PROFILE PROJECTORS

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

VIDEO

ISP-Z3015

edge detector

ISP-A1000E

digital readout of **ISP-A1000E**

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

-1.5834 X
-2.0057 Y
2.2550 D

Form 0.0000
Pts 3

2.2139 X
2.9535 Y
3.6911 L

Selected Pts:
107,110

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

OPTIONAL ACCESSORY

lens
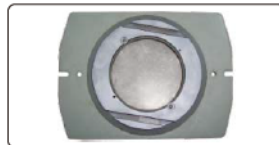
rotary table
(glass plate diameter 100mm)
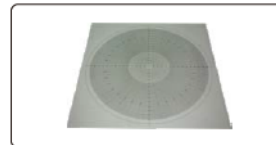
overlay chart (protractor with 1°
graduation, radius with 1mm increment)
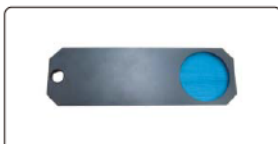

holder with clamp

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	
		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	1pc
10X lens with half-reflection mirror and oblique illuminator mirror	1pc
Overlay chart clip	4pcs
Foot-switch	1pc
Anti-dust cover	1pc
USB cable and software (only for ISP-A1000E)	1pc

OPTIONAL ACCESSORY

20X lens with half-reflectionmirror 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

PROFILE PROJECTORS

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

VIDEO

edge detector

ISP-AZ3020

ISP-A5000E

digital readout of **ISP-A5000E**

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

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

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

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**)

Continued from previous page

SPECIFICATION

		ISP-AZ3020		ISP-A5000E	
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	1pc
10X lens with half-reflection mirror and oblique illuminator mirror	1pc
Overlay chart clip	4pcs
Foot-switch	1pc
Anti-dust cover	1pc
USB cable and software (only for ISP-A5000E)	1pc

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

Screen diameter: 300mm **X-Z travel: 200x100mm**

INSPECTION CERTIFICATE

edge detector

ISP-W3020   **ISP-A3000E**

digital readout of **ISP-A3000E**

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

-1.583A X
-2.0052 Y
7.2550 B

Form 0.0000
Pts 3

2.2139 X
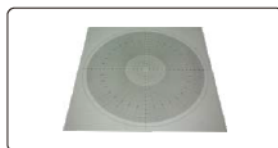2.9535 Y
3.6911 L

Selected Pts:
107,110

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

Continued from previous page

SPECIFICATION

Code	ISP-W3020		ISP-A3000E	
Edge detector	not included		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
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			
Stage — turning range	±15°			
Stage — X-Z stage travel	range: 200×100mm			
	resolution: 0.5µm			
	accuracy: (4+L/25)µm L is the measuring length in mm			
Stage — Y (focus) travel range	75mm			
Stage — 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			
Data processing unit — output	RS232C		RS232C, USB (data output to Excel and CAD)	
Data processing unit — 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			
Data processing unit — 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	1pc
10X lens	1pc
Overlay chart clip	4pcs
Foot-switch	1pc
Anti-dust cover	1pc
USB cable and software (only for ISP-A3000E)	1pc

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		

HORIZONTAL PROFILE PROJECTORS

| Screen diameter: 400mm | X-Z travel: 250x150mm | **INSPECTION CERTIFICATE** |

edge detector

ISP-W4025
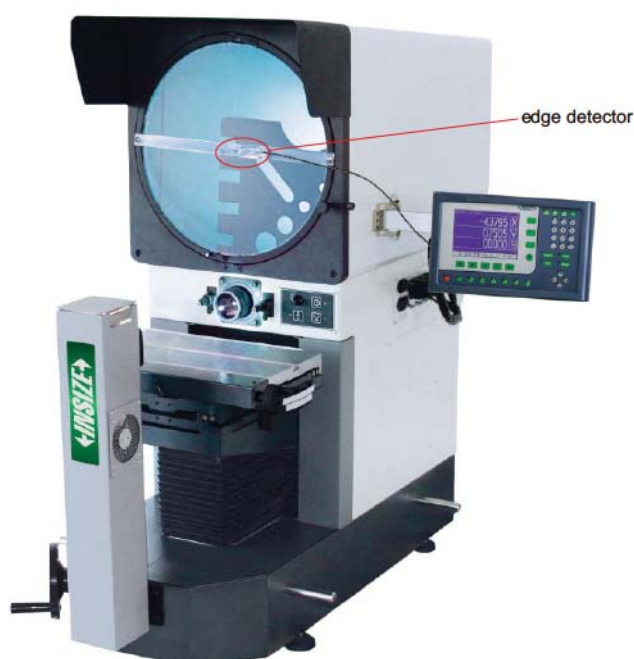
ISP-A7000E

digital readout of ISP-A7000E

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

-1.5834 X
-2.8857 Y
7.2558 D

Form 0.0000
Pts 3

2.2139 X
2.9535 Y
3.6911 L

Selected Pts:
107,118

software CD
(included, only for **ISP-A7000E**)

OPTIONAL ACCESSORY
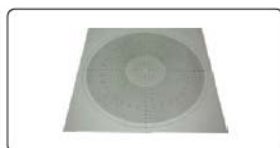
lens

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

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				
	—			programming for batch measurements	
Power supply	110/220V, 50/60Hz				
Dimension (L×W×H)	1215×646×1210mm				
Weight	240kg				

STANDARD DELIVERY

Main unit	1pc
10X lens	1pc
Overlay chart clip	4pcs
Foot-switch	1pc
Anti-dust cover	1pc
USB cable and software (only for ISP-A7000E)	1pc

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