

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	
weasurement ra	iige	500×400mm	430×350mm	
Measurement * without stitching		±3µm ^①	±1µm ^②	
Accuracy	with stitching	±(5+0.02L)μm③	±(3+0.02L)µm④	
Densetability	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 w	vorkpiece	25kg		
Measurement tir	me	<2s		
Measurement da	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

Within 73×49mm, on focal position and environment temperature at 20°C±1°C
 Within 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

④Within 387×315mm, 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
- 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

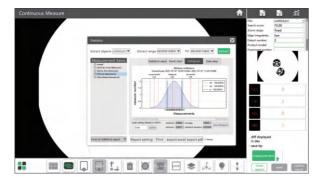
OPTIONAL ACCESSORY

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









HIGH PRECISION QUICK MEASUREMENT SYSTEM CODE QMS-H210

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





SPECIFICATION

Optical lens		dual-field dual-telecentric low-distortion lens			
Measurement range		wide view field	small view field		
Measurementra	ilge	210×130mm	200×100mm		
Measurement * without stitching		±2µm ^①	±0.7µm②		
Accuracy	with stitching	±(4+0.02L)µm ^③	±(2.7+0.02L)µm④		
Repeatability	without stitching	±1µm	±0.25µm		
Кереатарінту	with stitching	±2µm	±1.25µm		
	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	vertical illuminator, white light			
Max. weight of workpiece		5kg			
Measurement tir	ne	<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

(a) Within 8×5 mm, on focal position and environment temperature at $20^{\circ}C\pm 1^{\circ}C$ (a) Within 189×117 mm, on focal position and environment temperature at $20^{\circ}C\pm 1^{\circ}C$, 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

To be continued

<i>+INSIZE

- 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



rotary table (optional)



11.6" LCD (optional)

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc

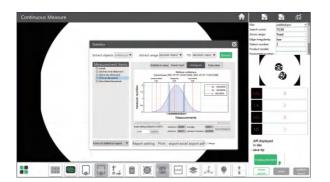
OPTIONAL ACCESSORY

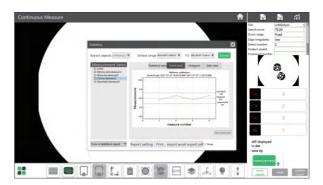
Data transmission function of software	QMS-23-D1
CAD import function of software	QMS-23-C1
Laser sensor	QMS-43-SJ1 (must be installed in factory)
Foot-switch	QMS-43-FS1
11.6" LCD	QMS-23-B1 (must be installed in factory)
MES transmission function of software	QMS-23-E1
Rotary table	QMS-43-RT1 (must be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

Software (included)

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









QUICK MEASUREMENT SYSTEMS (WITH STITCHING)

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



SPECIFICATION

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	je	93×62mm	20×16mm	100×80mm	25×20mm	150×110mm	50×35mm
Measurement	range	200×200mm	130×130mm	300×200mm	230×130mm	300×210mm	200×135mm
Measurement	without stitching	±3µm①	±1µm@	±3µm①	±1µm@	±5µm ^③	±2µm④
accuracy *	with stitching	±(5+0.02L)µm⑤	±(3+0.02L)µm⑥	±(5+0.02L)µm⑦	±(3+0.02L)µm®	±(7+0.02L)µm	±(4+0.02L)µm ¹
Repeatability	without stitching	±1µm	±0.5µm	±1µm	±0.5µm	±1µm	±0.5µm
Кереаларііцу	with stitching	±2µm	±1.5µm	±2µm	±1.5µm	±2µm	±1.5µm
Max. weight of workpiece		5kg					
Measurement time		<2s					
Measurement	data	2D measurement					
Power supply		220V, 50Hz, 600W					
	back light	telecentric illumir	nator, 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					
Dimension (L×W×H)		532×480×766mm 532×497×766mm 669×510×88		669×510×883m	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

(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
(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
(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
(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
(9) 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 1 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

116977

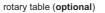
(7/

- 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





Main unit	1 pc
Computer	1 pc
Software	1 pc





11.6" LCD (optional)

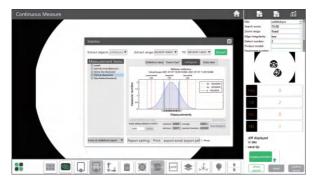
OPTIONAL ACCESSORY

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





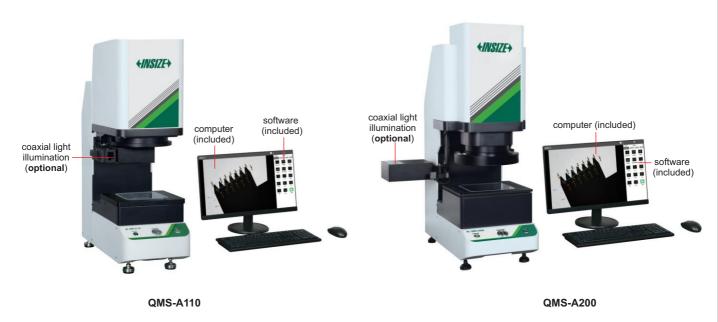




QUICK MEASUREMENT SYSTEMS (WITHOUT STITCHING)

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





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 ran	70	100×80mm	wide view field	small view field	
	ge	100~001111	150×110mm	50×35mm	
Measurement	range (X×Y)	98×78mm	148×108mm	48×33mm	
Measurement accuracy *		±3µm ①	±5µm②	±2µm ^③	
Repeatability		±1µm	±1µm	±0.5µm	
Max. weight of workpiece		5kg			
Measurement time		<2s			
Measurement 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 than 15Hz			
Dimension (L×W×H)		580×235×790mm	638×336×885mm		
Weight		40kg	60kg		

* The optimum temperature is 20°C±1°C

Within 80×64mm, on focal position and environment temperature at 20°C±1°C
 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

22

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)

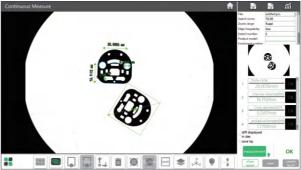
OPTIONAL ACCESSORY

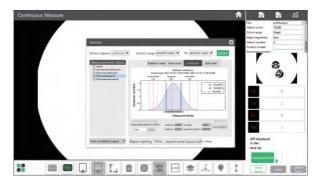
Coaxial light illumination	QMS-23-A3 (for QMS-A110)	
	QMS-23-A4 (for QMS-A200)	
Data transmission function of software	QMS-23-D1	
CAD import function of software	QMS-23-C1	
Foot-switch	QMS-43-FS1	
11.6" LCD	QMS-23-B1 (must be installed in factory)	

Software (included)

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









CNC VISION MEASURING SYSTEMS (STANDARD TYPE)

INSPECTION CERTIFICATE



ISD-V220CNCA

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

+INSIZE

- SPC function for large quantity measurement
 Measuring software is included (page 671~672)

SPECIFICATION

	motoria	zed zoom lens	ISD-V220ZA	ISD-V220ZHN	ISD-V270ZA	ISD-V270ZHN	ISD-V370ZA	ISD-V370ZHN	
Code –	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 stage size		306×196mm	306×196mm	350×250mm	350×250mm	450×350mm	450×350mm		
Resolu	tion of)	(/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							
Magnif	ication		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)		jonal 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



software flash disk (included)

STANDARD DELIVERY

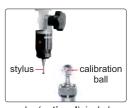
Main unit	1 pc
Software	1 pc
Computer	1 pc
24" display	1 pc
Len with coaxial light	1 pc
Controller	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Anti-dust cover	1 pc





INSIZE)

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



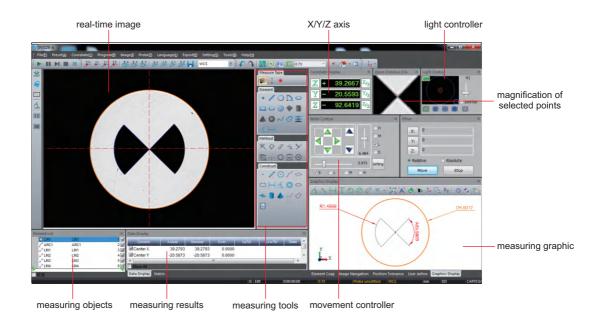
probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10µm

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



662

CNC VISION MEASURING SYSTEMS

AINSIZE





- 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	570×470mm				
Resolution of X/Y/Z	axis	0.5µm	0.5µm				
Accuracy of X/Y axis		≤(2.5+L/200)µm (L is n	≤(2.5+L/200)µm (L is measuring length in mm)				
Repeatability of X/Y axis		2µm	2µm				
Objective		0.7X~4.5X (zoom)					
Working distance		92mm	92mm				
View field (diagonal length)		1.5~10.8mm	1.5~10.8mm				
Magnification		33.0X~208.6X (on 24"	33.0X~208.6X (on 24" monitor)				
Camera		giga-bit network came	giga-bit network camera				
Illumination surface		coaxial light, programmable segmented ring light					
mummation	contour	adjustable LED light	adjustable LED light				
Max. height of workpieces		200mm	200mm		400mm		
Max. weight of workpieces		30kg	30kg				
Operation system		Windows 7/10	Windows 7/10				
Drive method		automatic	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		

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





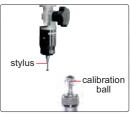


INSIZE >

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

