PROFILE PROJECTORS

Screen diameter: 300mm
X-Y travel: 150x50mm
INSPECTION CERTIFICATE

ISP-Z3015

edge detector

ISP-A1000E

digital readout of **ISP-A1000E**

- touch buttons
- USB data output to Excel and CAD
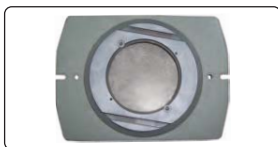- show diagram directly
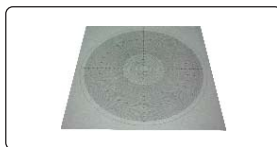
software CD
(included, only for
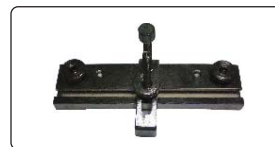**ISP-A1000E**)

OPTIONAL ACCESSORY

lens

rotary table
(glass plate diameter 100mm)

overlay chart (protractor with 1°
graduation, radius with 1mm increment)
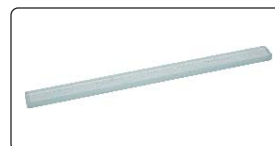
holder with clamp
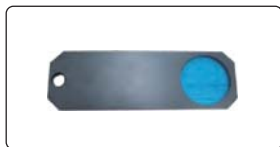
swivel center support

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

Continued from previous page

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 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	
		½ set midpoint of coordinate			
	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
USB cable and software (only for ISP-A1000E)	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

16

PROFILE PROJECTORS

edge detector

ISP-AZ3020

ISP-A5000E

VIDEO

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

digital readout of **ISP-A5000E**

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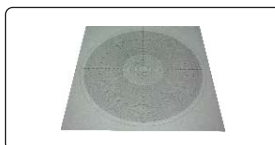- show diagram directly

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**)

16

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
USB cable and software (only for ISP-A5000E)	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
Overlay chart	ISP-A5000-CHART

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

16

HORIZONTAL PROFILE PROJECTORS

Screen diameter: 300mm | X-Z travel: 200x100mm | INSPECTION CERTIFICATE

edge detector

ISP-W3020   ISP-A3000E

VIDEO

digital readout of **ISP-A3000E**

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

software CD (included, only for **ISP-A3000E**)

OPTIONAL ACCESSORY

lens

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

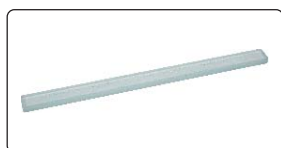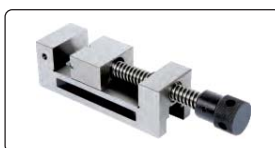50mm reading scale (check magnification accuracy)

demo sample

V-block with clamp

rotary table

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

vise

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

To be continued

16

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
USB cable and software (only for ISP-A3000E)	1 pc

OPTIONAL ACCESSORY

20X lens	ISP-A3000-LENS20X	Demo sample	ISP-A3000-DEMO
50X lens	ISP-A3000-LENS50X	V-block with clamp	ISP-A1000-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		

16

HORIZONTAL PROFILE PROJECTORS

Screen diameter: 400mm | X-Z travel: 250x150mm | 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 directly

software CD
(included, only for
ISP-A7000E)
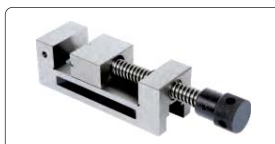
OPTIONAL ACCESSORY

lens
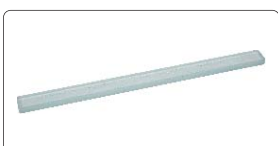
V-block with clamp

rotary table
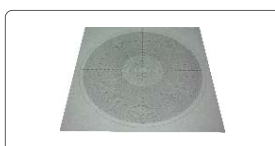
demo sample (need rotary table)

vise

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

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)

50mm reading scale
(check magnification accuracy)

To be continued

16

Continued from previous page

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
USB cable and software (only for ISP-A7000E)	1 pc

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-A1000-VBLOCK
100X lens	ISP-W4025-LENS100X		Rotary table	ISP-A3000-RTABLE
Ø300mm overlay chart	ISP-A3000-CHART		Vice	ISP-A3000-VISE
50mm reading scale	ISP-A3000-SCALE50		Printer (only for ISP-A7000E)	ISP-A3000-PRINTER

16