INSPECTION CERTIFICATE

VIDEO

edge detector

ISP-Z3015

ISP-A1000E

digital readout of **ISP-A1000E**

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

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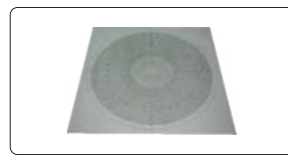
OPTIONAL ACCESSORY

lens

rotary table (glass plate diameter 100mm)

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

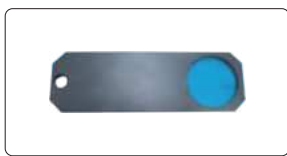holder with clamp

swivel center support

V-block with clamp

50mm reading scale (check magnification accuracy)

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

blue filter

demo sample

printer (only for **ISP-A1000E**)

To be continued

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SPECIFICATION

Code	ISP-Z3015		ISP-A1000E	
Edge detector	not included		included	
Lens magnification	10X (included)	20X (*optional*)	50X (*optional*)	100X (*optional*)
view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm
working distance	77.7mm	44.3mm	38.4mm	25.3mm
Max. workpiece height	90mm	90mm	90mm	90mm
Magnification accuracy	±0.08%			
Image	erect image			
Projector screen	diameter: Ø300mm			
	rotation range: 0°~360°, resolution: 1" or 0.01°			
	reference lines: cross-hairs			
Stage metal stage size	340×152mm			
glass stage size	196×96mm			
X-Y stage travel	range: 150×50mm			
	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 adjustable			
	surface illumination: 24V/150W halogen lamp			
Data processing unit display	X-Y stage travel, screen rotation			
output	RS232C		RS232C, USB (data output to Excel and CAD)	

Data processing unit — function

ISP-Z3015	ISP-A1000E
measure coordinate of point	measure coordinate of point
measure coordinate of line	measure coordinate of line
measure center coordinate, radius of circle with three points	measure center coordinate, radius of circle with three points
measure distance between two objects	measure distance between two objects
measure angle with four points or two lines	measure angle with four points or two lines
set origin of coordinate	coordinate transform
coordinate transform	choose measurement object automatically according to the selective point and display the result
set midpoint of coordinate	

	ISP-Z3015	ISP-A1000E
advanced function	—	programming for batch measurements
Power supply	110/220V, 50/60Hz	
Dimension (L×W×H)	550×770×1100mm	
Weight	135kg	

STANDARD 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
Anti-dust cover	1 pc
Software (only for ISP-A1000E) and USB cable	1 pc

OPTIONAL ACCESSORY

20X lens with half-reflection mirror and oblique illuminator mirror	ISP-Z3015-LENS20X		**Swivel center support**	ISP-Z3015-SUPPORT
50X lens with half-reflection mirror	ISP-Z3015-LENS50X		**V-block with clamp**	ISP-Z3015-VBLOCK
100X lens with half-reflection mirror	ISP-Z3015-LENS100X		**50mm reading scale**	ISP-Z3015-SCALE50
Rotary table	ISP-Z3015-TABLE		**300mm calibration scale**	ISP-Z3015-RULE
Overlay chart	ISP-Z3015-CHART		**Blue filter**	ISP-Z3015-FILTER
Holder with clamp	ISP-Z3015-HOLDER		**Demo sample**	ISP-Z3015-DEMO
			Printer (only for ISP-A1000E)	ISP-A1000-PRINTER

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THE STAGE DOESN'T MOVE UP AND DOWN

INSPECTION CERTIFICATE

VIDEO

edge detector

software flash disk (included)

- Adjust the focus by ascending and descending the projector head, the stage doesn't move up and down
- Maximum workpiece weight 30kg

ISP-A5000E

digital readout

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

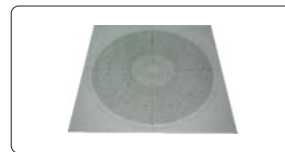## OPTIONAL ACCESSORY

lens

rotary table
(glass plate diameter 100mm)

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

holder with clamp

swivel center support

V-block with clamp

50mm reading scale
(check magnification accuracy)

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

demo sample

printer

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SPECIFICATION

Code	ISP-A4500E	ISP-A5000E	ISP-A5001E	ISP-A5002E	ISP-A5003E
Edge detector	included				
Lens — magnification	10X (included)	20X (**optional**)	50X (**optional**)	100X (**optional**)	
Lens — view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm	
Lens — working distance	77.7mm	44.3mm	38.4mm	25.3mm	
Max. workpiece height	90mm	90mm	90mm	90mm	
Magnification accuracy	±0.08%				
Image	erect image				
Projector screen	diameter: Ø300mm				
	rotation range: 0°~360°, resolution: 1" or 0.01°				
	reference lines: cross-hairs				
Stage — metal stage size	354×228mm	404×228mm	450×280mm	500×330mm	606×466mm
Stage — glass stage size	210×160mm	260×160mm	306×196mm	321×221mm	450×350mm
Stage — X-Y stage travel range	150×100mm	200×100mm	250×150mm	295×195mm	400×300mm
Stage — resolution	0.5µm				
Stage — accuracy	(3+L/75)µm L is the measuring length in mm				
Stage — Z (focus) travel range	100mm				
Stage — max. load capacity	30kg				
Illumination	contour illumination: 24V/150W halogen lamp, brightness is adjustable				
	surface illumination: 24V/150W halogen lamp				
Data processing unit — display	X-Y stage travel, screen rotation				
Data processing unit — output	RS232C, USB (data output to Excel and CAD)				
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 coordinate transform choose measurement object automatically according to the selective point and display the result				
Data processing unit — advanced function	programming for batch measurements				
Power supply	110/220V, 50/60Hz				
Dimension (L×W×H)	780×780×1100mm	780×780×1100mm	810×780×1120mm	900×780×1120mm	1040×780×1120mm
Weight	160kg	160kg	180kg	180kg	250kg

STANDARD 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

OPTIONAL ACCESSORY

20X lens with half-reflection mirror and oblique illuminator mirror	ISP-A5000-LENS20X	Swivel center support (for ISP-A4500E)	ISP-A4500-SUPPORT
50X lens with half-reflection mirror	ISP-A5000-LENS50X	Swivel center support (for ISP-A5000E/A5001E)	ISP-A5000-SUPPORT
100X lens with half-reflection mirror	ISP-A5000-LENS100X	Overlay chart	ISP-A5000-CHART
Rotary table (for ISP-A4500E/A5000E)	ISP-A5000-TABLE	Holder with clamp	ISP-A5000-HOLDER
Rotary table (for ISP-A5001E/A5002E)	ISP-A5001-TABLE	V-block with clamp	ISP-A5000-VBLOCK
Rotary table (for ISP-A5003E)	ISP-A5003-TABLE	50mm reading scale	ISP-A5000-SCALE50
Printer	ISP-A5000-PRINTER	300mm calibration scale	ISP-A5000-RULE
		Demo sample	ISP-A5000-DEMO

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THE STAGE DOESN'T MOVE UP AND DOWN

INSPECTION CERTIFICATE

VIDEO

HIGH PRECISION PROFILE PROJECTORS (WITHOUT EDGE DETECTOR)

- Adjust the focus by ascending and descending the projector head, the stage doesn't move up and down
- Maximum workpiece weight 30kg
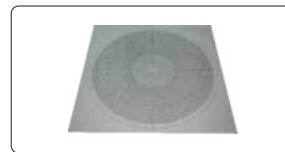

ISP-AZ3020

OPTIONAL ACCESSORY

lens

rotary table
(glass plate diameter 100mm)

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

holder with clamp

swivel center support

V-block with clamp

50mm reading scale
(check magnification accuracy)

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

demo sample

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To be continued

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SPECIFICATION

Code	ISP-AZ3010	ISP-AZ3020	ISP-AZ3025	ISP-AZ3030	ISP-AZ3040
Edge detector	not included				
Lens — magnification	10X (included)	20X (**optional**)	50X (**optional**)	100X (**optional**)	
Lens — view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm	
Lens — working distance	77.7mm	44.3mm	38.4mm	25.3mm	
Max. workpiece height	90mm	90mm	90mm	90mm	
Magnification accuracy	±0.08%				
Image	erect image				
Projector screen	diameter: Ø300mm				
	rotation range: 0°~360°, resolution: 1" or 0.01°				
	reference lines: cross-hairs				
Stage — metal stage size	354×228mm	404×228mm	450×280mm	500×330mm	606×466mm
Stage — glass stage size	210×160mm	260×160mm	306×196mm	321×221mm	450×350mm
Stage — X-Y stage travel range	150×100mm	200×100mm	250×150mm	295×195mm	400×300mm
Stage — resolution	0.5µm				
Stage — accuracy	(3+L/75)µm L is the measuring length in mm				
Stage — Z (focus) travel range	100mm				
Stage — max. load capacity	30kg				
Illumination	contour illumination: 24V/150W halogen lamp, brightness is adjustable				
	surface illumination: 24V/150W halogen lamp				
Data processing unit — display	X-Y stage travel, screen rotation				
Data processing unit — output	RS232C				
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				
	½ set midpoint of coordinate				
Power supply	110/220V, 50/60Hz				
Dimension (L×W×H)	780×780×1100mm	780×780×1100mm	810×780×1120mm	900×780×1120mm	1040×780×1120mm
Weight	160kg	160kg	180kg	180kg	250kg

STANDARD 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

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 (for ISP-AZ3010/3020)	ISP-A5000-TABLE
Rotary table (for ISP-AZ3025/3030)	ISP-A5001-TABLE
Rotary table (for ISP-AZ3040)	ISP-A5003-TABLE

Swivel center support (for ISP-AZ3010)	ISP-A4500-SUPPORT
Swivel center support (for ISP-AZ3020/3025)	ISP-A5000-SUPPORT
Overlay chart	ISP-A5000-CHART
Holder with clamp	ISP-A5000-HOLDER
V-block with clamp	ISP-A5000-VBLOCK
50mm reading scale	ISP-A5000-SCALE50
300mm calibration scale	ISP-A5000-RULE
Demo sample	ISP-A5000-DEMO

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VIDEO

INSPECTION CERTIFICATE

edge detector

ISP-W3020

ISP-A3000E

digital readout of **ISP-A3000E**

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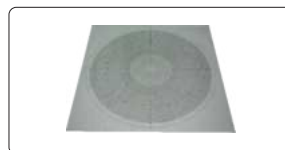- USB data output to Excel and CAD
- show diagram

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

OPTIONAL ACCESSORY

lens

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

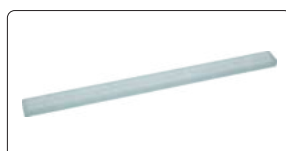50mm reading scale (check magnification accuracy)

demo sample

vise

rotary table

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

printer (only for **ISP-A3000E**)

To be continued

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SPECIFICATION

Code	ISP-W3020		ISP-A3000E	
Edge detector	not included		included	
Lens	magnification	10X (included)	20X (**optional**)	50X (**optional**)	100X (**optional**)
	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm
	working distance	77.7mm	44.3mm	38.4mm	25.3mm
Magnification accuracy	±0.08%			
Projector screen	diameter: Ø300mm			
	rotation range: 0°~360°, resolution: 1' or 0.01°			
	reference lines: cross-hairs			
Stage	metal stage size	400×150mm		
	turning range	±15°		
	X-Z stage travel	range: 200×100mm		
		resolution: 0.5µm		
		accuracy: (4+L/25)µm L is the measuring length in mm		
	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			
Data processing unit	display	X-Z stage travel, screen rotation		
	output	RS232C		RS232C, USB (data output to Excel and CAD)
	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 set midpoint of coordinate		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	—		programming for batch measurements
Power supply	110/220V, 50/60Hz			
Dimension (L×W×H)	830×1090×1010mm			
Weight	160kg			

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-A3000E) and USB cable	1 pc

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OPTIONAL ACCESSORY

20X lens	ISP-A3000-LENS20X		Demo sample	ISP-A3000-DEMO
50X lens	ISP-A3000-LENS50X		V-block with clamp	ISP-A3000-VBLOCK
100X lens	ISP-A3000-LENS100X		Rotary table	ISP-A3000-RTABLE
Overlay chart	ISP-A3000-CHART		Vise	ISP-A3000-VISE
50mm reading scale	ISP-A3000-SCALE50		Printer (only for ISP-A3000E)	ISP-A3000-PRINTER
300mm calibration scale	ISP-A3000-RULE			

edge detector

ISP-W4025

ISP-A7000E

digital readout of **ISP-A7000E**

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

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

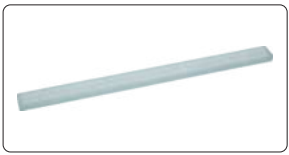## OPTIONAL ACCESSORY

lens

vise

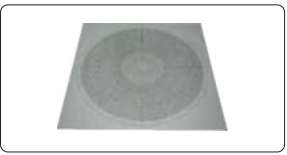rotary table

demo sample (need rotary table)

printer (only for **ISP-A7000E**)

50mm reading scale
(check magnification accuracy)

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

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

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SPECIFICATION

Code		ISP-W4025				ISP-A7000E		
Edge detector		not included				included		
Lens	magnification	5X (**optional**)	10X (standard)	20X (**optional**)		50X (**optional**)		100X (**optional**)
	view field	Ø80mm	Ø40mm	Ø20mm		Ø8mm		Ø4mm
	working distance	93.7mm	103.9mm	95.1mm		65.7mm		35mm
Magnification accuracy		±0.08%						
Image		erect image						
Projector screen		diameter: Ø400mm						
		rotation range: 0°~360°, resolution: 1' or 0.01°						
		reference lines: cross-hairs						
Stage	metal stage size	450×200mm						
	turning range	±15°						
	X-Z stage travel	range: 250×150mm						
		resolution: 0.5µm						
		accuracy: (4+L/25)µm L is the measuring length in mm						
	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						
Data processing unit	display	X-Z stage travel, screen rotation						
	output	RS232C				RS232C, USB (data output to Excel and CAD)		
	function	measure coordinate of point				measure coordinate of point		
		measure coordinate of line				measure coordinate of line		
		measure center coordinate, radius of circle with three points				measure center coordinate, radius of circle with three points		
		measure distance between two objects				measure distance between two objects		
		measure angle with four points or two lines				measure angle with four points or two lines		
		set origin of coordinate				coordinate transform		
		coordinate transform				choose measurement object automatically according to the selective point and display the result		
		set midpoint of coordinate						
	advanced function	—				programming for batch measurements		
Power supply		110/220V, 50/60Hz						
Dimension (L×W×H)		646×1215×1210mm						
Weight		240kg						

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

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OPTIONAL ACCESSORY

5X lens	ISP-W4025-LENS5X	**300mm calibration scale**	ISP-A3000-RULE
20X lens	ISP-W4025-LENS20X	**Demo sample**	ISP-A3000-DEMO
50X lens	ISP-W4025-LENS50X	**V-block with clamp**	ISP-A3000-VBLOCK
100X lens	ISP-W4025-LENS100X	**Rotary table**	ISP-A3000-RTABLE
Ø300mm overlay chart	ISP-A3000-CHART	**Vise**	ISP-A3000-VISE
50mm reading scale	ISP-A3000-SCALE50	**Printer (only for ISP-A7000E)**	ISP-A3000-PRINTER

VIDEO

INSPECTION CERTIFICATE
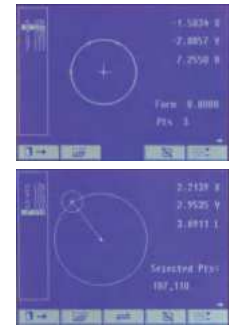
edge detector (for **ISP-A6000E**)

digital readout

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

10X lens

stage

projector screen

focus wheel

illumination control panel

ISP-A6000 (without edge detector)

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

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SPECIFICATION

Code		ISP-A6000			ISP-A6000E	
Edge detector		not included			included	
Projector screen		diameter: Ø600mm				
		rotation range: 0°~360°, resolution: 1' or 0.01°				
		reference lines: cross-hairs				
Lens	magnification	5X (**optional**) 10X (included) 20X (**optional**) 50X (**optional**) 100X (**optional**)				
	view field	Ø120mm Ø60mm Ø30mm Ø12mm Ø6mm				
	working distance	242.8mm 143.2mm 85.5mm 92mm 48.5mm				
Magnification accuracy		±0.08%				
Image		erect image				
Stage	metal stage size	404×265mm				
	glass stage size	270×170mm				
	X-Y stage travel	range: 200×100mm				
		resolution: 0.5µm				
		accuracy: (3+L/50)µm L is the measuring length in mm				
	Z (focus) travel range	50mm				
	max. load capacity	5kg				
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable				
		surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable				
Data processing unit	display	X-Y stage travel, screen rotation				
	output	RS232C, USB (data output to Excel and CAD)				
	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				
		coordinate transform				
		choose measurement object automatically according to the selective point and display the result				
	advanced function	programming for batch measurements				
Power supply		110/220V, 50/60Hz				
Dimension (L×W×H)		1200×1140×1940mm				
Weight		360kg				

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		300mm calibration scale	ISP-A6000-RULE
20X lens	ISP-A6000-LENS20X		50mm reading scale	ISP-A6000-SCALE50
50X lens	ISP-A6000-LENS50X		Rotary table	ISP-A6000-TABLE
100X lens	ISP-A6000-LENS100X		Demo sample	ISP-A6000-DEMO
Holder with clamp	ISP-A6000-HOLDER		Printer	ISP-A6000-PRINTER