supply	power adapter	
Dimension (L×W×H)	320×260×500mm	
Weight	7kg	





focus on the top



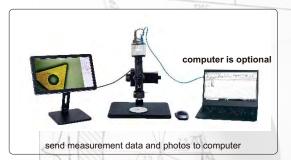
focus on the bottom



clear image of both top and bottom

To be continued

Continued from previous page









16G USB flash disk (included)

STANDARD DELIVERY

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

MAGNIFICATION AND MEASURING ACCURACY

Objective magnification	Image magnification	Measuring accuracy
0.6X	24.5X	±8µm
0.8X	32.7X	±7µm
1X	40.9X	±6µm
1.5X	61.3X	±6µm
2X	81.8X	±6µm
2.5X	102.2X	±5µm
3X	122.7X	±5µm
3.5X	143.1X	±4µm
4X	163.6X	±4µm
4.5X	184.0X	±4µm
5X	204.5X	±4µm



X-Y metal stage (**optional**) (X-Y travel: 100×86mm)



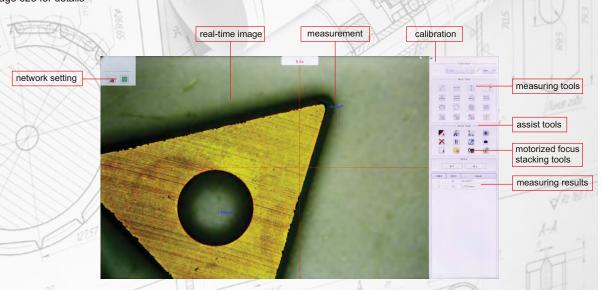
OPTIONAL ACCESSORY

X-Y metal stage (travel: 100×86mm)

ISM-DL-STAGE1

SOFTWARE (INCLUDED)

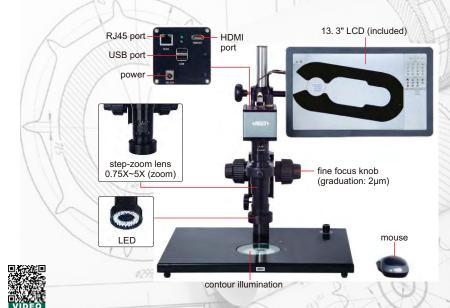
■ Refer to page 623 for details



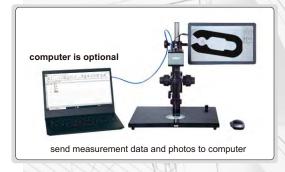
BUILT-IN SOFTWARE WITHOUT COMPUTER

MANUAL FOCUS STACKING MICROSCOPE (LARGE DEPTH OF VIEW) **CODE ISM-DL510**



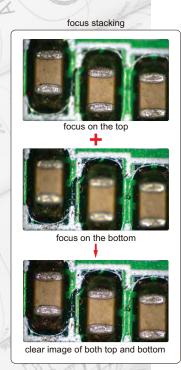


- 1080P high-definition image
- Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Measurement results can be sent to Excel
- Automatic white balance and exposure
- Focus stacking
- Send photos and measurement data via ethernet (TCP/IP)
 Name photos and measurement data files with serial number of workpieces read by scanner



SPECIFICATION

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





1X auxiliary objective (included)



2X auxiliary objective (optional)



0.5X camera adapter (included)



1X camera adapter (optional)

To be continued



Continued from previous page

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

0	
1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 100×86mm)	ISM-DL-STAGE
Scanner and hub	7328-SCAN
LED light	page 626~627
Auxiliary objective	page 628

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



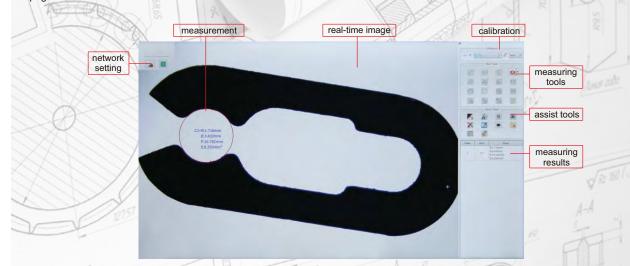
MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

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)

25

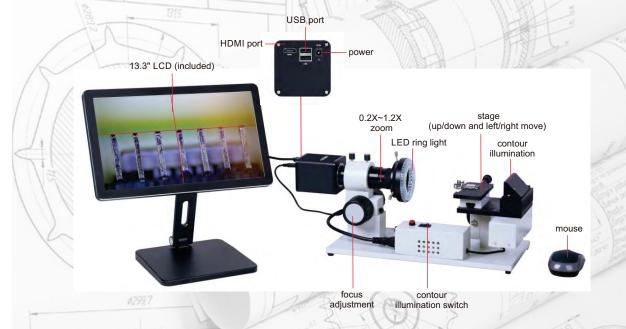
■ Refer to page 623 for details



BUILT-IN SOFTWARE
WITHOUT COMPUTER

TAKE PICTURES

HORIZONTAL MICROSCOPE **CODE 5316-HM810**



- 1080P high-definition image
 Built-in software without computer, operated by mouse
- Take pictures, save to USB flash disk
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable
 Display cross hair (blue/green/red/yellow/black/brown colors)



plastic calibration rule (included, graduation 1mm)



16G USB flash disk (included)

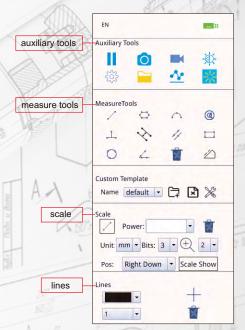
SPECIFICATION

Magnification	10.5X~62.5X
View field	4.5×2.5~28×12.3mm
Focus distance	115mm
Measuring accuracy	±0.02mm
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	1080P: 60fps/50fps
Output	HDMI
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	500×200×200mm
Weight	7kg

STANDARD DELIVERY

O IT III D DELIVERY	A COMPLETE TO THE TOTAL PROPERTY OF THE PARTY OF THE PART
Main unit	1 pc
1X camera adapter	1 pc
1X auxiliary adapter	1 pc
Plastic calibration rule	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
LED ring light	1 pc

SOFTWARE (INCLUDED)



25

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

To be continued

■ Flexible arm

■ Built-in software without computer, operation by mouse

Continued from previous page

SPECIFICATION

SPECIFICATION				
Code	5317-AF109 (with magnetic stand)	5317-AF110 (with desktop clamp)		
Magnification	20X~123X			
Sensor	1/2.8" CMOS			
Pixel	2M			
Resolution	1920×1080			
Frame rate	60fps			
Power supply	power adapter			
Dimension (height)	480mm	600mm		
Weight	5.6kg	8.5kg		



calibration plate (included)



16G USB flash disk (included)



0.5X camera adapter (included)



1X auxiliary objective (included)

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary	Specification	Camera adapter		
objective	Specification	0.5X (included)	1X (optional)	
	magnification	20~123X	40~246X	
1X (included)	focus distance	48~84mm	48~84mm	
ix (iliciadea)	view field	13×7~2.2×1mm	6.3×3.5~1.1×0.5mm	
	measuring accuracy	±0.02mm	±0.02mm	
	magnification	40~246X	80~492X	
2X (optional)	focus distance	24~42mm	24~42mm	
ZX (Optional)	view field	6.5×3.5~1.1×0.5mm	3.3×1.8~0.6×0.3mm	
	measuring accuracy	±0.02mm	±0.02mm	
	W* /			

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	2 pcs

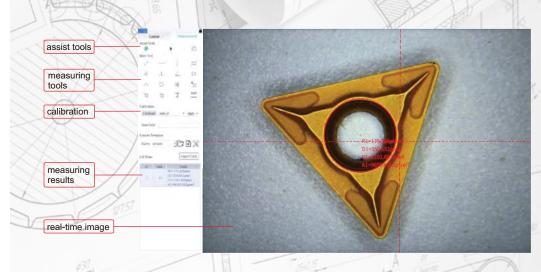
AUTO FOCUS DISTANCE

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

OPTIONAL ACCESSORY

The second secon	
1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
Auxiliary objective	page 628

MEASURING SOFTWARE (INCLUDED)



DIGITAL MEASURING MICROSCOPE (BASIC TYPE) 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

00	
Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Magnification	12~77X
Focus distance	65mm
View field	3.2×1.8~20.9×11.7mm
Max. workpiece height	60mm
Frame rate	60fps
Output	USB/HDMI
Power supply	power adapter
Dimension (L×W×H)	260×320×500mm
Weight	5.2kg

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

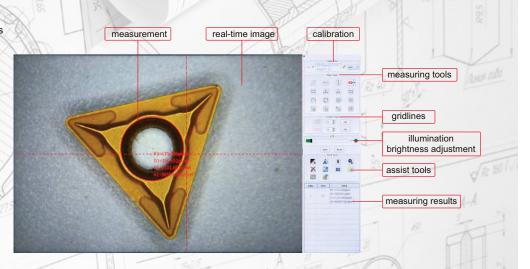
Objective magnification	Magnification	Measuring accuracy
0.7X	12X	±9µm
1X	17X	±9µm
1.5X	26X	±8µm
2X	35X	±7μm
2.5X	43X	±7μm
3X	51X	±7μm
3.5X	60X	±6µm
4X	68X	±6µm
4.5X	77X	±5µm

OPTIONAL ACCESSORY

0.5X auxiliary objective	5307-ID100A-OB05X
0.75X auxiliary objective	5307-ID100A-OB075X
2X auxiliary objective	5307-ID100A-OB2X

SOFTWARE (INCLUDED)

■ Refer to page 623 for details





STACKING

ELECTRONIC MAGNIFICATION FEEDBACK LENS

PROGRAMMABLE SEGMENTED RING LIGHT





- 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

 Send photos and measurement data via ethernet (TCP/IP)
- Digital magnification
- Can be connected to display and computer at the same time
- Take pictures, save to USB flash disk
 Measuring results can be sent to Excel



16G USB flash disk (included)



calibration plate (included)

SPECIFICATION

Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Magnification	12~77X
Focus distance	60mm
View field	3.2×1.8~20.9×11.7mm
Max. workpiece height	53mm
Frame rate	60fps
Output	USB/HDMI/LAN
Power supply	power adapter
Dimension (L×W×H)	260×320×500mm
Weight	5.2kg
	Ann I I

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





focus on the top



focus on the bottom



clear image of both top and bottom

To be continued



Continued from previous page

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

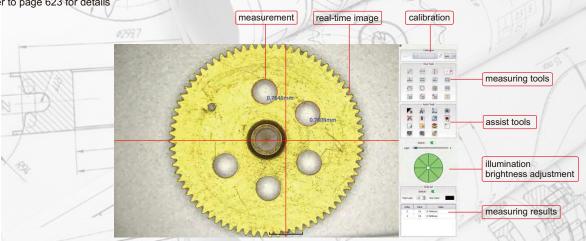
0.5X auxiliary objective	5307-ID100A-OB05X
0.75X auxiliary objective	5307-ID100A-OB075X
2X auxiliary objective	5307-ID100A-OB2X



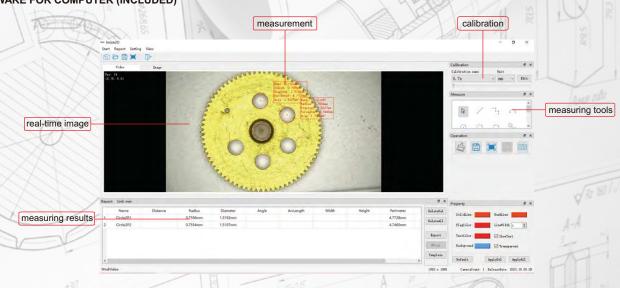
send measurement data and photos to computer, and also take photos, make measurement via computer software

SOFTWARE FOR LCD (INCLUDED)

■ Refer to page 623 for details



SOFTWARE FOR COMPUTER (INCLUDED)



620

25

https://precishop.hu

MOTORIZED LIGHT CONTROL







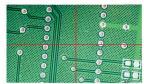




16G USB flash disk (included)

calibration plate (included)





display cross hair and gridline (blue/green/red/yellow/ black/white colors)

- Auto focus camera
- Take pictures and videos
- Built-in measuring software
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display actual magnification
- Digital magnification
- Shortcut keyboard operation
- Display cross hair and gridline (blue/green/red/ yellow/black/white colors)

SPECIFICATION

Magnification	27.4X~163X
Sensor	1/2.8" CMOS
Pixel	2M
Measuring accuracy	±0.02mm
Resolution	1920×1080
Frame rate	50/60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	600×280×390mm
Weight	6.5kg

STANDARD DELIVERY

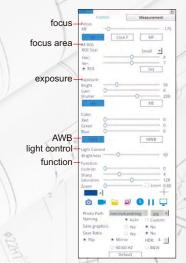
Main unit (with stand)	1 pc
21.5" LCD	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
HDMI cable	1 pc
Calibration plate	1 pc
White/black plate	1 pc
Shortcut keyboard	1 pc
Power adapter	2 pcs

Shortcut keyboard fuction

- Take picture: take a picture and save it
- Video: record a video
- Freeze: the image can be frozen
- Manual focus-: reduce the manual focus value
- Manual focus+: increase the manual focus value
- Zoom+: increase the magnification
- Zoom-: reduce the magnification AF/MF: switch to auto focus or manual focus
- FBL: center the camera motor
- Mirror: image horizontal flipover
- Flip: image vertical flipover
- Focus: achieve one-key focus
- Zoom 1, 2, 3, 4: save the current magnification
 Brightness+: increase the brightness of the light
 Brightness-: reduce the brightness of the light

SOFTWARE (INCLUDED)

shortcut keyboard (inclued)





FOCUS DISTANCE AND VIEW FIELD

			1.5			
Optical magnification*	0.8X	1X	2X	3X	4X	4.76X
Focus distance	88~133mm	88~133mm	98~123mm	103~115mm	108~111mm	108~111mm
View field (mm)	19.4×11~15.8×8.8	15×8.3~12.7×7.2	7.1×4~6.7×3.8	4.8×2.7~4.5×2.5	3.6×2~3.3×1.8	3×1.7~2.8×1.6

^{*}The optical zoom lens can be arbitrarily zoomed between 0.8X and 4.76X

CUTTING TOOLS MICROSCOPE CODE ISM-CT820

TAKE PICTURES AND VIDEOS

BUILT-IN SOFTWARE WITHOUT COMPUTER

SPLIT SCREEN DESIGN

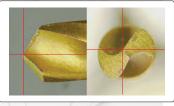




- Split screen design, zoom in and out independently
- One mouse can operate two cameras
- Display cross hairs
- Brightness, contrast ratio, white balance are adjustable
 Basic measuring tools including point to point, point to line, line to line, angle, three-point circle, etc.



glass calibration plate (included)



display cross hairs separately (movable)

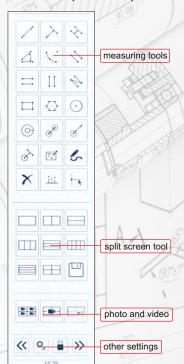
SPECIFICATION

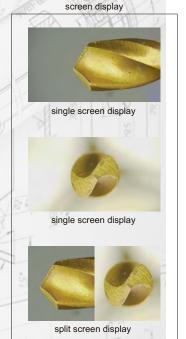
Cutting tools range	Ø4~12mm, length 30-75mm
Lens	step-zoom lens
Output	HDMI
Resolution	1920×1080
Frame rate	60fps
Focus distance	85mm
View field	2×3.5~13.2×23.9mm
Magnification	20-132X
Power supply	AC 100-240V
Dimension (L×W×H)	450×300×700mm
Weight	20kg

STANDARD DELIVERY

OTANDAND DELIVERY	CARLE LAG
Main unit	1 pc
Display	1 pc
32G USB flash disk	1 pc
Mouse	1 pc
HDMI cable	1 pc
Glass calibration plate	1 pc
Anti-dust cover	1 pc

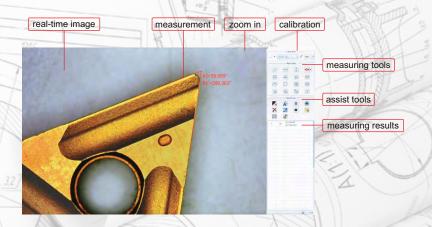
SOFTWARE (INCLUDED)





SOFTWARE CAN BE CUSTOMIZED

MEASURING SOFTWARE OF DIGITAL MICROSCOPES

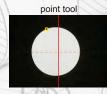


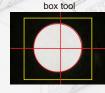
- Included in digital microscopes (ISM-DL300, ISM-DL301, 5310-DL401, ISM-DL302, ISM-DL510, ISM-DL520, 5307-ID100A)
- Language: Simplified Chinese, Traditional Chinese, English, Korean





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
- T 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



II freeze screen

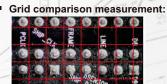
- camera parameter settings
 - measurement items

- X delete images
- export measurement data to U disk
- take pictures and save
- review pictures
- 👸 system settings

■ Cross hair:



60



full-screen grid for comparison measurement, adjustable grid number

graduated cross hair for comparison measurement



Output to Excel:



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

13.3" LCD (included)

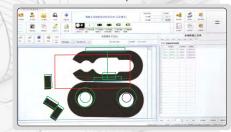


sensor switch (triggered when an object passes by within 3cm and a detection is performed, the interval time between triggering and detection is adjustable)

camera function

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

detect different workpieces at one time



NG: buzzer alarm

- 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 sent to Excel



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

	1000 T101 T102				
T102 Cluster Detection number Detection time Detection color Number of spots Number of spots					
	700101 000641 001		ph (the	U SPECIAL DE PROCE	0.0000mm
2	700101 000041 001		ée.	0	0.0000mm
,	700101 001202 001		白色	D	0.0000mm
4			ME		
5					
6.					
T B					
ģ.					
10					
12					
13					

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	Specification	Camera adapter	
objective Specification	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
(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 626~627
Auxiliary objective	page 628

To be continued

■ APPLICATION EXAMPLES:

dimension measurement





automatically locate and measure, and judge OK or NG

thread measurement





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

cutting tools measurement





measure length and angle

counting





automatically locate and count, and judge OK or NG

existence or absence





automatically detect the existence or absence of the target

character recognition





automatically detect letters or numbers in the area, and judge OK or NG

color detection





automatically detect colors, and judge OK or NG

location detection





automatically detect whether the center line is aligned or not

surface defect detection





detect missing and burr on the edge of circle, and judge OK or NG

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 5315-S710, 5301-D400, 5313-S407, 5310-DL401, 5303-AF103, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL520

SPECIFICATION

SI ESII ISATISI	
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 5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510, 5315-S710

SPECIFICATION

	V
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 5303-AF103, 5310-DL401, ISM-DL300, ISM-DL301, ISM-DL302, ISM-DL400, ISM-DL510, 5315-S710

SPECIFICATION

	73.
Light color	white
Power supply	24V
Power	10.36W
Angle	0~90°
Dimension (L×W×H)	154×154×30mm

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

ATTENSION: MUST BE USED WITH LIGHT BRACKET AND LIGHT CONTROLLER



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

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





BRACKET FOR LIGHTS CODE ISM-LED-BRACKET







SPECIFICATION

L-shape metal

ı	Size (L×W×H)
_	Woight

260×300×20mm

0.7kg

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

Adjustable illumination

■ For digital and stereo microscopes

SPECIFICATION

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



DUAL HEAD LED LIGHT CODE ISM-ZS-LED

application



LED AUXILIARY LIGHT CODE ISM-DL-LED

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

SPECIFICATION

SPECIFICATION		
·300mA		



illumination direction and brightness are adjustable

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



brightness adjustment knob

COAXIAL LIGHT CODE ISM-DL-COAXIAL



brightness is adjustable

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for smooth surfaces and small holes,

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, 5317-AF109, 5317-AF110

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

Auxiliary objective		Camera	Camera adapter	
Auxiliary objective	Specification	0.5X (included)	1X (optional)	
	magnification	6~37X	12~74X	
0.3X (optional)	focus distance	120~310mm	120~310mm	
	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	
	view field	37×20~5×3mm	18×10~2.5×1.5mm	
0.757	magnification	15~92X	30~184X	
0.75X (optional)	focus distance	60~125mm	60~125mm	
(Optional)	view field	21×13~3.4×2mm	10×6.5~1.7×1mm	
1X (included)	magnification	20~123X	40~246X	
	focus distance	48~84mm	48~84mm	
	view field	15×8~2.5×1.5mm	7.5×4~1.3×0.7mm	
1.5X	magnification	30~184X	60~368X	
(optional)	focus distance	36~63mm	36~63mm	
(Optional)	view field	10×6~1.7×1mm	5×3~0.9×0.5mm	
av	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 (ISM-DL300, ISM-DL301, ISM-DL510)

		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
	magnification	9~56X	18~112X
0.5X	focus distance	166±2mm	166±2mm
(optional)	view field	25.6×16.8~5×3.5mm	12.8×8.4~2×1.3mm
	magnification	13~84X	26~168X
0.75X (optional)	focus distance	105±2mm	105±2mm
(орионаі)	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
	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,

628

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

15.6" LCD

MEASUREMENT

TAKE PICTURES AND VIDEOS

DIGITAL MICROSCOPES

15.6" LCD (included)

display angle is adjusted



connect to USB cable take pictures and videos memory card vertical illumination HDMI port adjustment MENU focus adjustment connect to diffuse illumination remote controller adjustment power indicator power on/off

(included) display angle is adjusted universal

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

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		





USE 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	1

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

To be continued

Continued from previous page



(included)



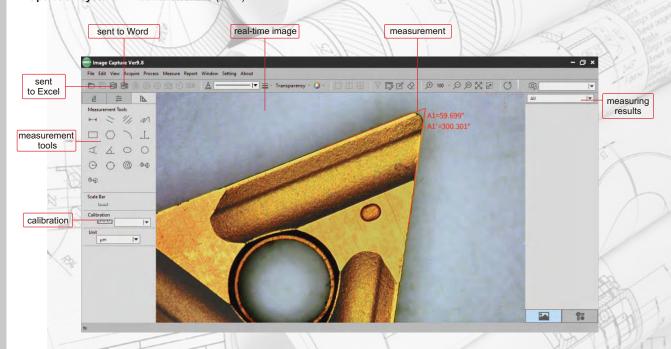
white/black plate (included)



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)



Measurement tools:

25

- straight line distance measurement
 - 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
- torus measurement
- polyline line measurement
- three-vertical-line measurement
- round measurement
 - center distance measurement by radius

Data is sent to Word or Excel:







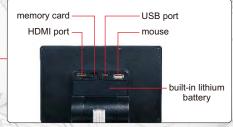
BUILT-IN LITHIUM BATTERY

MINI DIGITAL MICROSCOPE (ECONOMIC TYPE) CODE 5311-M710











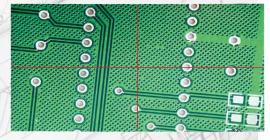
illy 1

8G memory card and holder (included)

infrared ray remote controller (included)



cross hair



grid (color, line width and positions are adjustable)



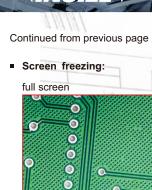
SPECIFICATION

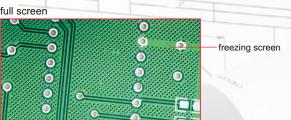
Display resolution	1024×600	
Sensor	1/3" CMOS	
Sensor resolution	1280×960	
Single pixel size	2μm×2μm	
Frame rate	60fps/30fps	
Magnification	1X~16X	
White balance	auto/manual (10 levels RGB)/calibration	
Exposure control	AE lock/exposure compensation (10 levels)	
Image control	contrast/saturation/sharpness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

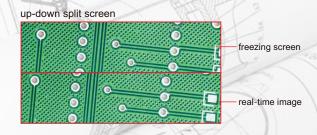
STANDARD DELIVERY

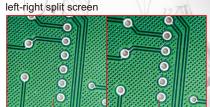
Main unit	1 pc
USB cable	1 pc
HDMI cable	1 pc
IR remote controller	1 pc
8G memory card and holder	1 pc
Plastic calibration rule	1 pc
Power adapter	1 pc

To be continued

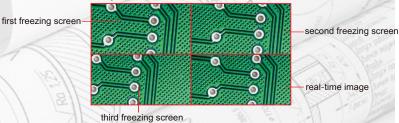








freezing screen real-time image 1/4 split screen

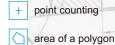


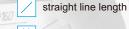
real-time image

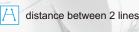
SOFTWARE FOR COMPUTER (included)

- Language: Chinese (Simplified), English
- Operation system: Windows 7/8/8.1/10 (64bit)
- Port: USB2.0 or above
- Measuring accuracy: 0.02mm

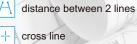
point-line distance

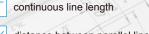


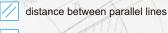




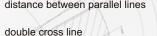
radius of a circle

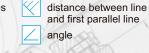






radius of a 2-point circle





angle

area of a rectangle

radius of a 3-point circle

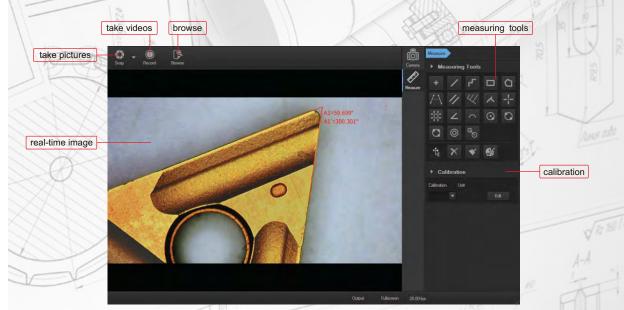


632

arc

center distance of 2 circles

o center distance of concentric circle



DIGITAL MEASURING MICROSCOPES

25

put the digital microscope directly on the workpiece for inspection and measurement

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

measurement take picture illumination adjustment focus adjustment magnification adjustment white/black plate ISM-PM200SA computer is optional

SPECIFICATION

Code	ISM-PM200SA ISM-PM200SB			
Magnification	10X~200X	10X~200X		
Stand	standard	universal		
Pixel	2M (resolution: 1600×1200)			
Illumination	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
	-

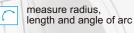


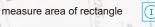
included)

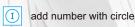
SOFTWARE

- 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
I N

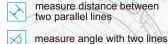




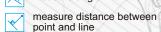


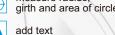
measure distance between two circles

measure length of continuous line measure angle with



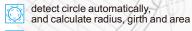
three points measure radius, girth and area of circle





■ Edge detection measurement tools:

detect two parallel lines automatically and calculate distance



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

detect two lines automatically, and calculate angle

detect line automatically, and calculate length

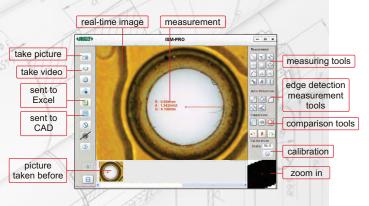
universal stand (included in ISM-PM200SB)





MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

interior to Article, 1 Good Biolivator, Tien 1 leep / at B / Good Biolivator						
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





create circle

■ Data is sent 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



software flash disk



(included)







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

1 pc
1 pc









OPTIONAL ACCESSORY

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

1 Software ISM-PAD (for iPad by WIFI)

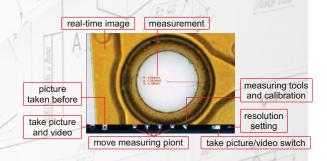
measure length of line or distance between two points

measure radius, girth and area of circle with three points

measure angle

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

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



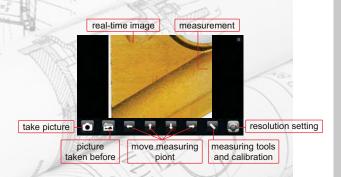
To be continued

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

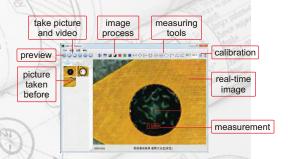
measure angle with two lines

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

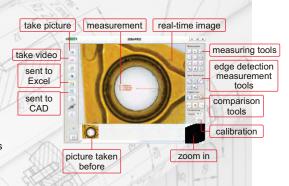
measure area of rectangle

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



create angle

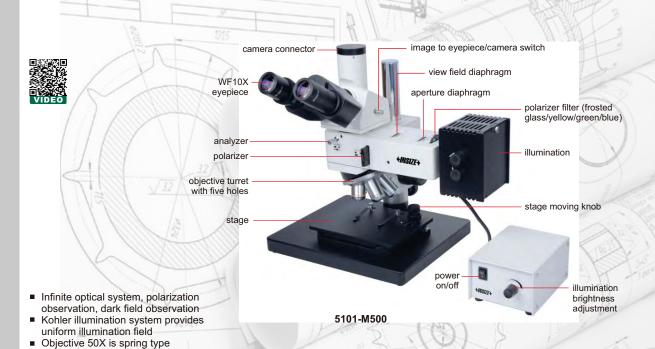


■ Data is sent to CAD or Excel:





INDUSTRIAL MICROSCOPES



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 of	bright field objectives			bright & dar	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 fi	10X (view field: Ø22mm)							
	double layer								
Stage	size: 160×140mm								
	travel: 35x3	travel: 35x30mm							
Pupil distance	53~75mm	53~75mm							
Diopter adjustment	±5 diopter (one eyepiece)								
Power supply	220V, 50/60Hz								
Dimension (L×W×H)	415×345×380mm								
Weight	14kg	14kg							

STANDARD DELIVERY

Main unit	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

	Bright & dark field objective	PL40X	5101-M-BD40X			
		PL60X	5101-M-BD60X			
ı	(for 5101-M500BD)	PL80X	5101-M-BD80X			
ı		PL100X	5101-M-BD100X			
	10X dividing eyepiece (0.1mm/div.)	5101-M-EPD10X			
SI		PL40X	5101-M-OB40X			
1	Bright field objective	PL60X	5101-M-OB60X			
ı	(for 5101-M500)	PL80X	5101-M-OB80X			
١		PL100X	5101-M-OB100X			
-	Digital camera		ISM-CM20, ISM-CM63, ISM-ZS70-S			
1	Camera adapter *		5101-M-ADAPTER			
		20/17/12	773-77			

^{*}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

7		100 mm 2 mm						
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	0.25	0.40	0.60				
Working distance	17.8mm	10mm	5.8mm	2.9mm				
Stage	double layer, size: 300×268mm, travel: 250×200mm							
Kohler illumination	6V/20W halogen lamp, brightness is adjustable built-in green, blue, yellow and frosted glasses							
Pupil distance	48~75mm							
Diopter adjustment	±5 diopter (two eyepiece	s)						
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

OPTIONAL ACCESSORY

	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

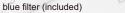
METALLURGICAL MICROSCOPES



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







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)				
Objective	bright field objectives				bright & darl	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 field: Ø22mm)								
	double layer								
Stage	size: 210×140mm								
	travel: 75x50mm								
Pupil distance	53~75mm								
Diopter adjustment	±5 diopter (o	ne eyepiece)							
Power supply	220V, 50/60Hz								
Dimension (L×W×H)	456×260×498mm								
Weight	11kg								

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

PL50X	5101-M-BD50X				
PL60X	5101-M-BD60X				
PL80X	5101-M-BD80X				
PL100X	5101-M-BD100X				
(0.1mm/div.)	5101-M-EPD10X				
PL20X	5101-M-OB20X				
PL50X	5101-M-OB50X				
PL80X	5101-M-OB80X				
PL100X	5101-M-OB100X				
	ISM-CM20, ISM-CM63, ISM-ZS70-S				
	5101-M-ADAPTER				
	PL60X PL80X PL100X (0.1mm/div.) PL20X PL50X PL80X				

Digital camera must be used with camera adapter

METALLURGICAL MICROSCOPES (PROFESSIONAL TYPE)



- Infinite chromatic aberration correction optical system
- Three way observation tube with infinite hinge
- Translucent and reflective frame, front low-hand position coarse and fine coaxial focus adjustment mechanism, with adjustment elastic device to prevent sliding and random upper limit device
- Bright and dark field five-hole converter with DIC slot
- Adopt digital dimming, with light intensity reset and setting function
- With polarizer insert plate and 360° rotating analyzer insert slot





5108-M3000

SPECIFICATION

Code	5108-M3000 (standard type)				5108-M3000H (high-definition type)				
Eyepiece	high eye point large field SWH10X-H (view field: Ø25mm, adjustable visibility)								
Objective (infinite long working distance bright and dark field semi achromatic)	5X	10X	20X	50X	5X	10X	20X	50X	
Working distance	15mm	8.4mm	10.3mm	3.0mm	20mm	11mm	3.0mm	1.0mm	
Numerical aperture	0.15	0.30	0.40	0.75	0.15	0.30	0.45	0.80	
Optical magnification	50X~500	X (up to 100	00X with opti	onal 100X o	bjective)				
Digital magnification	170X~1700X (on 21.5" monitor), up to 3400X with optional 100X objective								
	double layer								
Stage	size: 310×240mm								
	travel: 150×100mm								
Condenser	roll-out achromatic condenser (numerical aperture 0.9)								
Illumination	5W LED, transmitted and reflected								
Observation tube			nce adjustme atio binocular						
Diopter adjustment		r (two eyep							
Power supply	AC 100-240V								
Dimension (L×W×H)	310×600×500mm								
Weight	27kg								

STANDARD DELIVERY

Main unit	1 pc
Anti-dust cover	1 pc
0.65X camera adapter (adjustable focus)	1 pc
Polarizer and analyzer	1 pc of each

OPTIONAL ACCESSORY

Camera and software	ISM-CM63
Glass calibration rule	ISM-MAS-SCALE
Computer	5108-M-COMPUTER
2.5X infinite long working distance bright field semi achromatic objective	5108-M-OB2D5X
100X infinite long working distance bright and dark field semi achromatic objective	5108-M-BD100X
50X infinite long working distance bright and dark field achromatic objective	5108-M-APO50X
100X infinite long working distance bright and dark field achromatic objective	5108-M-APO100X
Differential interference module (DIC)	5108-M-DIC

METALLURGICAL MICROSCOPES



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

SPECIFICATION

Code	5103-M1000	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 objectives				bright & dark	field objective	s		
(infinite plan achromatic)	10X	20X	50X	100X	5X	10X	20X	50X	
Working distance	20.2mm	8.80mm	3.68mm	0.40mm	9.70mm	9.30mm	7.23mm	2.50mm	
Numerical aperture	0.25	0.40	0.70	0.85	0.12	0.25	0.40	0.70	
Magnification	100X~1000>	<			50X~500X				
Eyepiece (wide field)	10X (view fie	eld: Ø22mm)							
	double layer								
Stage	size: 242×200mm								
	travel: 30x30mm								
Pupil distance	53~75mm								
Diopter adjustment	±5 diopter (c	ne eyepiece)							
Power supply	220V, 50/60Hz								
Dimension (L×W×H)	614×250×39	4mm							
Weight	13kg								

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

Bright & dark field objective (for 5103-M1000BD)	PL40X	5101-M-BD40X
	PL60X	5101-M-BD60X
	PL80X	5101-M-BD80X
	PL100X	5101-M-BD100X
10X dividing eyepiece (0.1mm/div.)		5103-M-EPD10X
Bright field objective	PL5X	5101-M-OB5X
	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



PORTABLE METALLURGICAL MICROSCOPE **CODE 5109-PM500**



connect to digital camera



- Illumination is powered by batteries
 Aperture diaphragm improves image quality and increases depth of field
- Magnetic base with on/off switch can adhere on metal workpieces
- Can be connected to digital cameras

SPECIFICATION

		WALL VIDE
Magnification	100X~500X	
Eyepiece (wide field)	10X/12.5X	
Objective (plan achromatic)	10X (included) 40X (included)	
Numerical aperture	0.25	0.64
Illumination	3W LED, built-in batteries	
Stage	double layer, size: 15×12mm	
Dimension (L×W×H)	210×160×95mm	
Weight	1.5kg	

STANDARD DELIVERY

Main unit	1 pc
Eyepiece	2 pcs
Objective	2 pcs
Battery (AAA)	3 pcs

	5X plan achromatic	5109-PM500-OB5X
Objective	20X plan achromatic	5109-PM500-OB20X
,	100X plan achromatic	5109-PM500-OB100X
Eyepiece	5X	5109-PM500-EP5X
Eyepiece	15X	5109-PM500-EP15X
Digital camera*		ISM-CM20, ISM-CM63, ISM-ZS70-S
Camera adapter 0.5X		ISM-MAS-ADAPTER

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

ZOOM STEREO MICROSCOPE (PROFESSIONAL TYPE) CODE 5107-S70T





0.5X camera connector

image to eyepiece/camera switch objective magnification adjustment

focus adjustment

reflected LED light

LED light adjustment



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, 50/60HZ	
Dimension (L×W×H)	330×300×368mm	
Weight	3.5kg	



frosted glass filter (included)



(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

Amrilians	0.5X	5107-S70T-OB05X
Auxiliary objective	1.5X	5107-S70T-OB15X
Objective	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

coaxial illumination (optional)



- optical path splitter (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		

iris diaphragm (optional)





STANDARD DELIVERY

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

	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-ZS200-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 auxiliary objective must be used with ISM-ZS200-ADAPTER

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

ZOOM STEREO MICROSCOPES (ADVANCED TYPE)

objective

reflected illumination adjustment

working stage diameter: 100mm





0.55X camera connector 10X eyepiece

objective magnification adjustment

focus adjustment

transmitted illumination adjustment





connect to digital camera (for ISM-ZS100T)

LED ring light (optional)

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

Main unit	1 pc
Camera connector 0.55X for ISM-ZS100T	1 pc
Digital camera adapter 1X 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

OPTIONAL ACCESSORY

Auvilian	0.5X (focus distance: 220mm)	ISM-ZS100-OB05X *
Auxiliary objective	0.7X (focus distance: 125mm)	ISM-ZS100-OB07X
0.000.00	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-ZS200-ADAPTER
LED ring light		ISM-ZS-RL
Digital camera for ISM-ZS100T		ISM-CM20, ISM-CM63, ISM-ZS70-S

^{*0.5}X auxiliary objective must be used with ISM-ZS200-ADAPTER

ZOOM STEREO MICROSCOPES (STANDARD TYPE)



objective magnification adjustment

reflected LED lightfocus adjustment

transmitted LED light adjustment working stage diameter: 100mm

LED ring light (optional)

ISM-ZS50

SPECIFICATION

Code	ISM-ZS50	ISM-ZS50T		
Optical tube	binocular	trinocular		
Eyepiece (wide field)	10X (view field: Ø	22mm)		
Objective	0.8X~5X (zoom)			
Zoom ratio	1:6.3			
Pupil distance	55~75mm (adjust	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
S	WF 10X eyepiece	2 pcs
7	Ø100mm glass plate	1 pc
	Ø100mm white/black plate	1 pc
7	Anti-dust cover	1 pc

OI HOWAL ACCEDED		[] [] []
Auxiliary objective	0.5X	ISM-ZS50-OB05X*
Auxiliary objective	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-ZS200-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-ZS200-ADAPTER

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





SPECIFICATION

Code	5106-M40	5106-M40T	5106-M50	5106-M50T
Stand	type A		type B	
Optical tube	binocular	trinocular	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		ring light		
Power supply	power adapter			
Dimension (L×W×H) 610×220×430mm			790×230×430mm	
Weight	13.7kg		20kg	

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

Auxiliary	0.5X	ISM-ZS50-OB05X*
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
Adapter sleeve		ISM-ZS30-ADAPTER
0.5X adapter for 5106-M40T/M50T		ISM-MAS-ADAPTER
Digital camera for 5106-M40T/M50T **		ISM-CM20, ISM-CM63

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

^{**}Digital camera must be used with 0.5X adapter ISM-MAS-ADAPTER



ZOOM STEREO MICROSCOPE (BASIC TYPE) CODE ISM-ZS30



SPECIFICATION

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



LED ring light (optional)

STANDARD DELIVERY

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

	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

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

LONG WORKING DISTANCE STEREO MICROSCOPES (LOW MAGNIFICATION)





Code	5305-ZS80 (with metal base)	5305-ZS90 (with magnetic base)	
Magnification	8X	3	
Eyepiece (wide field)	10X (view field: Ø20mm)		
Objective	0.8X	0.8X	
Pupil distance	55~75mm	55~75mm	
Diopter adjustment	±5 diopter (one eyepiece)	±5 diopter (one eyepiece)	
Working distance of objective	115mm	115mm	
Max. workpiece height	100mm	140mm	
Dimension (L×W×H)	280x160x370mm	280x180x410mm	
Weight	3.7kg	2.1kg	

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

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



LED ring light (optional)



POLARIZING MICROSCOPE CODE ISM-POL1000



Widely used in geology, mineralogy, fossil fuel exploration

 Single polarization, othorgonal polarization or conoscopic observation are available

SPECIFICATION

SPECIFICATION		[6] [X			
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°, reso	graduation: 1°, resolution: 6'			
Pupil distance	53~75mm	53~75mm			
Diopter adjustment	±5 diopter (one eye	±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	110/220V, 50/60HZ			
Dimension (L×W×H)	614×250×394mm	614×250×394mm			
Weight	13kg	13kg			

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

	PL20X	ISM-POL1000-OBR20X
Objective for reflected system	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

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

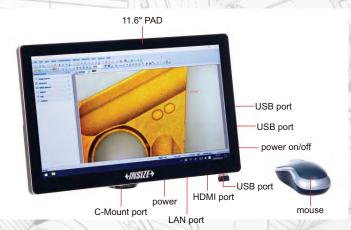
ATTENTION: CAMERA CONNECTOR AND ADAPTER ARE NEEDED ACCORDING TO MICROSCOPES

MEASUREMENT, TAKE PICTURES AND VIDEOS



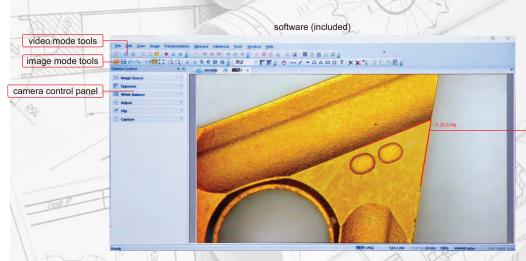


(included, graduation 0.1mm)



application connected to microscope

- 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



on pictures

measurement

Measuring tools

measure line

measure angle

measure meander line

measure rectangle

arrow mark

measure circle

measure polygon text mark



show/hide scale

SPECIFICATION

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

STANDARD DELIVERY

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





DIGITAL CAMERA FOR MICROSCOPES CODE ISM-CM63

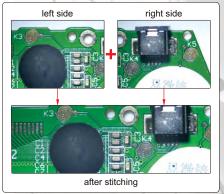
- To be used with computers
- Sony Exmor back-illuminated CMOS sensor
- USB3.0 transmission
- Automatic exposure, gain adjustment, white balance, chrominance adjustment, saturation adjustment, gamma correction, luminance adjustment, contrast adjustment

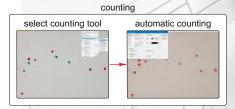
glass calibration rule (included, graduation 0.1mm)





automatic image stitching (expand field of view)



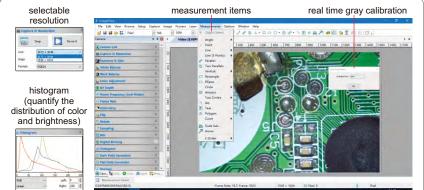








software (included)









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

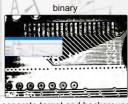


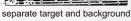
focus stacking

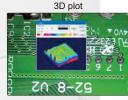
focus on the bottom focus on the top



top and bottom







visualize the distribution of image brightness and color

To be continued

SPECIFICATION

OI LOII IOATION	
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

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

STANDAER DELIVERY

THE CONTRACTOR OF THE CONTRACT	
Camera (USB cable included)	1 pc
Software	1 pc
Glass calibration rule (graduation 0.1mm)	1 pc

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 sent 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

Chip structure	FPGA+ARM
Operation 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.)
Operation 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

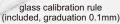
DIGITAL CAMERA FOR MICROSCOPES CODE ISM-CM20

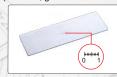




■ 1080P high-definition image

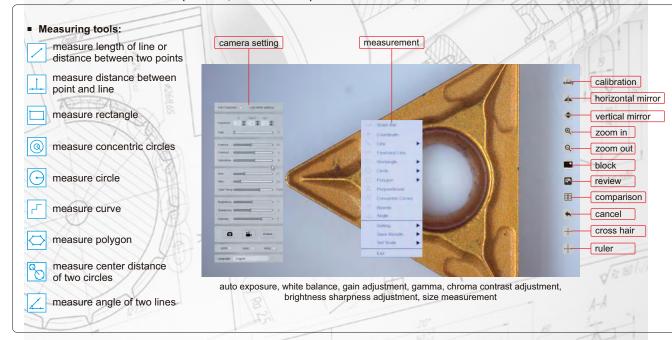
- Can be connected with displays or computers Built-in simple measuring software for displays, without computer
- Professional measuring software for computers is included
- For bright field, dark field or fluorescent field
- Automatic exposure, white balance, gain adjustment, gamma correction, brightness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







SIMPLE MEASURING SOFTWARE (BUILT-IN, FOR DISPLAYS)



To be continued

Continued from previous page

PROFESSIONAL MEASURING SOFTWARE (INCLUDED, FOR COMPUTERS)

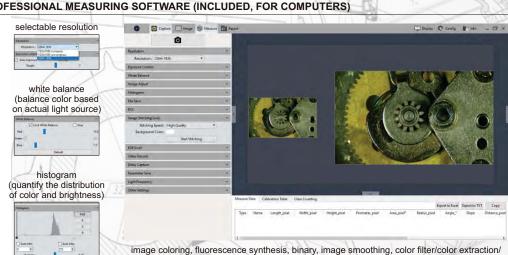


image coloring, fluorescence synthesis, binary, image smoothing, color filter/color extraction/color inversion, delay capture, focus stacking, automatic image stitching, metrics flow, manual counting, dynamic and static measurement, layered measurement, report generation and printing, delay record, flat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





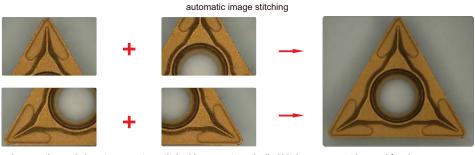
focus on the top



focus on the bottom



clear image of both top and bottom



slowly move the workpiece to generate a stitched image automatically (this image can not be used for size measurement)

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

1 100 407		
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
Glass calibration rule (graduation 0.1mm)	1 pc
Mouse	1 pc
HDMI cable	1 pc
USB cable	1 pc
Power supply	1 pc

OPTIONAL ACCESSORY

Adapter 0.5X	ISM-MAS-ADAPTER
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FOCUS STACKING

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





- 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
 4K HDMI/LAN/USB multiple video outputs
 4K/1080P automatically switched by display resolution

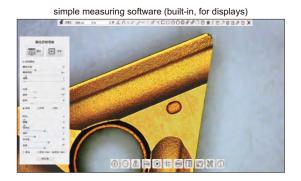
C-mount port

- Focus stacking, automatic image stitching
- Wireless network or wired network





application







SPECIFICATION

4/4 011 01400
1/1.2" CMOS
8M
3840×2160, 1920×1080
2.9×2.9µm
60fps@3840×2160 (HDMI) 30fps@3840×2160 (LAN) 30fps@3840×2160 (USB)
1×1
0.04~1000ms
HDMI/USB/LAN
C-mount
DC 12V 1A
80×65×105mm
700g

CONNECTION

HDMI	comply with HDMI 2.0 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 (USB 3.0 interface) in AP/STA mode
COMPUTER connecting USB video port of PC for video transfer H264/MJPEG format video	

To be continued

Continued from previous page

STANDARD DELIVERY

Main unit	1 pc
32G 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
	17.0

OPTIONAL ACCESSORY

16G USB flash disk		IS-USBDISK-16G
Adjustable lens adapter	Ø23.2mm eyepiece tube	ISM-MP-2A075
	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 7/8/10/11	
CPU	Intel Core 2 2.8Hz	
Memory	2GB	
USB port	USB 3.0 or USB 2.0 port	
Display	17"	

PROFESSIONAL MEASURING SOFTWARE (INCLUDED, FOR COMPUTERS)

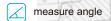
Measuring tools:

measure length of line or distance between two points

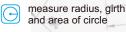
measure rectangle

measure distance between two parallel lines

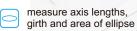
measure width and diameter of ring



measure diameter, length, perimeter angle of arc



measure area of polygon

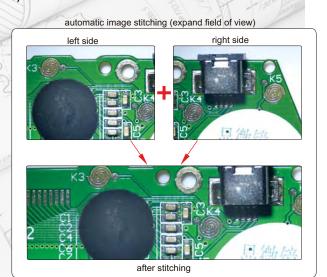


measure center distance between two circles



25

measure length of open curve



focus stacking

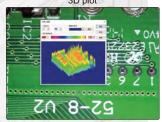


focus on the bottom



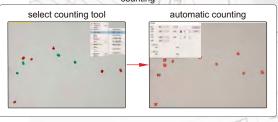
clear image of both top and bottom

3D plot



visualize the distribution of image brightness and color

counting



Dinary

Geogeogo

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







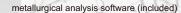


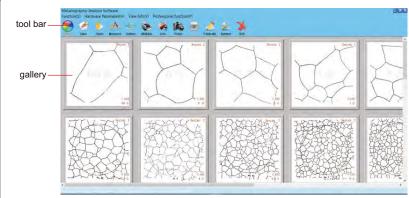


software flash disk (included)



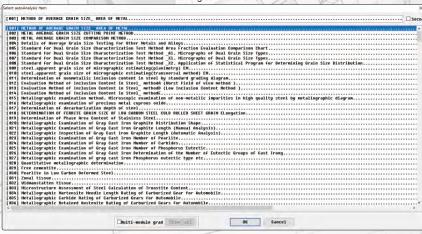
glass calibration rule (included)





this software can be used with variety of metallographic microscopes for acquisition, processing, analysis, report generation of metallurgical images

metallurgical module list

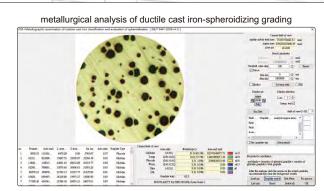


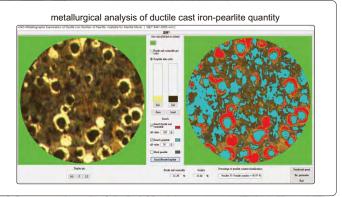
To be continued

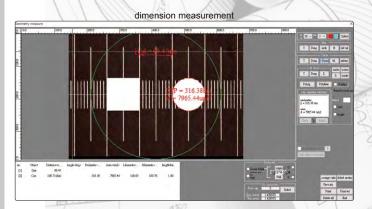


Continued from previous page

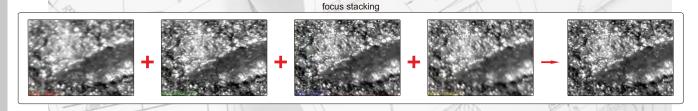
examples of metallurgical analysis



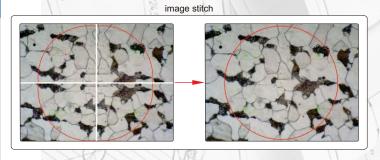












SPECIFICATION

Sensor	1/1.8" CMOS
Pixel	6.3M
Resolution	3072×2048
Frame rate	30fps
Exposure time	0.1ms~15s
Power supply	USB port
Weight	400g

three dimension map



STANDARD DELIVERY

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

CAMERA ADAPTERS



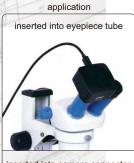
- Ø23.2/30mm eyepiece adapter is included
- Suitable for digital cameras ISM-CM20, ISM-CM63, ISM-ZS70-S



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



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



inserted into camera connecter





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

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

^{*}There may be shadows on the edge of image when ISM-AD-A0D5 is used

PORTABLE MEASURING MICROSCOPES



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	650a			

STANDARD DELIVERY

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

TABLE MAGNIFIER WITH ILLUMINATION **CODE 7517-3D**

- Four steps brightness adjustment
- LED illumination, working life 20000h

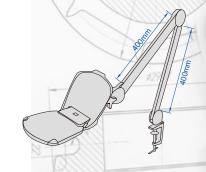
SPECIFICATION

Magnification	1.75X	
Diopter	3D	
Lens diameter	Ø125mm	
Illumination	power: 3W, illumination: 260lm	
Power supply	power adapter 12V, 1A	





TABLE MAGNIFIERS WITH ILLUMINATION



■ LED illumination, working life 20000h

■ Resin lens



clamping holder (clamping range 10~60mm)





7521-3D

SPECIFICATION

Code	7520-320D	7521-3D
Magnification	two magnifications 1.75X/6X	1.75X
Diopter	3D/20D	3D
Lens dimension	160×127mm Ø126mm	
Illumination	power: 6W, illumination: 550lm	
Power supply	power adapter 12V, 1A	

25

TABLE MAGNIFIER WITH ILLUMINATION **CODE 7516-5D**



SPECIFICATION

Magnification	2.25X	
Diopter	5D	
Lens diameter	Ø122mm	
Illumination	power: 7W, illumination: 420lm	
Power supply	100~240V, 50~60Hz	



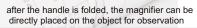




DIGITAL MAGNIFIER CODE 7525-D4



- 720P60 camera
- Auto focus
- With screen freezing function
 26 color modes can be switched to meet the needs of different people
- Port to TV
- Automatic shutdown after 3 minutes





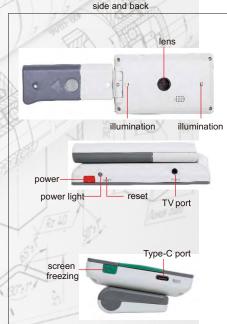
SPECIFICATION

4.3 inch		
480x272		
2X-32X		
8M		
manual/automatic		
color mode, color enhancement mode, negative mode, monochrome mode, black on white, white on black, blue on white, white on blue, yellow on black, black on yellow, yellow on blue on yellow, green on white, white on green, orange on white, white on orange, red on black, black on red, orange on black, black on orange, yellow on green, green on yellow, red on white, white on red, yellow on white, white on yellow		
TV		
Type-C		
1600mAH (for 4 hours working)		
123x39x76mm (when the handle is folded)		
210g		

STANDARD DELIVERY

Main unit	1 pc
Video output cable	1 pc
USB charging cable	1 pc
Power adapter	1 pc

side and back

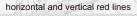


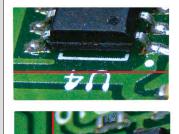


DIGITAL MAGNIFIER CODE 7526-D5











- 720P60 (close view) and 1080P30 (far view) cameras
- Double autofocus
- 26 color modes can be switched to meet the needs of different people
- Adopt folding bracket
- Detachable handle design, suitable for left-handed or right-handed use TV and HDMI ports to TV and display
- Automatic shutdown after 3 minutes

SPECIFICATION

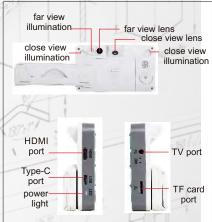
25

Screen size	5 inch	
Screen resolution	800x480	
Magnification	2X-32X	
Close view pixel	8M	
Far view pixel	8M	
Focus	manual/automatic	
Color mode (26 modes)	color mode, color enhancement mode, negative mode, monochrome mode, black on white, white on black, blue on white, white on blue, yellow on black, black on yellow, yellow on blue, blue on yellow, green on white, white on green, orange on white, white on orange, red on black, black on red, orange on black, black on orange, yellow on green, green on yellow, red on white, white on red, yellow on white, white on yellow	
Line	horizontal and vertical red lines	
Function	screen freezing, image moving, photo playback, and high definition storage	
Output	TV and HDMI	
Storage	supports up to 32G TF card	
Charging port	Type-C	
Lithium battery	2500mAH (for 4 hours working)	
Dimension (LxWxH)	145x30x85mm (when the handle is folded)	
Weight	275g	

after the handle is folded, the magnifier can be directly placed on the object for observation



side and back



STANDARD DELIVERY

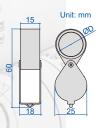
Main unit	1 pc
HDMI cable	1 pc
Video output cable	1 pc
USB charging cable	1 pc
Power adapter	1 pc

FOLDING MAGNIFIER

Glass lens







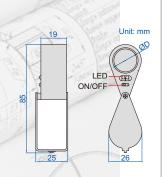
Code	Magnification	Lens diameter (ØD)
7511-8	10X	Ø21mm

FOLDING MAGNIFIER WITH ILLUMINATION



ø299.7		
Code	Magnification	Lens diameter (ØD)
7515-10	10X	Ø21mm





Code	Magnification	Lens diameter (ØD)
7515-10	10X	Ø21mm
- 12777	13311	1///

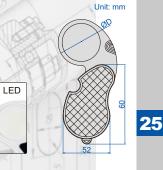
FOLDING MAGNIFIER WITH ILLUMINATION



- Resin lens
- Powered by 2xCR1620 batteries (included)
- LED lights up automatically when opened

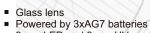
	1.0	
Code	Magnification	Lens diameter (ØD)
7514-1	2.5X	Ø45mm





Code	Magnification	Lens diameter (ØD)
7514-1	2.5X	Ø45mm

MAGNIFIER WITH ILLUMINATION



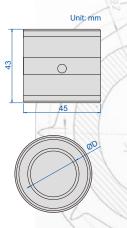
3 pcs LED and 3 pcs UV Base with scale, graduation: 0.5mm, 1/16"



2			121		_
Code	Magnification	Lens diameter (ØD)	L	Н	W
7524-10	10X	Ø30mm	60mm	50mm	56mm
	-4				

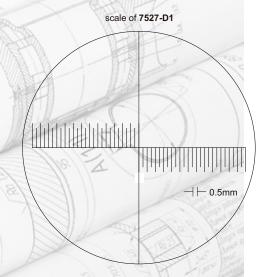


MEASURING MAGNIFIERS (WITH ILLUMINATION)





7527-D1



scale of **7527-D2** (0-5mm graduation: 0.5mm)

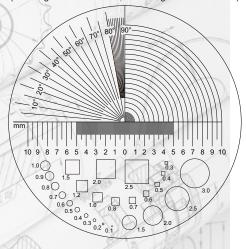


Base with scale

■ With 5 white LED and 5 UV LED

Charging port: Type-CWork for 1.5h after fully charged

Code	Magnification	Lens diameter (ØD)
7527-D1	10X	Ø30mm
7527-D2	10X	Ø30mm



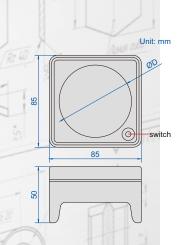
25 **MAGNIFIER WITH ILLUMINATION**

- Glass lens
- With 4 white LED, three levels brightness adjustment
- Charging port: Type-C

1/00				
Code	Magnification	Lens diameter (ØD)		
7528-3	3X	Ø70mm		



7528-3



MAGNIFIERS WITH ILLUMINATION



- Glass lensPowered by 3xAAA batteries (included)



7513-4



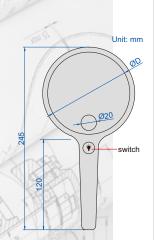
Code	Magnification	Lens diameter (ØD)	L	h
7513-2	2X	Ø75mm	170mm	90mm
7513-4	4X	Ø50mm	145mm	90mm

MAGNIFIER WITH ILLUMINATION

- Resin lensWith 20 white LED, three levels brightness adjustment
 Charging port: Type-C

Code	Magnification	Lens diameter (ØD)
7529-24	2X/4X	Ø105mm





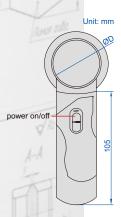
MAGNIFIER WITH TWO LENSES



- Interchangeable lenses
- Powered by 3 pcs AAA batteries (included)







Code	Lens number	Magnification	Lens diameter (ØD)
7522-610	2 pcs	6X	50mm
		10X	37mm

7522-610

nttps://precishop.hu

THREE WAYS MAGNIFIER WITH ILLUMINATION

three ways use







- Resin lens
- Powered by 2xAA batteries (included) or power adapter (110~240V, 50~60Hz)

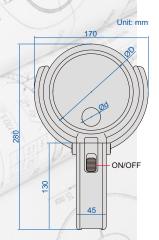
 Code
 Magnification
 Lens diameter (ØD/Ød)

 7512-1
 2X/4X
 Ø120mm/Ø28mm



7512-1





MAGNIFICATION GLASSES



25



7523-3D5

- Resin lens
- Interchangeable lenses
- Powered by 3 pcs AAA batteries (included)

Code	Lens number	Magnification
7523-3D5		1X
	5 pcs	1.5X
		2X
		2.5X
		3.5X

adjustable holder angle



adjustable lens and LED angle







interchangeable lenses



head band (included)



2 pcs LED



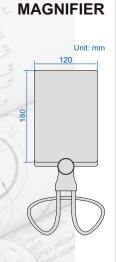




- Resin lens
- Silicone hose can be shaped according to needs
- Can be used on table or hanging around neck

Code	Magnification	Lens size
7530-1D8	1.8X	180x120mm

silicone hose



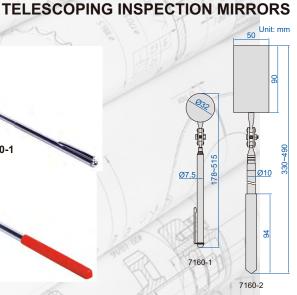
7530-1D8

50 Unit: min

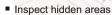
- Inspect hidden areas
 Rotation of the mirror: 360°
- Length of handle is adjustable, handle is made of stainless steel

Code	Size of mirror	Length 178~515mm	
7160-1	Ø32mm		
7160-2	50x90mm	330~490mm	

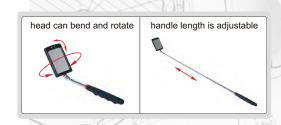




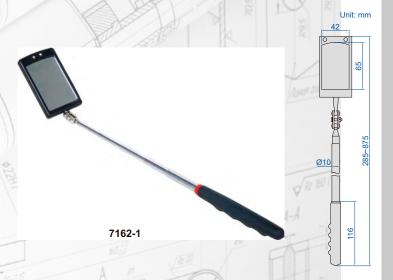
TELESCOPING INSPECTION MIRROR (WITH ILLUMINATION)



- Head can bend and rotate
- Telescoping handle, made of stainless steel
- With two CR2032 batteries



Code	Size of mirror	Length
7162-1	65x42mm	285~875mm



https://precishop.hu



TELESCOPING MAGNETIC PICK-UP AND FLASHLIGHT



■ For illumination and pick up steel parts in hidden areas

■ Head can bend

Telescoping handle, made of stainless steel

Magnetic head and end

With four LR44 batteries



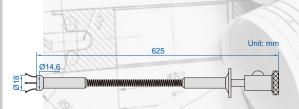


magnetic end to attach on steel surfaces

Code	Magnetic force of the end of the head		Flashlight Battery range life		Length
7163-1	4kgf	2kgf	3m	8h	172~568mm

Unit: mm Ø21.7

FLEXIBLE PICK-UP AND FLASHLIGHT



- For illumination and pick up steel parts in hidden areas
- Flexible spring rod, made of stainless steel
- Three LR44 batteries

25

Code	Magnetic force	Flashlight range	Battery life
7164-1	0.9kgf	1m	24h







7164-1

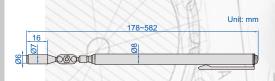


flexible spring rod

flashlight head

4 retractable claws magnetic head

TELESCOPING MAGNETIC PICK-UP



- Pick up steel parts from hidden areas
- Rotation of magnetic head: 360°
- Length of handle is adjustable, handle is made of stainless steel

Code	Size of magnetic tip	Magnetic force	Length
7161-1	Ø6mm	0.45kgf	178~582mm





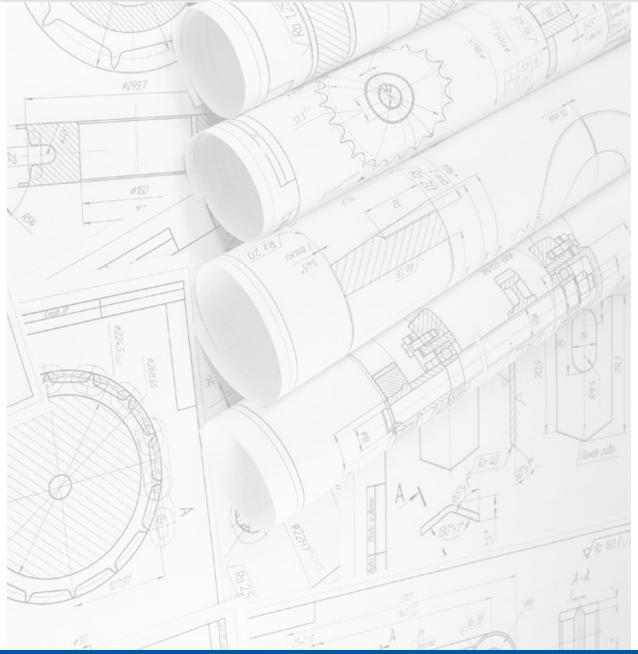
Videoscopes Page 670-682



Pipe Videoscopes Page 683

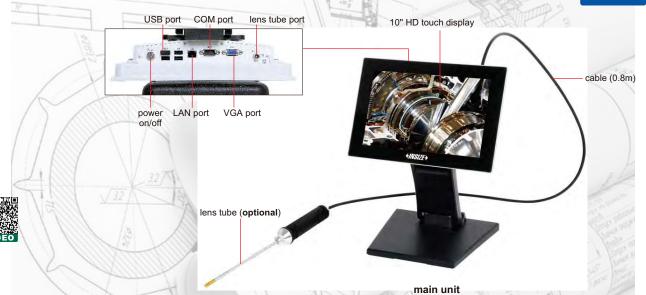


Rigid Borescopes Page 684



VIDEOSCOPE (DESK TYPE)





MAIN UNIT (WITHOUT LENS TUBE)

Code	ISV-Y		
Display	10" HD touch display		
Function	take picture, take video		
File format	picture: JPG, video: MP4		
Memory	built-in hard disk or USB flash disk		
Image process	image zoom (1X, 2X, 3X)		
Image control	noise reduction, negative film, flip over, freeze, on-line edit		
Illumination	stepless adjustment		
Additional function	real-time dynamic annotation, real-time watermark, rapid defect mark		
Output	USB, HDMI		
Power supply	AC/DC adapter (for continuous working)		
Weight	1000g		

1

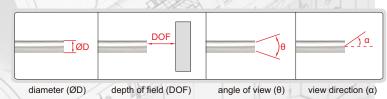
STANDARD DELIEVERY

Main unit	1 pc
USB disk	1 pc
Mouse	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Lens tube	refer to below details		
Software for automatic defect identification	can be customized		



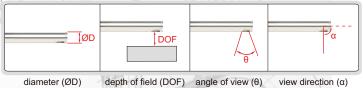


RIGID STRAIGHT LENS TUBE, FRONT VIEW

	Lens tube			Lens							
Code	diameter (ØD)	length (L)	pixel	illumination	angle of view (θ)	depth of field (DOF)	view direction (α)	dust/ waterproof			
ISV-Y1210	1.2mm	90mm	0.04M	6M 6M		3~70mm	0°				
ISV-Y1810	1.8mm	120mm (optional 90-150mm)	0.16M			3~70mm	0°				
ISV-Y2010	2.0mm	120mm (optional 90-150mm)	0.16M			3~70mm	0°				
ISV-Y2410	2.4mm	150mm (optional 90-300mm)	0.16M	rear optical fiber	120°	3~70mm	0°	IP67			
ISV-Y2810	2.8mm	150mm (optional 90-300mm)	0.16M	option liber		3~70mm	0°				
ISV-Y3910	3.9mm	200mm (optional 90-500mm)	1M			8~150mm	0° (optional 30°, 70°)				
ISV-Y6010	6.0mm	300mm (optional 90-1000mm)	1M			12~200mm	0° (optional 30°, 70°)				

To be continued



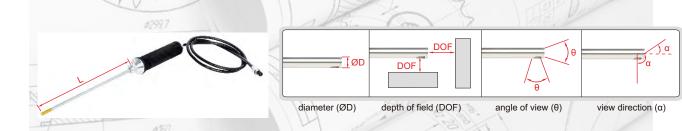


diameter (ØD)

view direction (a)

RIGID STRAIGHT LENS TUBE, SIDE VIEW

Code diameter (ØD)		Lens tube				Lens		
		length (L)	pixel	illumination	angle of view (θ)	depth of field (DOF)	view direction (α)	dust/ waterproof
ISV-Y2810C	2.8mm	150mm (optional 90-300mm)	0.16M	M		3~70mm		
ISV-Y3910C	3.9mm	200mm (optional 90-500mm)	1M rear	er 120°	8~150mm	90°	IP67	
ISV-Y4510C	4.5mm	250mm (optional 90-800mm)	1M optical fiber		8~150mm			
ISV-Y6010C	6.0mm	300mm (optional 90-1000mm)	1M					12~200mm



RIGID STRAIGHT LENS TUBE, FRONT VIEW & SIDE VIEW

	L	ens tube.		Lens								
Code	diameter (ØD)	length (L)	pixel	illumination	angle of view (θ)	depth of field (DOF)	view direction (α)	dust/ waterproof				
ISV-Y6010S	6.0mm	300mm (optional 90-1000mm)	1M	rear optical fiber	120°	front view: 12~200mm side view: 8~150mm	front view: 0° side view: 90°	IP67				





diameter (ØD) depth of field (DOF)

angle of view (θ)

view direction (a) bending angle (β)

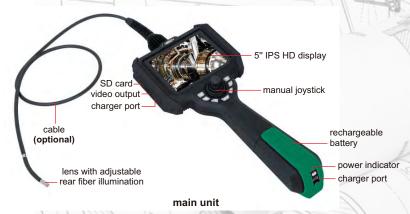
BENDING SPRING LENS TUBE

	Lens	tube	Lens									
Code	diameter (ØD)	length (L)	pixel	illumination	angle of view (θ)	depth of field (DOF)	view direction (α)	bending angle (β)	dust/ waterproof			
ISV-Y3010W	3.0mm		0.16M	e 1		8~150mm		75° (can be customized)	IP65			
ISV-Y5010W	5.0mm	1000mm	1M	rear optical fiber	120°	8~150mm	0°					
ISV-Y7010W	7.0mm		1M	IIDEI		12~200mm		Castolinizou)				

https://precishop.hu

VIDEOSCOPE









changeable lens cable

tripod (included)





ISV-L-HOOK (optional)

ISV-L-MAGNET (optional)

MAIN UNIT (WITHOUT CABLE)

MAIN UNIT (WITH	OUI CABLE)
Code	ISV-L
Display	5" high definition LCD
Resolution	1024×720
Function	take pictures, take videos
File format	picture: JPG, video: MP4
Image process	image zoom (1X, 2X, 3X, 4X)
Image control	freeze, flip over, playback and analog ruler
Memory	memory card
Output	USB, HDMI
Power supply	rechargeable lithium battery (working time ≥ 4hours) AC/DC adapter (for continuous working)
Weight	1000g





ISV-L-CLAMP (optional)

OPERATION ENVIRONMENT

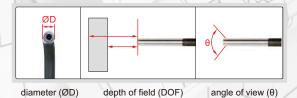
Main unit	-10~50°C, no preheat
Operation temperature	-20~70°C
Storage temperature	-20~60°C
Relative humidity	maximum 90%, no condensation

STANDARD DELIEVERY

• .,	
Main unit	1 pc
32G SD card	1 pc
Card reader	1 pc
USB cable	1 pc
Tripod	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

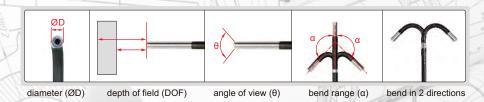
	OI HONAL ACCIOC	
1	Cable	please refer to details
	WIFI output	ISV-L-WIFI (must be installed in factory, only for Android OS)
	Temperature alarm	ISV-L-HTALARM (must be installed in factory, for Ø3.9mm, Ø4.5mm and Ø6.0mm)
	Hook	ISV-L-HOOK (must be installed in factory, for Ø3.9mm, Ø4.5mm and Ø6.0mm)
-	Magnet	ISV-L-MAGNET (must be installed in factory, for Ø3.9mm, Ø4.5mm and Ø6.0mm)
	Clamp	ISV-L-CLAMP



ONE-DIRECTION CABLE (NO BENDING), FRONT VIEW

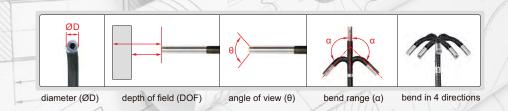
		Cable	Lens									
Code	length	type	view direction	diameter (ØD)	depth of field (DOF)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof		
ISV-L09505	0.5m		front -	0.95mm 3~3	3~30mm		rear fiber		400×400			
ISV-L09510	1m	spring tube			3~3011111					IP65		
ISV-L1210	1m			1.2mm	3~30mm	>120°		0.16M				
ISV-L1510	1m	tungsten wire		1.5mm	2 70							
ISV-L1515	1.5m	weaved cable		1.311111	3~70mm							

To be continued



TWO-DIRECTION BENDING CABLE, FRONT VIEW

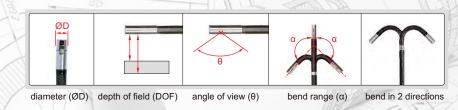
Cable		Lens									
length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)		pixel	resolution	dust/ waterproof
1m			two directions	1.8mm	3~30mm	±160°	>120°	rear fiber	0.16M	400×400	IP65
1m	tungsten			2.0mm	3~30mm						
1m	_	2 2			3~70mm						
1.5m	cable	view		2.4mm	(optional						
2m					5~100mm)						
	1m 1m 1m 1m	Iength type 1m 1m tungsten wire weaved cable	length type view direction 1m 1m 1m 1m wire weaved 2.5m 1.5m	length type view direction bend direction 1m 1m 1m wire wire weaved cable view directions	Iength type view direction bend direction diameter (ØD)	length type view direction bend diameter (ØD) diameter (ODF) 1m tungsten wire weaved cable view directions 1 m tungsten wire weaved cable view directions 1 m tungsten wire weaved cable view directions 2 depth of field (DOF) 1 m two directions 2 - 2 mm 2 - 2 mm 3 ~ 70 mm (optional)	length type view direction bend direction diameter (ØD) depth of field (DOF) bend of field (DOF) 1m tungsten wire weaved cable two directions 2.4mm 3~30mm 2.4mm 3~70mm (optional control optional co	length type view direction bend direction diameter $(\emptyset D)$ diameter $(\emptyset D)$ bend of field (DOF) (α) view (θ) (α) (α)	Ilength type view direction bend direction diameter $(\varnothing D)$ diameter $(\varnothing D)$ diameter $(\varnothing D)$ bend range of view (ϑ) illumination tungsten wire weaved cable front view two directions 1.8mm 3~30mm 2.4mm 3~70mm 2.4mm optional 1.60° 1.60°	length type view direction bend direction diameter (ØD) depth of field (DOF) bend field (DOF) angle of view (θ) illumination pixel 1m tungsten wire weaved cable two view view directions 1.8mm 3~30mm 3~30mm ±160° >120° rear fiber 0.16M	Ilength type view direction bend direction diameter $(\emptyset D)$ diameter $(\emptyset D)$ diameter $(\emptyset D)$ bend field (DOF) bend range of view (\emptyset) illumination pixel resolution



FOUR-DIRECTION BENDING CABLE, FRONT VIEW

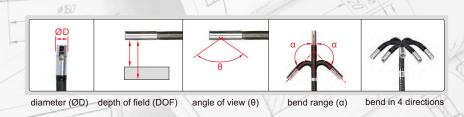
	C	able					L	ens.				
Code	length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof
ISV-L2810	1m					0.70						
ISV-L2815	1.5m				2.8mm	3~70mm (optional				0.16M	400×400	IP65
ISV-L2820	2m				2.0111111	5~100mm)				U. TOIVI	400^400	IF05
ISV-L2830	3m					ĺ						
ISV-L3910	1m								rear fiber			
ISV-L3915	1.5m					0.450						
ISV-L3920	2m				3.9mm	8~150mm (optional				0.92M	1280×720	IP67
ISV-L3930	3m	tungsten			ur	3~70mm)	±160°			0.92101	1200~720	11 07
ISV-L3940	4m	wire	front	four		,		>120°				
ISV-L3950	5m	weaved	view	directions								
ISV-L6010	1m	cable										
ISV-L6015	1.5m											
ISV-L6020	2m					12~200mm						
ISV-L6030	3m				6.0mm	(optional				0.92M	1280×720	IP67
ISV-L6040	4m	m				3~70mm,				0.92101	1200×720	IP6/
ISV-L6050	5m					8~150mm)						
ISV-L6060	6m											
ISV-L6070	7m											

To be continued



TWO-DIRECTION BENDING CABLE, SIDE VIEW

	Cable		Lens										
Code	length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof	
ISV-L1810C	1m	tungsten wire		two	1.8mm	3~30mm	±160°	>120°	rear fiber	0.16M	400×400	IP65	
ISV-L1815C	1.5m	1.5m weaved cable	side view	directions	1.011111	3~30111111						11705	

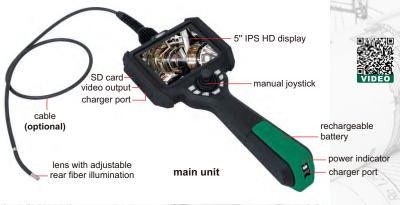


FOUR-DIRECTION BENDING CABLE, SIDE VIEW

	C	able					L	ens				
Code	length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof
ISV-L2810C	1m											
ISV-L2815C	1.5m				2.8mm	3~70mm				0.16M	400×400	IP65
ISV-L2820C	2m				2.011111	3.40111111	±160°		rear fiber	U. IOIVI	400^400	1600
ISV-L2830C	3m											
ISV-L4510C	1m				4.5mm	5~100mm (optional 8~150mm)						
ISV-L4515C	1.5m	tungsten						>120°		0.92M		
ISV-L4520C	2m	wire	side view	four								
ISV-L4530C	3m	weaved	Side view	directions								
ISV-L6010C	1m	cable									960×720	IP67
ISV-L6015C	1.5m										300~720	11 07
ISV-L6020C	2m				6.0mm	8~150mm						
ISV-L6030C	3m				0.0/11/11	(optional 5~100mm)						
ISV-L6040C	4m											
ISV-L6050C	5m											

FRONT AND SIDE VIEW VIDEOSCOPE

REAR FIBER









tripod (included)

ISV-S-MAGNET (optional)



ISV-S-CLAMP (optional)

MAIN UNIT (WITHOUT CABLE)

Code	ISV-S
Display	5" high definition LCD
Resolution	1024×720
Function	take pictures, take videos
File format	picture: JPG, video: MP4
Image process	image zoom (1X, 2X, 3X, 4X)
Image control	freeze, flip over, playback and analog ruler
Memory	memory card
Output	USB, HDMI
Power supply	rechargeable lithium battery (working time ≥ 4hours) AC/DC adapter (for continuous working)
Weight	1000g

STANDARD DELIEVERY

Main unit	1 pc
32G SD card	1 pc
Card reader	1 pc
USB cable	1 pc
Tripod	1 pc
AC/DC adapter	1 pc

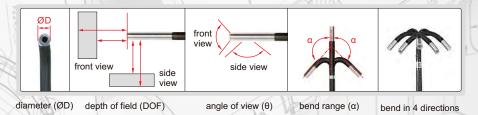
OPTIONAL ACCESSORY

ISV-S-HOOK (optional)

Cable	please refer to details		
WIFI output	ISV-S-WIFI (must be installed in factory, only for Android OS)		
Temperature alarm	ISV-S-HTALARM (must be installed in factory)		
Hook	ISV-S-HOOK (must be installed in factory)		
Magnet	ISV-S-MAGNET (must be installed in factory)		
Clamp	ISV-S-CLAMP		

OPERATION ENVIRONMENT

Main unit	-10~50°C, no preheat	
Operation temperature	-20~70°C	
Storage temperature	-20~60°C	
Relative humidity	maximum 90%, no condensation	



FOUR-DIRECTION BENDING CABLE, FRONT VIEW&SIDE VIEW

	С	able					Ler	าร				
Code	length	type	view direction	bend direction	diameter (ØD)	depth of field (DOF)	bend range (α)	angle of view (θ)	illumination	pixel	resolution	dust/ waterproof
ISV-S6010	1m					front view:						
ISV-S6015	1.5m	tungsten				12~200mm (optional						
ISV-S6020	2m	wire	front view	four	6.0mm	3~70mm)	±160°	>120°	rear fiber	0.92M	1280×720	IP67
ISV-S6030	3m	weaved cable	and side view	directions	0.0111111	side view:	±100°	~12U°	rear liber	0.92101	1200^720	IF 01
ISV-S6040	4m	Cable				8~150mm (optional						
ISV-S6050	5m					3~70mm)						

tungsten wire weaved cable length: 1.5m

changeable lens cable



ISV-K-CLAMP (optional)





SD card

video output charger port

lens with adjustable rear fiber illumination



5" IPS HD display

manual joystick





ISV-K-HOOK (optional)

ISV-K-MAGNET (optional)

diameter (ØD)

ISV-K6015

depth of field (DOF)

angle of view (θ)

rechargeable battery

power indicator

charger port

REAR FIBER

bend range (a)

bend

SPECIFICATION

Code		ISV-K1810	ISV-K2410	ISV-K2810	ISV-K3915	ISV-K6015					
	diameter (ØD)	1.8mm	2.4mm	2.8mm	3.9mm	6.0mm					
	pixel	0.16M			0.92M						
	resolution	400×400		1280×720							
	depth of field	3-30mm	3-70mm	3-70mm	8-150mm	12-200mm					
	bending direction	two directions	two directions	four directions	four directions	four directions					
Lens	bending range (α)	±160°									
	angle of view (θ)	120°	120°								
	illumination	rear fiber									
	lens	sapphire glass lens									
	dust/waterproof	IP65									
	bend control	manual joystick									
Cable	length	1m	1m	1m	1.5m	1.5m					
Cable	type	tungsten wire weaved cable									
	display	5" high definition LCD									
	function	take pictures, take videos									
	file format	picture: JPG, video: MP4									
Main	image process	image zoom (1X, 2X, 3X, 4X)									
unit	image control	freeze, flip over, playback and analog ruler									
	memory	memory card									
	output	USB, HDMI									
	power supply	rechargeable lithium battery (working time ≥ 4 hours), AC/DC adapter (for continuous working)									
Weight		1000g									

STANDARD DELIEVERY

Main unit	1 pc
32G SD card	1 pc
Card reader	1 pc
USB cable	1 pc
Tripod	1 pc
AC/DC adapter	1 pc

OPERATION ENVIRONMENT

Main unit	-10~50°C, no preheat			
Operation temperature	-20~70°C			
Storage temperature	-20~60°C			
Relative humidity	maximum 90%, no condensation			

OPTIONAL ACCESSORY

	WIFI output	ISV-K-WIFI (must be installed in factory, only for Android OS)	
17.00	Temperature alarm	ISV-K-HTALARM (must be installed in factory, for ISV-K3915 and ISV-K6015)	
	Hook	ISV-K-HOOK (must be installed in factory, for ISV-K3915 and ISV-K6015)	
	Magnet	ISV-K-MAGNET (must be installed in factory, for ISV-K3915 and ISV-K6015)	
	Clamp	ISV-K-CLAMP	



MOBILE PHONE VIDEOSCOPE CODE ISV-P6





bending of lens up to 180°



angle of view



lens with LED



bend in any direction

SPECIFICATION

■ For Android and IOS mobile phones

Diameter of lens (ØD)	6±0.2mm
Length of cable	1m
Resolution	960×720, 1280×720 (switchable)
Depth of field	20mm~∞
Angle of view (θ)	100°
Bending range (α)	0~180°
Illumination	LED with 3 levels control
Cable type	wear resistant
Interface	USB, Type-C
Mobile phone system	Android, IOS
Power supply	rechargeable battery (for 2 hours working)
Dimension (L×W×H)	195×57×105mm
Weight	450g

STANDARD DELIVERY

Main unit (with cable)	1 pc
Type-C cable	1 pc
Micro USB cable	1 pc
Iphone cable	1 pc
Charging cable	1 pc

VIDEOSCOPES (BASIC TYPE)

TUNGSTEN WIRE WEAVED CABLE BREAK AND WEAR RESISTANCE



3.5" IPS HD full-view display



ISV-S106

SPECIFICATION

Code		ISV-T105	ISV-S106				
	diameter (ØD)	6mm					
	pixel	1M					
	resolution	1280×720					
	depth of field	20~150mm					
	bending direction	360°					
	bending range (α)	0°~220°					
Lens	angle of view (θ)	120°					
	illumination	7 pcs LED, with 6 levels control					
	illuminance	25000 Lux					
	lens	sapphire glass lens					
	dust/waterproof	IP67					
	bend control	manual joystick					
	temperature alarm	temperature sensor (optional)					
Cable	length	1m 1.5m					
Cable	type	tungsten wire weaved cable					
	display	3.5" IPS full-view display					
	display resolution	640×480					
	function	take pictures, take videos					
	file format	picture: JPG, video: MP4					
	image process	image zoom (1X, 2X, 3X, 4X, 5X	<u>(</u>)				
Main unit	memory	memory card (Maximum: 64G)					
	output	USB, HDMI, WIFI (optional)					
	dust/waterproof	IP65					
	power supply	rechargeable lithium battery (working time ≥ 3 hours; optional: additional battery, working time ≥ 9 hours) AC/DC adapter (for continuous working)					
Weight		1000g					



220° bending angle



120° view angle



LED 6 levels control



360° bending direction

STANDARD DELIVERY

Main unit (with cable & lens)	1 pc
16G SD card	1 pc
Card reader	1 pc
USB cable	1 pc
Battery	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Additional battery	ISV-S106-BATTERY (must be installed in factory)	
WIFI output	ISV-S106-WIFI	
Temperature alarm	ISV-S106-HT-ALARM	

VIDEOSCOPE (BASIC TYPE) CODE ISV-E40







magnet pick up (included)



hook (included)



45° mirror (included)

SPECIFICATION

	diameter (ØD)	8mm	
	pixel	0.92M	
	resolution	1280x720	
Lens	depth of field	30~80mm	
	angle of view	77°	
	illumination	3 levels	
	dust/waterproof	IP67	
Cable	length	1180mm	
	type	memory (can be set at any shape)	
	display	5" IPS LCD	
	function	take picture, take video	
	file format	picture: JPG, video: MOV	
Main	image process	image zoom (1.5X, 2X, 3X, 4X)	
unit	memory	memory card (optional)	
	output	Type-C	
	power supply	rechargeable lithium battery (for 5 hours working)	
	dimension	217×155×131mm	
Weight		506g	

STANDARD DELIVERY

Main unit	1 pc
45° mirror	1 pc
Hook	1 pc
Magnet pick up	1 pc

OPTIONAL ACCESSORY

32G memory card	ISV-E40-CARD	
Card reader	ISV-E40-READER	

OPERATION ENVIRONMENT

Operation temperature	-10~50°C
Storage temperature	-20~60°C
Operation humidity	15%~85%

VIDEOSCOPE (ECONOMIC TYPE) CODE ISV-E30

MEMORY CABLE CAN BE FIXED AT ANY SHAPE









magnet pick up (included)



hook (included)



cable can be wrapped around the main unit

SPECIFICATION

26

SPECIF	CATION	(A)	
Lens	diameter	5.2mm	
	pixel	0.4M	
	depth of field	30~80mm	
	angle of view	72°	
	illumination	8 levels	
	dust/waterproof	IP67	
Cable	length	1m	
	type	memory (can be set at any shape)	
	display	4.3" LCD	
	function	take picture, take video	
	file format	picture: JPG, video: AVI	
Main unit	image zoom	2X	
	memory card	memory card (optional)	
	output	micro USB	
	power supply	AA battery	
	dimension	154×32.5×87.5mm	
Weigh	t	280g	

STANDARD DELIVERY

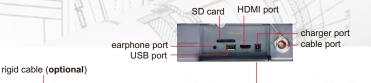
	- N
Main unit	1 pc
Hook	1 pc
Magnet pick up	1 pc
AA battery	4 pcs

OPTIONAL ACCESSORY

32G memory card	ISV-E40-CARD
Card reader	ISV-E40-READER

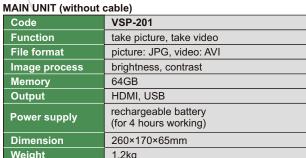
OPERATION ENVIRONMENT

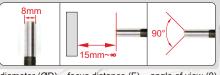
Operation temperature	-10~50°C
Storage temperature	-20~60°C
Operation humidity	15%~85%



main unit

Code	VSP-201	
Function	take picture, take video	
File format	picture: JPG, video: AVI	
Image process	brightness, contrast	
Memory	64GB	
Output	HDMI, USB	
Power supply	rechargeable battery (for 4 hours working)	
Dimension	260×170×65mm	
Weight	1.2kg	





diameter (ØD) focus distance (F) angle of view (θ)



360° swivel in bend within 120° direction clockwise and counter-clockwise

FOUR-DIRECTION BENDING CABLE (FRONT VIEW)

Code		VSP-201D
	length	3m
Cable	type	tungsten wire weaved cable
	diameter (ØD)	8mm
Lens	focus distance (F)	15mm~∞
	angle of view (θ)	90°
	illumination	6 pcs LED
	pixel	1M
	resolution	1280×720
	dust/waterproof	IP67





To be continued



Continued from previous page





RIGID CABLE

Code		VSP-201H
Cable	length (L)	250mm
	type	stainless steel
	diameter (ØD)	6.4mm
Lens	focus distance (F)	15mm~∞
	angle of view (θ)	90°
	illumination	6 pcs LED
	pixel	1M
	resolution	1280×720
	dust/waterproof	IP64



diameter (ØD) focus distance (F)

angle of view (θ)

ROTATING LENS CABLE

Code		VSP-201R
	length	30m
Cable	type	high strength glass fibre
Lens	diameter (ØD)	40mm
	focus distance (F)	3mm~∞
	angle of view (θ)	100°
	illumination	12 pcs LED
	pixel	1M
	resolution	1280×720
	dust/waterproof	IP67
	lens control	motorized



indicator of cable working length (resolution: 0.01m)

support wheel (included)



rotating lens







±90° rotation in radial direction, ±180° rotation in axial direction

diameter (ØD)

focus distance (F)

WIDE-ANGLE LENS CABLE

26

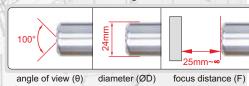
Code		VSP-201W
	length	30m
Cable	type	high strength glass fibre
Lens	diameter (ØD)	24mm
	focus distance (F)	25mm~∞
	angle of view (θ)	100°
	illumination	12 pcs LED
	pixel	1M
	resolution	1280×720
	dust/waterproof	IP67



indicator of cable working length (resolution: 0.01m)

support wheel (included)

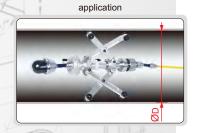
wide-angle lens



ADJUSTABLE SUPPORT

Code	Working diameter (ØD)	Remark
VSP-201-R200	60~200mm	for VSP-201R or VSP-201W







ATTENTION: RESISTANCE TO ACID AND ALKALI LIQUID (CONSULT IS NEEDED)

PIPE VIDEOSCOPE CODE ISV-VP280













angle of view



can turn at least two times in the pipe (>Ø40mm)



Ø50mm centering ring (optional) fixed on the lens to center lens in the pipe



Ø100mm brush (included) fixed on the lens to clean the internal wall of pipes

SPECIFICATION

00	OAHOH		
	diameter	28mm	
	dust/waterproof	IP68	
Lens	pixel	0.3M	
	resolution	640×480	
	frame	30fps	
	length	30m	
Cable	dust/waterproof	IP68	
	type	semi-rigid	
	function	take picture and video	
	file format	picture: JPG, video: ASF	
Main	image process	mirror, rotate, zoom (1.5X, 2X)	
unit	memory	4G SD card	
	output	TV, USB	
	power supply	4×AA batteries	
Weigh	t	5kg	

STANDARD DELIVERY

Main unit	1 pc
Cable with lens	1 pc
Stand	1 pc
Indicator of cable working length	1 pc
4G SD card	1 pc
Ø100mm brush	1 pc
AA battery	4 pcs
AAA battery	2 pcs
Video output cable	1 pc
USB cable	1 pc

OPTIONAL ACCESSORY

Ø50mm centering ring	ISV-VP280-R50
Ø150mm brush	ISV-VP280-B150





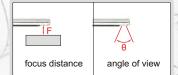
ISV-1H4300



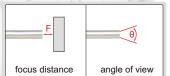




view direction α=30° or 70°



view direction α=90°



ØD

view direction 0°



- depth of view: 5~100mm

 Dust/waterproof level: IP67
- Can be used in liquid with temperature -10°C~85°C



LED light handle (optional)



adjustable LED light source (optional)



camera and display (optional)

SPECIFICATION

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Code	Length (L)	View direction (α)	Diameter (ØD)	Angle of view (θ)
ISV-1H4170	174mm	0°		
ISV-1H4173	174mm	30°		
ISV-1H4177	174mm	70°		
ISV-1H4179	166mm	90°	4mm	≥60°
ISV-1H4300	302mm	0°		
ISV-1H4303	302mm	30°		
ISV-1H4307	302mm	70°		

OPTIONAL ACCESSORY

LED light handle	ISV-1HLED
Adjustable LED light source	ISV-1LED1
Camera and display	ISV-2CAM

For rigid borescopes





charger (included)

LED LIGHT HANDLE CODE ISV-1HLED



SPECIFICATION

Power	3W
Battery	3.7V rechargeable battery (for 2 hours working)
Dimension	120×27×27mm
Weight	300g

STANDARD DELIVERY

Main unit	1 pc
Battery	1 pc
Charger	1 pc

ADJUSTABLE LED LIGHT SOURCE **CODE ISV-1LED1**

- For rigid borescopes
- High LED illumination and brightness is adjustable
 For long time work with low noise

SPECIFICATION

Color temperature	5600K	
Cooling	fan cooling	
Power	AC110~220V, 50/60Hz	
Dimension	400×300×112mm	
Weight	7kg	





Main unit	1 pc
1.8m optical fiber cable	1 pc



TAKE PICTURES AND VIDEOS

AUTO FOCUS



- For rigid borescopes
- 1080P high-definition image
- Auto-focus camera
- Take pictures and videos, saved to USB flash disk
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable

SPECIFICATION

SPECIFICATION	
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	350×100×430mm
Weight	2kg



HDMI port

CAMERA (WITH DISPLAY) CODE ISV-2CAM

13.3" LCD



USB port

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Camera	1 pc
Connector	1 pc
13.3" LCD (with stand)	1 pc
16G USB flash disk	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	2 pcs

connector

power port

mouse



16G USB flash disk (included)