



LARGE SIZE QUICK MEASUREMENT SYSTEM CODE QMS-A450



SPECIFICATION

Optical lens		dual-field dual-telecentric low-distortion lens	
Measurement range		wide view field 500×400mm	small view field 430×350mm
Measurement Accuracy *	without stitching	±3μm ^①	±1μm ^②
	with stitching	±(5+0.02L)μm ^③	±(3+0.02L)μm ^④
Repeatability	without stitching	±1μm	±0.5μm
	with stitching	±2μm	±1.5μm
Illumination system	transmission light	telecentric illuminator, green light	
	surface light	vertical illuminator, high angle ring white light vertical illuminator, 4-zone low and medium angle ring white light (electric) vertical illuminator, circular (directional) green light (electric)	
	coaxial light (optional)	vertical illuminator, white light	
Max. weight of workpiece		25kg	
Measurement time		<2s	
Measurement data		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

- ① Within 73×49mm, on focal position and environment temperature at 20°C±1°C
- ② Within 16×12mm, on focal position and environment temperature at 20°C±1°C
- ③ Within 450×360mm, on focal position and environment temperature at 20°C±1°C
- ④ Within 387×315mm, on focal position and environment temperature at 20°C±1°C

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- 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

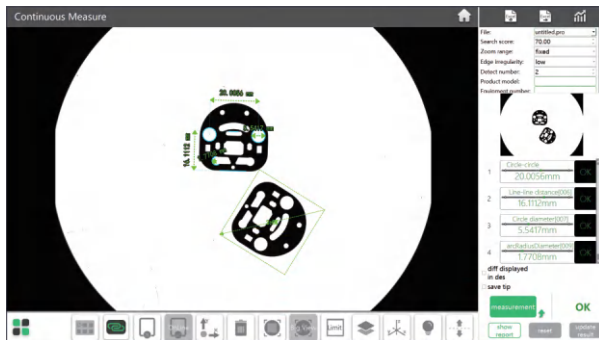
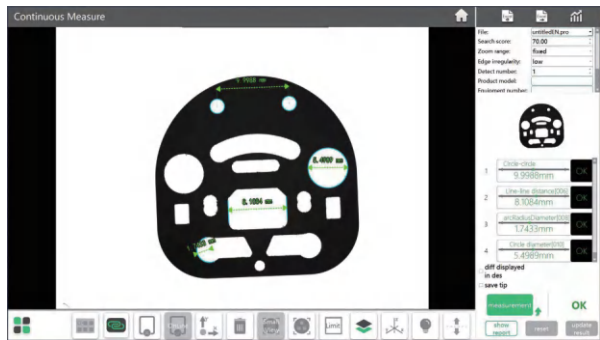
Main unit	1 pc
Computer	1 pc
Software	1 pc

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



SMALL VIEW FIELD SUITABLE FOR MEASURING
SMALL SIZES SUCH AS THREADS AND CHAMFERS

HIGH PRECISION QUICK MEASUREMENT SYSTEM CODE QMS-H210



SPECIFICATION

Optical lens		dual-field dual-telecentric low-distortion lens	
Measurement range		wide view field	small view field
		210×130mm	200×100mm
Measurement Accuracy	without stitching	±2μm ^①	±0.7μm ^②
	with stitching	±(4+0.02L)μm ^③	±(2.7+0.02L)μm ^④
Repeatability	without stitching	±1μm	±0.25μm
	with stitching	±2μm	±1.25μm
Illumination system	transmission light	telecentric illuminator, green light	
	surface light	vertical illuminator, high angle ring white light vertical illuminator, 4-zone low and medium angle ring white light (electric) vertical illuminator, circular (directional) green light (electric)	
	coaxial light	vertical illuminator, white light	
Max. weight of workpiece		5kg	
Measurement time		<2s	
Measurement data		2D measurement	
Environmental requirement		temperature: 20°C±2°C, relative humidity: 30%~80%, vibration: <0.002g, less than 15Hz	
Power supply		220V, 50Hz, 600W	
Dimension (L×W×H)		460×515×740mm	
Weight		45kg	

* The optimum temperature is 20°C±1°C

① Within 20×20mm, on focal position and environment temperature at 20°C±1°C

② Within 8×5mm, on focal position and environment temperature at 20°C±1°C

③ Within 189×117mm, on focal position and environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage

④ Within 180×90mm, on focal position and environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage

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- 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 300+workpieces
- Suitable for parts with high precision for medium and small sizes

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc



rotary table (optional)



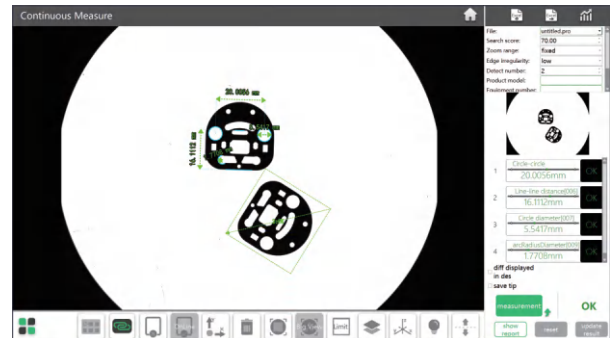
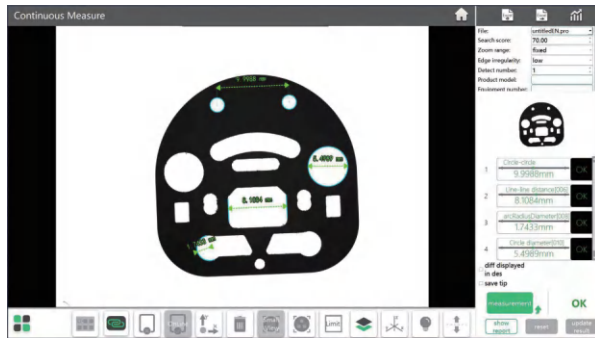
11.6" LCD (optional)

OPTIONAL ACCESSORY

Data transmission function of software	QMS-23-D1
CAD import function of software	QMS-23-C1
Laser sensor	QMS-43-SJ1 (must be installed in factory)
Foot-switch	QMS-43-FS1
11.6" LCD	QMS-23-B1 (must be installed in factory)
MES transmission function of software	QMS-23-E1
Rotary table	QMS-43-RT1 (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



SMALL VIEW FIELD OF QMS-A220 AND QMS-A315 SUITABLE FOR MEASURING SMALL SIZES SUCH AS THREADS AND CHAMFERS

QUICK MEASUREMENT SYSTEMS (WITH STITCHING)



QMS-A220

coaxial light illumination (optional)

software (included)



computer (included)

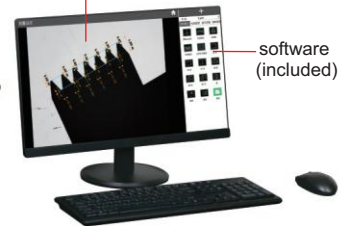
coaxial light illumination (optional)



QMS-A320

computer (included)

software (included)



SPECIFICATION

Code		QMS-A220		QMS-A315		QMS-A320	
Optical lens		dual-field dual-telecentric low-distortion lens					
View field range		wide view field	small view field	wide view field	small view field	wide view field	small view field
Measurement range		93×62mm	20×16mm	100×80mm	25×20mm	150×110mm	50×35mm
Measurement accuracy *		±3μm ^①	±1μm ^②	±3μm ^①	±1μm ^②	±5μm ^③	±2μm ^④
Repeatability		±1μm	±0.5μm	±1μm	±0.5μm	±1μm	±0.5μm
Max. weight of workpiece		5kg					
Measurement time		<2s					
Measurement data		2D measurement					
Power supply		220V, 50Hz, 600W					
Illumination system	back light	telecentric illuminator, green light					
	ring light	4-zone circular white high light circular (directional) low-angle green light (electric)					
	coaxial light (optional)	vertical illuminator, white light					
Environmental requirement		temperature: 20°C±2°C, relative humidity: 30%~80%, vibration: <0.002g, less than 15Hz					
Dimension (L×W×H)		532×480×766mm		532×497×766mm		669×510×883mm	
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
- ⑤ 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
- ⑥ 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
- ⑦ 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
- ⑧ Within 207×117mm, on focal position, environment temperature at 20°C±1°C, and workpiece is less than 2kg, L is the travel of stage
- ⑨ 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
- ⑩ 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

To be continued

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- 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

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc



rotary table (optional)



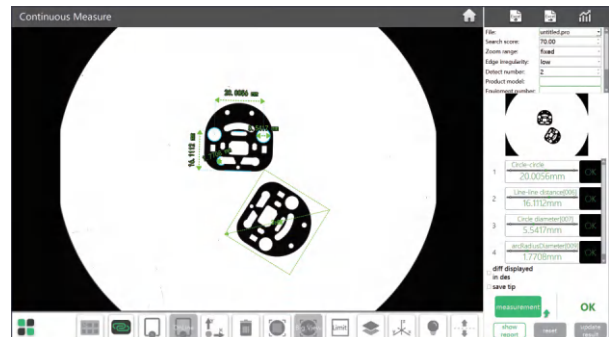
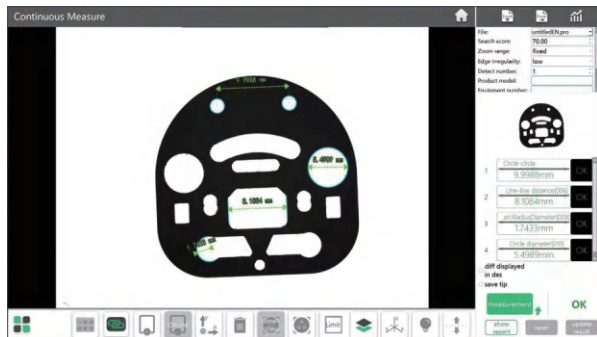
11.6" LCD (optional)

OPTIONAL ACCESSORY

Coaxial light illumination	QMS-23-A3 (for QMS-A220, QMS-A315) 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)
Rotary table	QMS-43-RT1 (must be installed in factory)

Software (included)

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

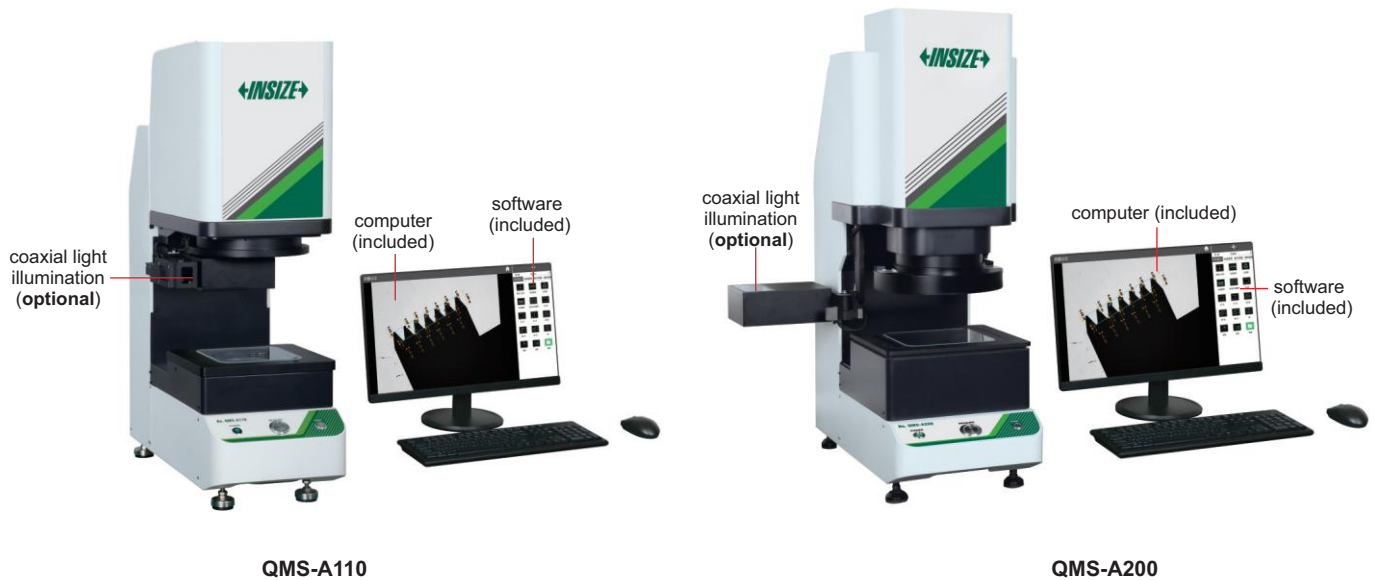


- Measuring result can be stored automatically. OK items and NG items can be counted automatically



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	
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 range	100×80mm	wide view field 150×110mm	small view field 50×35mm
Measurement range (X×Y)	98×78mm	148×108mm	48×33mm
Measurement accuracy *	±3µm ①	±5µm ②	±2µm ③
Repeatability	±1µm	±1µm	±0.5µm
Max. weight of workpiece	5kg		
Measurement time	<2s		
Measurement data	2D measurement		
Power supply	220V, 50Hz, 600W		
Illumination system	back light	telecentric illuminator, green light	
	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		
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

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- 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



11.6" LCD (optional)

STANDARD DELIVERY

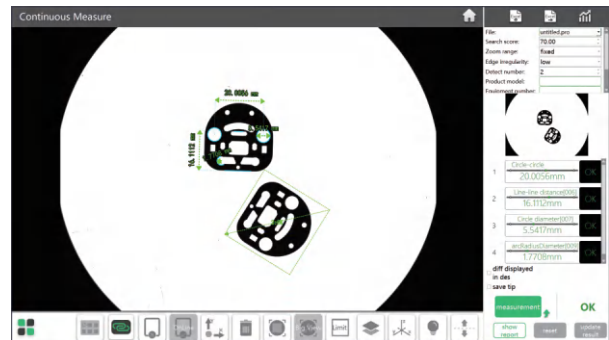
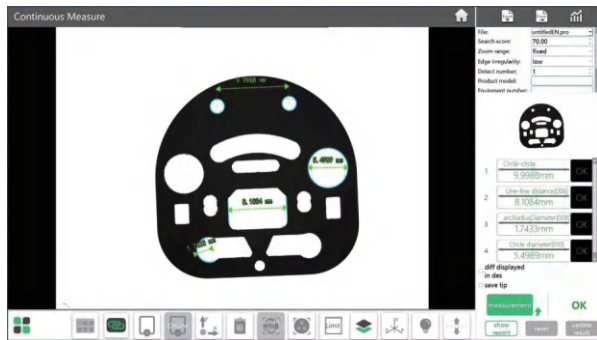
Main unit	1 pc
Computer	1 pc
Software	1 pc

OPTIONAL ACCESSORY

Coaxial light illumination	QMS-23-A3 (for QMS-A110) 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



CNC VISION MEASURING SYSTEMS (STANDARD TYPE)



- 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 671~672)

SPECIFICATION

Code	motorized zoom lens	ISD-V220ZA	ISD-V220ZHN	ISD-V270ZA	ISD-V270ZHN	ISD-V370ZA	ISD-V370ZHN
	manual 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 size		450×280mm	450×280mm	500×330mm	500×330mm	606×466mm	606×466mm
Glass stage size		306×196mm	306×196mm	350×250mm	350×250mm	450×350mm	450×350mm
Resolution of X/Y/Z axis		0.5μm					
Accuracy 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)	
Repeatability of X/Y axis		2μm					
Objective		0.7X~4.5X (zoom)					
Working distance		92mm					
Magnification		33.0X~208.6X (with manual zoom lens, on 24" monitor) 31.9X~188.7X (with motorized zoom lens, on 24" monitor)					
Camera		giga-bit network camera					
Illumination	surface	coaxial light, programmable segmented ring light					
	contour	adjustable LED light					
View field (diagonal length)		1.5~10.8mm					
Max. height of 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

To be continued

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software flash disk
(included)



laser probe (optional)
measuring accuracy is 5µm

STANDARD DELIVERY

Main unit	1 pc
Software	1 pc
Computer	1 pc
24" display	1 pc
Len with coaxial light	1 pc
Controller	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Anti-dust cover	1 pc

desk (optional)



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)
2X auxiliary objective	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 671~672 for details

real-time image

X/Y/Z axis

light controller

magnification of selected points

measuring objects

measuring results

measuring tools

movement controller

measuring graphic

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*Y*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 axis	0.5µm			
Accuracy of X/Y axis	≤(2.5+L/200)µm (L is measuring length in mm)			
Repeatability of X/Y axis	2µm			
Objective	0.7X~4.5X (zoom)			
Working distance	92mm			
View field (diagonal length)	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		
	contour	adjustable LED light		
Max. height of workpieces	200mm		400mm	
Max. weight of workpieces	30kg			
Operation system	Windows 7/10			
Drive method	automatic			
Power supply	220V, 50/60Hz			
Dimension (L*W*H)	1270×1200×1870mm	1405×1260×1870mm	1270×1200×2070mm	1405×1260×2070mm
Weight	870kg	1000kg	900kg	1030kg

To be continued

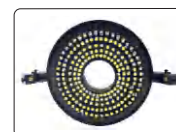
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STANDARD DELIVERY

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



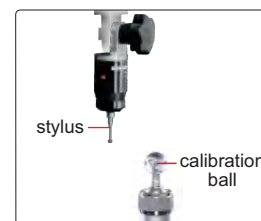
lens with coaxial light (included)



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 671~672 for details

The screenshot shows the INSIZE software interface with several key components labeled:

- real-time image:** The main window displays a circular target with two black lobes.
- X/Y/Z axis:** A 3D coordinate system is visible in the bottom right corner.
- light controller:** A panel on the right side of the interface allows for controlling the light source.
- magnification of selected points:** A zoomed-in view of the target's center is shown in the bottom right.
- measuring objects:** The bottom left panel lists various geometric elements like ARCT, LNK, and LNK.
- measuring results:** The bottom center panel displays numerical data for the selected elements.
- measuring tools:** A central toolbar contains various measurement and analysis tools.
- movement controller:** A panel on the right side of the interface allows for moving the probe or camera.
- measuring graphic:** The bottom right panel shows a graphical representation of the measured points and their relationships.