**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)



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)



printer (only for ISP-A1000E)



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

blue filter demo sample



### **SPECIFICATION**

| Code                          |                        | ISP-Z3015  |   | ISP-A1000E                    |  |  |  |
|-------------------------------|------------------------|--|---|-------------------------------|--|--|--|
| Edge detector                 |                        | not included   |   | included                      |  |  |  |
| magnification                 |                        | 10X (included)   | 20X (optional)  | 50X (option                   | onal) 100X (optional)  |  |  |
| Lens                          | view field             | Ø30mm  | Ø15mm   | Ø6mm                          | Ø3mm   |  |  |
|                               | working distance       | 77.7mm   | 44.3mm  | 38.4mm                        | 25.3mm   |  |  |
| Max. workpied                 | ce height              | 90mm   | 90mm  | 90mm                          | 90mm   |  |  |
| Magnification                 | accuracy               | ±0.08%   |   |                               |  |  |  |
| Image                         |                        | erect image  |   |                               |  |  |  |
|                               |                        | diameter: Ø300mm   |   |                               |  |  |  |
| Projector scre                | een                    | rotation range: 0°~360   | °, resolution: 1" or 0.01°  |                               |  |  |  |
|                               |                        | reference lines: cross-l   | hairs   |                               |  |  |  |
|                               | metal stage size       | 340×152mm  |   |                               |  |  |  |
|                               | glass stage size       | 196×96mm   |   |                               |  |  |  |
|                               |                        | range: 150×50mm  |   |                               |  |  |  |
| Stage                         | X-Y stage travel       | 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  |   |                               |  |  |  |
|                               | display                | X-Y stage travel, screen rotation  |   |                               |  |  |  |
|                               | output                 | RS232C   |   | RS232C, I                     | USB (data output to Excel and CAD)   |  |  |
| Data processing unit function |                        | measure coordi measure coordi measure center radius of circle measure distan two objects measure angle points or two lin set origin of coor coordinate trans set midpoint of | nate of line coordinate, with three points ce between with four es ordinate | me race two or in the che aut | easure coordinate of point  easure coordinate of line easure center coordinate, dius of circle with three points easure distance between to objects easure angle with four points easure a |  |  |
|                               | advanced function      | _  |   | programm                      | ing 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  |  |  |
|---|--------------------|--|--|
| 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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# THE STAGE DOESN'T MOVE UP AND DOWN



### 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

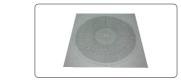
Maximum workpiece weight 30kg

#### **OPTIONAL ACCESSORY**





rotary table (glass plate diameter 100mm)



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



holder with clamp



swivel center support





(check magnification accuracy)



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



demo sample





### SPECIFICATION

| Code                       |                        | ISP-A4500E   | ISP-A5000E             | ISP-A5001E     | ISP-A5002E             | ISP-A5003E      |  |  |
|----------------------------|------------------------|--|------------------------|----------------|------------------------|-----------------|--|--|
| Edge detector              |                        | included   |                        |                |                        |                 |  |  |
| magnification              |                        | 10X (included) 20X ( <b>optional</b> ) 50X   |                        | II) 50X (optio | ional) 100X (optional) |                 |  |  |
| Lens                       | view field             | Ø30mm  | Ø15mm                  | Ø6mm           | Ø3mm                   |                 |  |  |
| working distance           |                        | 77.7mm   | 44.3mm                 | 38.4mm         | 25.3mn                 | า               |  |  |
| 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   | 60°, 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 the measuring length in mm   |                        |                |                        |                 |  |  |
|                            | Z (focus) travel range | 100mm  |                        |                |                        |                 |  |  |
|                            | max. load capacity     | 30kg   |                        |                |                        |                 |  |  |
| Illumination               |                        | contour illumination: 24V/150W halogen lamp, brightness is adjustable  |                        |                |                        |                 |  |  |
|                            |                        | surface illumination: 24V/150W halogen lamp  |                        |                |                        |                 |  |  |
|                            | display                | X-Y stage travel, screen rotation  |                        |                |                        |                 |  |  |
|                            | output                 | RS232C, USB (data output to Excel and CAD)   |                        |                |                        |                 |  |  |
| Data<br>processing<br>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      | programming for batch measurements   |                        |                |                        |                 |  |  |
| Power suppl                | у                      | 110/220V, 50/60Hz  |                        |                |                        |                 |  |  |
| Dimension (                | L×W×H)                 | 780×780×1100mm   | 780×780×1100mm         | 810×780×1120mm | 900×780×1120mm         | 1040×780×1120mm |  |  |
| 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-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<br>(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**





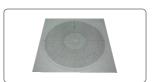
swivel center support

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  | not included  |                |                |                 |  |  |
| magnification              |                        | 10X (included)  | 10X (included) 20X ( <b>optional</b> ) 50X ( <b>o</b> |                | 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<br>processing<br>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  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  |  |  |  |  |

# 22 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<br>(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)





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

**OPTIONAL ACCESSORY** 





50mm reading scale

rotary table



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



printer (only for ISP-A3000E)



#### **SPECIFICATION**

| Code              |                        | ISP-W3020   |                                       | ISP-A3000E                         | 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   | 60°, 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)µr  | n L is the measuring len              | gth in mm                          |   |  |  |
|                   | Y (focus) travel range | 75mm  |                                       |                                    |   |  |  |
|                   | max. load capacity     | 50kg  |                                       |                                    |   |  |  |
|                   |                        | contour illumination:   | 24V/150W halogen lamp, b              | orightness is adjustabl            | e   |  |  |
| Illumination      |                        | surface illumination: 12V/150W halogen lamp (with 2 fibers), position is adjustable |                                       |                                    |   |  |  |
|                   | display                | X-Z stage travel, screen rotation   |                                       |                                    |   |  |  |
|                   | output                 | RS232C  |                                       | RS232C, USB (da                    | RS232C, USB (data output to Excel and CAD)                              |  |  |
|                   | function               | x measure coor  | dinate of point                       | measure o                          | coordinate of point   |  |  |
|                   |                        | measure coor  |                                       |                                    | coordinate of line  |  |  |
|                   |                        | measure cent radius of circle   | er coordinate,<br>e with three points |                                    | enter coordinate,<br>ircle with three points                            |  |  |
| Data processing   |                        | measure dista   | ance between two                      | measure of two object              | listance between<br>s   |  |  |
| unit              |                        | measure angl or two lines   | e with four points                    | measure a or two line              | angle with four points<br>s   |  |  |
|                   |                        | set origin of co  | oordinate                             | coordinate                         | transform   |  |  |
|                   |                        | coordinate tra  | nsform                                | automatica                         | asurement object<br>Ily according to the<br>pint and display the result |  |  |
|                   |                        | set midpoint of coordinate  |                                       | ·                                  | 33300   |  |  |
| 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  |

# 22 OPTIONAL ACCESSORY

| 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)

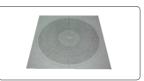
#### **OPTIONAL ACCESSORY**



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   | <u> </u>               | ISP-W4025   |  |                  | ISP-A7  | 000E  |                   |
|--|------------------------|---|--|------------------|---|---|-------------------|
| 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            |   | Ø8mm  | Ø4mm              |
|  | working distance       | 93.7mm  | 103.9mm  | 95.1mm           | <u> </u>  | 65.7mm  | 35mm              |
| Magnification  | n accuracy             | ±0.08%  |  |                  |   |   |                   |
| Image  |                        | erect image   |  |                  |   |   |                   |
|  |                        | diameter: Ø400i   | mm   |                  |   |   |                   |
| Projector scr  | reen                   | rotation range: 0   | 0°~360°, resolution: 1   | l' 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: 0.5µr   | 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  |  |                  |   |   |                   |
|  |                        | contour illumination: 24V/150W halogen lamp, brightness is adjustable               |  |                  |   |   |                   |
| Illumination   |                        | 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 measure   | coordinate of point coordinate of line center coordinate, circle with three poir | nts              |   | measure coordinate measure coordinate measure center coordinate | of line           |
| Data processing  | function               | two object  |  |                  | measure distance between two objects  |   |                   |
| unit   |                        | measure<br>or two lin   | angle with four point<br>les   | is               | measure angle with four points or two lines   |   | four points       |
|  |                        | set origin of coordinate coordinate coordinate transform                            |  |                  |   |   |                   |
|  |                        | coordina  | te transform   |                  | choose measurement object automatically according to the selective point and display the result |   | ng to the         |
|  |                        | set midpoint of coordinate  |  | opidy the result |   |   |                   |
| advanced function ———————————————————————————————————— |                        |   |  |                  | progran   | nming for batch mea   | surements         |
| Power supply   | у                      | 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  |

#### OPTIONAL ACCESSORY

| OF HONAL 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  |  |  |  |

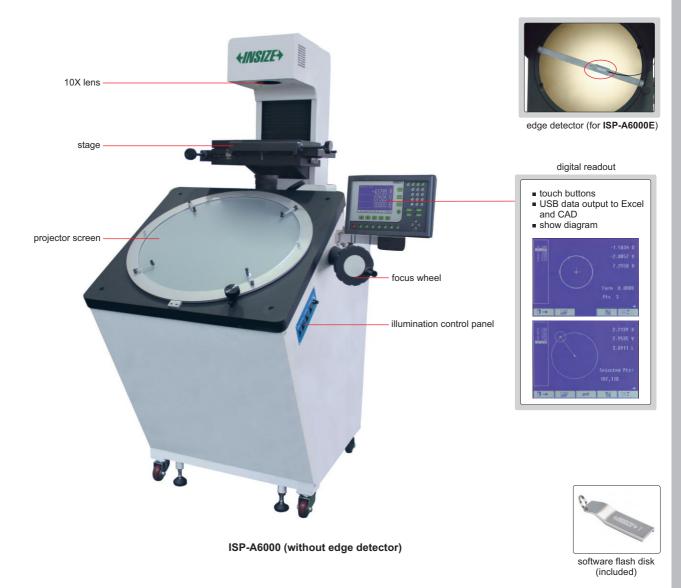
| 300mm calibration scale       | ISP-A3000-RULE    |  |
|-------------------------------|-------------------|--|
| Demo sample                   | ISP-A3000-DEMO    |  |
| V-block with clamp            | ISP-A3000-VBLOCK  |  |
| Rotary table                  | ISP-A3000-RTABLE  |  |
| Vise         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

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### **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 included  |                     |                     |                      |                 |  |
| Projector screen           |                        | diameter: Ø600mm   |                     |                     |                      |                 |  |
|                            |                        | rotation range:  | 0°~360°, resolution | n: 1' or 0.01°      |                      |                 |  |
|                            |                        | reference lines:   | cross-hairs         |                     |                      |                 |  |
|                            | magnification          | 5X (optional)  | 10X (included)      | 20X (optional)      | 50X (optional)       | 100X (optional) |  |
| Lens                       | Lens view field        |  | Ø60mm               | Ø30mm               | Ø12mm                | Ø6mm            |  |
|                            | working distance       | 242.8mm  | 143.2mm             | 85.5mm              | 92mm                 | 48.5mm          |  |
| Magnification accu         | racy                   | ±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 | ı mm                 |                 |  |
|                            | Z (focus) travel range | 50mm   |                     |                     |                      |                 |  |
|                            | max. load capacity     | 5kg  |                     |                     |                      |                 |  |
| IIIin ation                |                        | contour illumination: 24V/150W halogen lamp, brightness is adjustable  |                     |                     |                      |                 |  |
| Illumination               |                        | surface illumina   | ntion: 12V/150W ha  | alogen lamp (with 2 | fibers), position is | adjustable      |  |
|                            | display                | X-Y stage travel, screen rotation  |                     |                     |                      |                 |  |
|                            | output                 | RS232C, USB (data output to Excel and CAD)   |                     |                     |                      |                 |  |
| Data<br>processing<br>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      | programming for batch measurements   |                     |                     |                      |                 |  |
| Power supply               |                        | 110/220V, 50/60Hz  |                     |                     |                      |                 |  |
| Dimension (L×W×H)          |                        | 1200×1140×1940mm   |                     |                     |                      |                 |  |
| Weight                     |                        | 360kg  |                     |                     |                      |                 |  |
|                            |                        | 3  |                     |                     |                      |                 |  |

#### STANDARD DELIVERY

| STANDARD DELIVERT      |       |
|------------------------|-------|
| 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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#### **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   |

| 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 |  |  |