# +INSIZE+

## INSPECTION

#### **PROFILE PROJECTORS**







digital readout of ISP-A1000E

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



**OPTIONAL ACCESSORY** 





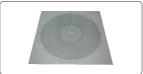
software flash disk (included, only for ISP-A1000E)



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

demo sample



50mm reading scale (check magnification accuracy)



printer (only for ISP-A1000E)



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



blue filter



#### **SPECIFICATION**

Code		ISP-Z3015		ISP-A1000E		
Edge detector		not included		included		
magnification		10X (included) 20X ( <b>optional</b> )		50X (optional	) 100X (optional)	
Lens	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm	
Lens	working distance	77.7mm	44.3mm	38.4mm	25.3mm	
Max. workpied	<u> </u>	90mm	90mm	90mm	90mm	
		±0.08%	9011111	9011111	9011111	
Magnification Image	accuracy	erect image				
iiiage		diameter: Ø300mm				
Projector scre	aan	rotation range: 0°~360°	recolution: 1" or 0.01°	,		
Projector scre	ren					
		reference lines: cross-h 340×152mm	airs			
	metal stage size					
	glass stage size	196×96mm				
Stone	V V ataus turnel	range: 150×50mm				
Stage	X-Y stage travel	resolution: 0.5µm				
	7 (5) (	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			ustable	
T		surface illumination: 24V/150W halogen lamp				
	display	X-Y stage travel, screen rotation				
	output	RS232C		RS232C, USB (data output to Excel and CAD)		
		measure coording	nate of point	measu	re coordinate of point	
		measure coordin	nate of line	measu	re coordinate of line	
		measure center radius of circle w			re center coordinate, of circle with three points	
Data processing		measure distance two objects	•		re distance between	
unit	function	measure angle v			re angle with four points	
		set origin of coor	rdinate	coordir	nate transform	
		coordinate trans	form	automa	e measurement object atically according to the	
		set midpoint of c	oordinate	selectiv	ve point and display the result	
	advanced function	_		programming	for batch measurements	
Power supply	,	110/220V, 50/60Hz				
Dimension (L×W×H)		550×770×1100mm				
Dimension (L	×W×H)	550×770×1100mm				

#### 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		
50X lens with half-reflection mirror	ISP-Z3015-LENS50X		
100X lens with half-reflection mirror	ISP-Z3015-LENS100X		
Rotary table	ISP-Z3015-TABLE		
Overlay chart	ISP-Z3015-CHART		
Holder with clamp	ISP-Z3015-HOLDER		

Swivel center support	ISP-Z3015-SUPPORT	
V-block with clamp	ISP-Z3015-VBLOCK	
50mm reading scale	ISP-Z3015-SCALE50	
300mm calibration scale	ISP-Z3015-RULE	
Blue filter	ISP-Z3015-FILTER	
Demo sample	ISP-Z3015-DEMO	
Printer (only for ISP-A1000E)	ISP-A1000-PRINTER	

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#### HIGH PRECISION PROFILE PROJECTORS (WITH EDGE DETECTOR)





software flash disk (included)



ISP-A5000E



Adjust the focus by ascending and descending the projector head, the stage doesn't move up and down

Maximum workpiece weight 30kg

#### **OPTIONAL ACCESSORY**





rotary table (glass plate diameter 100mm)



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



holder with clamp

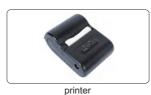




demo sample



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)



#### SPECIFICATION

Code		ISP-A4500E	ISP-A5000E	ISP-A5001E	ISP-A5002E	ISP-A5003E		
Edge detector		included						
magnification		10X (included)	20X (optiona	I) 50X (optio	nal) 100X (d	ptional)		
Lens	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm			
working distance		77.7mm	44.3mm	38.4mm	25.3mn	1		
Max. workpi	ece height	90mm	90mm	90mm	90mm			
Magnificatio	n accuracy	±0.08%						
Image		erect image						
		diameter: Ø300mm						
Projector sc	reen	rotation range: 0°~3	860°, resolution: 1" or	0.01°				
		reference lines: cros	ss-hairs					
	metal stage size	354×228mm	404×228mm	450×280mm	500×330mm	606×466mm		
	glass stage size	210×160mm	260×160mm	306×196mm	321×221mm	450×350mm		
	X-Y stage travel range	150×100mm	200×100mm	250×150mm	295×195mm	400×300mm		
Stage	resolution	0.5µm						
	accuracy	(3+L/75)µm L is t	he measuring length	in mm				
	Z (focus) travel range	100mm						
	max. load capacity	30kg						
		contour illumination: 24V/150W halogen lamp, brightness is adjustable						
Illumination		surface illumination: 24V/150W halogen lamp						
	display	X-Y stage travel, screen rotation						
	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						
	advanced function	on programming for batch measurements						
Power suppl	у	110/220V, 50/60Hz						
Dimension (	_×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 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-A4500E/A5000E)	ISP-A5000-TABLE	
Rotary table (for ISP-A5001E/A5002E)	ISP-A5001-TABLE	
Rotary table (for ISP-A5003E)	ISP-A5003-TABLE	
Printer	ISP-A5000-PRINTER	

Swivel center support (for ISP-A4500E)	ISP-A4500-SUPPORT
Swivel center support (for ISP-A5000E/A5001E)	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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#### HIGH PRECISION PROFILE PROJECTORS (WITHOUT EDGE DETECTOR)





ISP-AZ3020

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

#### **OPTIONAL ACCESSORY**

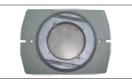




swivel center support



demo sample



rotary table (glass plate diameter 100mm)



V-block with clamp



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



50mm reading scale (check magnification accuracy)



holder with clamp



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



#### **SPECIFICATION**

Code		ISP-AZ3010	ISP-AZ3020	ISP-AZ3025	ISP-AZ3030	ISP-AZ3040	
Edge detector		not included					
	magnification	10X (included)	20X (optiona	II) 50X (optio	nal) 100X (c	optional)	
Lens	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm		
	working distance	77.7mm	44.3mm	38.4mm	25.3mm	า	
Max. workpi	ece height	90mm	90mm	90mm	90mm		
Magnificatio	n accuracy	±0.08%					
Image		erect image					
		diameter: Ø300mm	ı				
Projector sc	reen	rotation range: 0°~3	360°, resolution: 1" or	· 0.01°			
		reference lines: cro	ss-hairs				
	metal stage size	354×228mm	404×228mm	450×280mm	500×330mm	606×466mm	
	glass stage size	210×160mm	260×160mm	306×196mm	321×221mm	450×350mm	
	X-Y stage travel range	150×100mm	200×100mm	250×150mm	295×195mm	400×300mm	
Stage	resolution	0.5µm					
	accuracy	(3+L/75)µm L is the measuring length in mm					
	Z (focus) travel range	100mm					
	max. load capacity	30kg					
		contour illumination: 24V/150W halogen lamp, brightness is adjustable					
Illumination		surface illumination: 24V/150W halogen lamp					
	display	X-Y stage travel, screen rotation					
	output	RS232C					
Data processing unit	function	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  2 set midpoint of coordinate					
Power suppl	у	110/220V, 50/60Hz					
Dimension (	L×W×H)	780×780×1100mm	780×780×1100mm	810×780×1120mm	900×780×1120mm	1040×780×1120mn	
Weight		160kg	160kg	180kg	180kg	250kg	

#### STANDARD DELIVERY

STANDARD DELIVERT					
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				

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



## INSPECTION CERTIFICATE

#### HORIZONTAL PROFILE PROJECTORS



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)





demo sample



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

#### **OPTIONAL ACCESSORY**



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





printer (only for ISP-A3000E)



50mm reading scale (check magnification accuracy)



rotary table



#### **SPECIFICATION**

Code		ISP-W3020		ISP-A3000E		
Edge detector		not included		included	included	
	magnification	10X (included)	20X (optional)	50X (optional)	100X (optional)	
Lens	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm	
	working distance	77.7mm	44.3mm	38.4mm	25.3mm	
Magnification	n accuracy	±0.08%				
		diameter: Ø300mm				
Projector scr	een	rotation range: 0°~36	0°, resolution: 1' or 0.01°			
		reference lines: cross	s-hairs			
metal stage size		400×150mm				
	turning range	±15°				
		range: 200×100mm				
Stage	X-Z stage travel	resolution: 0.5µm				
		accuracy: (4+L/25)µn	n L is the measuring leng	gth in mm		
	Y (focus) travel range	75mm				
	max. load capacity	50kg				
Illumination		contour illumination:	24V/150W halogen lamp, b	rightness is adjusta	ble	
illumination		surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable				
	display	X-Z stage travel, screen rotation				
	output	RS232C		RS232C, USB (data output to Excel and CAD)		
	function	measure coor	dinate of point	measure	coordinate of point	
		measure coor			e coordinate of line	
		measure center radius of circle	er coordinate, with three points		e center coordinate, f circle with three points	
Data processing		measure dista	nce between two	measure two obje	e distance between cts	
unit		measure angle or two lines	e with four points	measure or two lir	angle with four points nes	
		set origin of co	oordinate	coordina	te transform	
		coordinate tra	nsform	automatic	neasurement object cally according to the point and display the result	
		set midpoint of coordinate				
advanced function		_		programming for batch measurements		
Power supply	y	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

20X lens	ISP-A3000-LENS20X
50X lens	ISP-A3000-LENS50X
100X lens	ISP-A3000-LENS100X
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
Vise	ISP-A3000-VISE
Printer (only for ISP-A3000E)	ISP-A3000-PRINTER







#### HORIZONTAL PROFILE PROJECTORS





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)





demo sample (need rotary table)



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

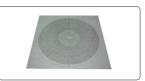
#### **OPTIONAL ACCESSORY**



vise



printer (only for ISP-A7000E)



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



rotary table



50mm reading scale (check magnification accuracy)



#### **SPECIFICATION**

Code		ISP-W4025		ISP-A7000E			
Edge detector		not included		included			
	magnification	5X (optional)	10X (standard)	20X ( <b>o</b> p	tional)	50X (optional)	100X (optional)
Lens	view field	Ø80mm	Ø40mm	Ø20mm	1	Ø8mm	Ø4mm
	working distance	93.7mm	103.9mm	95.1mm	1	65.7mm	35mm
Magnificatio	n accuracy	±0.08%					
Image		erect image					
		diameter: Ø400i	mm				
Projector sc	reen	rotation range: 0	0°~360°, resolution: 1	' or 0.01°			
		reference lines:	cross-hairs				
	metal stage size	450×200mm					
	turning range	±15°					
		range: 250×150	mm				
Stage	X-Z stage travel	resolution: 0.5μι	m				
		accuracy: (4+L/2	25)µm L is the mea	suring leng	th 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					
	display	X-Z stage travel	, screen rotation				
	output	RS232C			RS2320	C, USB (data output	to Excel and CAD)
		× measure	coordinate of point		1	measure coordinate	of point
			coordinate of line			measure coordinate	
		radius of	center coordinate, circle with three poin	its	l 💟 r	measure center coor radius of circle with t	hree points
Data processing	function	two object				measure distance be two objects	etween
unit	Tunction	measure or two lin	angle with four point es	S		measure angle with or two lines	four points
		set origin	of coordinate		<b>1</b>	coordinate transform	ı
		coordina	te transform		😈 a	hoose measuremen utomatically accordi	ng to the
		1/2 set midpo	oint of coordinate		selective point and display the result		splay the result
	advanced function	— programming for batch measurements			surements		
Power suppl	у	110/220V, 50/60Hz					
Dimension (I	L×W×H)	646×1215×1210mm					
Weight		240kg					

#### STANDARD DELIVERY

CIANDARD 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			

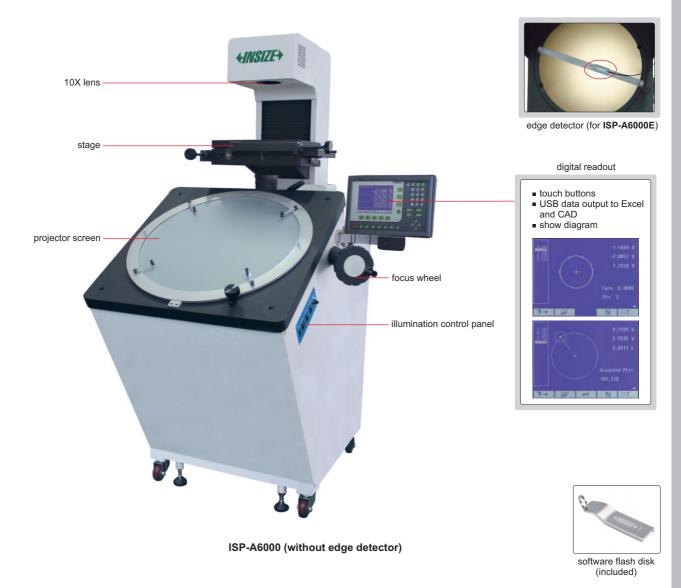
OF HONAL ACCESSORT				
5X lens	ISP-W4025-LENS5X			
20X lens	ISP-W4025-LENS20X			
50X lens	ISP-W4025-LENS50X			
100X lens	ISP-W4025-LENS100X			
Ø300mm overlay chart	ISP-A3000-CHART			
50mm reading scale	ISP-A3000-SCALE50			

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





#### **PROFILE PROJECTORS**



#### **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





#### **SPECIFICATION**

Code		ISP-A6000			ISP-A6000E		
Edge detector		not included					
Projector screen		diameter: Ø600	mm	<u> </u>			
		rotation range:	0°~360°, resolution	n: 1' or 0.01°			
		reference lines:					
	magnification	5X (optional)	10X (included)	20X (optional)	50X (optional)	100X (optional)	
Lens	view field	Ø120mm	Ø60mm	Ø30mm	Ø12mm	Ø6mm	
	working distance	242.8mm	143.2mm	85.5mm	92mm	48.5mm	
Magnification ac	curacy	±0.08%					
Image		erect image					
	metal stage size	404×265mm					
	glass stage size	270×170mm					
		range: 200×100	)mm				
Stage	X-Y stage travel	resolution: 0.5µ	m				
		accuracy: (3+L/	/50)µm L is the n	neasuring length in	mm		
	Z (focus) travel range	50mm					
	max. load capacity	5kg					
		contour illumination: 24V/150W halogen lamp, brightness is adjustable					
Illumination		surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable					
	display	X-Y stage travel, screen rotation					
	output	RS232C, USB (data output to Excel and CAD)					
Data processing unit function measure continued measure distant measure angle coordinate transcribed coordinate transcribed measure measure angle coordinate transcribed measure choose measure angle coordinate transcribed measure angle coordinate transcribed measure angle coordinate transcribed measure coordinate transcribed measure angle coordinate transcribed measure angle coordinate transcribed measure and c			e coordinate of poir e coordinate of line e center coordinate e distance between e angle with four po te transform measurement objective point and disp	, radius of circle wi two objects ints or two lines			
	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

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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

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		