PROFILE PROJECTORS

INSPECTION CERTIFICATE

edge detector

ISP-Z3015

ISP-A1000E

digital readout of ISP-A1000E

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

VIDEO

17

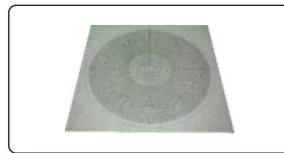software CD
(included, only for
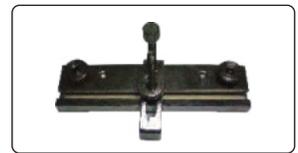**ISP-A1000E**)

OPTIONAL ACCESSORY

lens

rotary table
(glass plate diameter 100mm)

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

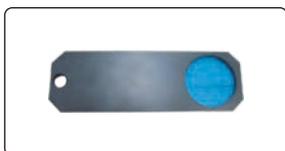holder with clamp

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

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

17

PROFILE PROJECTORS

edge detector

ISP-AZ3020

ISP-A5000E

VIDEO

digital readout of **ISP-A5000E**

17

■ Adjust the focus by ascending and descending the projector head, the stage doesn't move up and down
■ Maximum workpiece weight 50kg

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

software CD (included, only for **ISP-A5000E**)
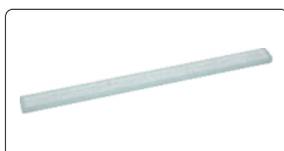
OPTIONAL ACCESSORY

lens

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

50mm reading scale (check magnification accuracy)

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

demo sample

printer (only for **ISP-A5000E**)

To be continued

SPECIFICATION

Code		ISP-AZ3020		ISP-A5000E	
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		100mm	100mm	100mm	100mm
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	404×228mm			
	glass stage size	260×160mm			
	X-Y stage travel	range: 200×100mm			
		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			
		surface illumination: 24V/150W halogen lamp, brightness is adjustable			
Data processing unit	display	X-Y 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)		780×780×1100mm			
Weight		160kg			

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-A5000E) and USB cable	1 pc

OPTIONAL ACCESSORY

20X lens with half-reflection mirror and oblique illuminator mirror	ISP-A5000-LENS20X	50mm reading scale	ISP-A5000-SCALE50
		300mm calibration scale	ISP-A5000-RULE
50X lens with half-reflection mirror	ISP-A5000-LENS50X	Demo sample	ISP-A5000-DEMO
100X lens with half-reflection mirror	ISP-A5000-LENS100X	Printer (only for ISP-A5000E)	ISP-A5000-PRINTER
Overlay chart	ISP-A5000-CHART		

HORIZONTAL PROFILE PROJECTORS

INSPECTION CERTIFICATE
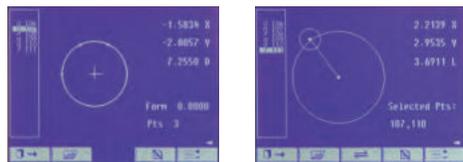
edge detector

ISP-W3020

ISP-A3000E

digital readout of ISP-A3000E

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

VIDEO

software CD
(included, only for
ISP-A3000E)
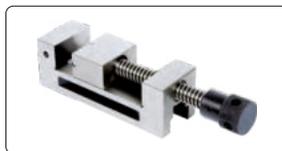
OPTIONAL ACCESSORY

lens

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

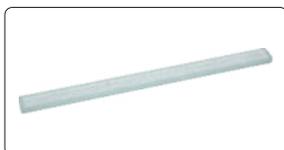50mm reading scale
(check magnification accuracy)

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

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 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)		1090×830×1010mm			
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

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		Vice	ISP-A3000-VISE
50mm reading scale	ISP-A3000-SCALE50		Printer (only for ISP-A3000E)	ISP-A3000-PRINTER
300mm calibration scale	ISP-A3000-RULE			

17

HORIZONTAL PROFILE PROJECTORS

INSPECTION CERTIFICATE

edge detector

ISP-W4025

ISP-A7000E

VIDEO

digital readout of **ISP-A7000E**

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

software CD
(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)

To be continued

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)		1215×646×1210mm				
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

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

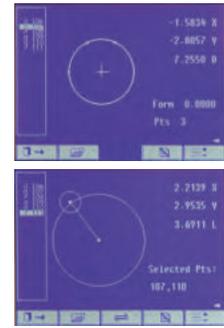| 300mm calibration scale	ISP-A3000-RULE
Demo sample	ISP-A3000-DEMO
V-block with clamp	ISP-A3000-VBLOCK
Rotary table	ISP-A3000-RTABLE
Vice	ISP-A3000-VISE
Printer (only for ISP-A7000E)	ISP-A3000-PRINTER

17

PROFILE PROJECTORS
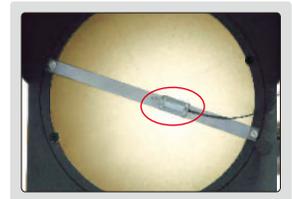
edge detector (for **ISP-A6000E**)

10X lens

stage

digital readout

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

projector screen

focus wheel

illumination control panel

17

ISP-A6000 (without edge detector)
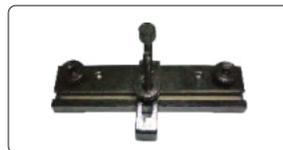
software CD (included)

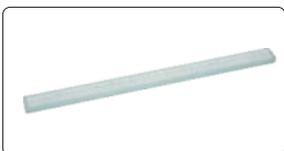## OPTIONAL ACCESSORY

| lens | rotary table (glass plate diameter 100mm) | holder with clamp | swivel center support |

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

50mm reading scale (check magnification accuracy)

demo sample

printer

To be continued

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	207×170mm				
	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 (only for ISP-A6000E) 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
Swivel center support	ISP-A6000-SUPPORT

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

17