

## LARGE SIZE PROFILE PROJECTORS

HIGH PRECISION  
OBJECTIVE TURRET

MOTORIZED STAGE



- Easy online measurement of machined parts
- Large measuring range, high load-bearing capacity table
- Table deflection  $\pm 15^\circ$ , easy to measure parts with helix angle
- Motorized stage
- High precision objective turret, easy to switch the magnification (included in **ISP-T1200** and **ISP-T1500** )










ISP-T1200

### LENS SPECIFICATION

| Code            |      | ISP-T800   |                  | ISP-T1200  |                  | ISP-T1500  |                  |
|-----------------|------|------------|------------------|------------|------------------|------------|------------------|
| Parameter       |      | view field | working distance | view field | working distance | view field | working distance |
| Lens multiplier | 10X  | Ø80mm      | 206mm            | Ø120mm     | 300mm            | Ø150mm     | 330mm            |
|                 | 20X  | Ø40mm      | 123mm            | Ø60mm      | 195mm            | Ø75mm      | 225mm            |
|                 | 50X  | Ø16mm      | 85mm             | Ø24mm      | 120mm            | Ø30mm      | 143mm            |
|                 | 100X | Ø8mm       | 78mm             | Ø12mm      | 50mm             | -          | -                |

SPECIFICATION

| Code  |  | ISP-T800  | ISP-T1200         | ISP-T1500         |
|---|--|---|-------------------|-------------------|
| Projector screen  |  | diameter: Ø800mm  | diameter: Ø1200mm | diameter: Ø1500mm |
|   |  | rotation range: 0°~360°, resolution: 1'   |                   |                   |
|   |  | reference lines: cross-hairs  |                   |                   |
| Magnification accuracy  |  | ±0.06%  |                   |                   |
| Image   |  | inverted image  |                   |                   |
| Stage   | metal stage size                             | 630×200mm   | 800×230mm         |                   |
|   | vertical plane table through-light dimension | 300×200mm   | 310×205mm         | 560×255mm         |
|   | vertical round table through-light dimension | Ø90mm   | Ø130mm            | Ø330mm            |
|   | turning range                                | ±15°  |                   |                   |
|   | X-Z stage travel                             | range: 300×200mm  | range: 400×250mm  |                   |
|   |  | resolution: 1μm   |                   |                   |
|   |  | accuracy: (4+L/50)μm, L is the measuring length in mm   |                   |                   |
|   | Y (focus) travel range                       | 80mm  | 150mm             |                   |
| max. load capacity  | 50kg   | 100kg   |                   |                   |
| Illumination  |  | contour illumination: 24V/250W halogen lamp, brightness is adjustable   |                   |                   |
|   |  | surface illumination: 24V/150W halogen lamp, brightness is adjustable   |                   |                   |
| Swivel center support   | max. clamping diameter                       | Ø200mm  | Ø300mm            | Ø400mm            |
|   | max. clamping length                         | 300mm   | 450mm             |                   |
| Data processing unit  | display                                      | X-Y stage travel  |                   |                   |
|   | output                                       | RS232, USB  |                   |                   |
|   | 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 adjustment and compensation     |  |   |                   |                   |
|  for some special measurments              |  |   |                   |                   |
| advanced function   |  | programming for batch measurements  |                   |                   |
| Power supply  |  | 220V, 50/60Hz   |                   |                   |
| Dimension (L×W×H)   |  | 2130×1800×1950mm  | 3500×2320×2250mm  | 4009×2905×2418mm  |
| Weight  |  | 1900kg  | 4000kg            | 6000kg            |

STANDARD DELIVERY

| Code                  | ISP-T800 | ISP-T1200 | ISP-T1500 |
|-----------------------|----------|-----------|-----------|
| Main unit             | 1 pc     | 1 pc      | 1 pc      |
| 10X lens              | 1 pc     | 1 pc      | 1 pc      |
| 20X lens              | 1 pc     | 1 pc      | 1 pc      |
| 50X lens              | 1 pc     | 1 pc      | 1 pc      |
| 100X lens             | 1 pc     | 1 pc      | -         |
| Vertical plane table  | 1 pc     | 1 pc      | 1 pc      |
| Vertical round table  | 1 pc     | 1 pc      | 1 pc      |
| Swivel center support | 1 set    | 1 set     | 1 set     |
| V-block with clamp    | 1 set    | -         | -         |
| Magnifier             | 1 pc     | 1 pc      | 1 pc      |
| 50mm standard scale   | -        | 1 pc      | 1 pc      |
| 80mm standard scale   | 1 pc     | -         | -         |
| 120mm standard scale  | -        | 1 pc      | 1 pc      |
| 500mm glass scale     | 1 pc     | -         | -         |
| 600mm glass scale     | -        | 1 pc      | 1 pc      |
| Controller            | 1 pc     | 1 pc      | 1 pc      |