

# Quick Scope Manual

## SERIES 359 – Manual 3D Vision Measuring System

### FEATURES

- Excellent surface observation model for a wide variety of workpieces.
- 0.1  $\mu\text{m}$  resolution and 150 mm Z-axis range.
- Power zoom enables easy and fast magnification change.
- Fine-illumination capability enables lighting changes to match workpiece requirements.
- Quick release system on stage enables instant switching between coarse and fine movement.
- Quick Navigation function enables the user to repeat measurements quickly.
- An auto-focus function is standard for all QS-Z/AFB models.



QS-L2010ZB

### SPECIFICATIONS

| Model                         | QS-L2010Z/AFB                                                              | QS-L3017Z/AFB                             | QS-L4020Z/AFB      |
|-------------------------------|----------------------------------------------------------------------------|-------------------------------------------|--------------------|
| Code No.                      | 359-703                                                                    | 359-704                                   | 359-705            |
| Measuring range               | X : Y<br>200 : 100 mm                                                      | 300 : 170 mm                              | 400 : 200 mm       |
|                               | Z<br>150 mm                                                                | 150 mm                                    | 150 mm             |
| Resolution                    | 0.1 $\mu\text{m}$                                                          |                                           |                    |
| Scale type                    | Linear encoder                                                             |                                           |                    |
| Measuring accuracy (at 20°C)* | XY: $\pm(2.5+2L/100)$ $\mu\text{m}$ , Z: $\pm(5.0+0.6L/100)$ $\mu\text{m}$ |                                           |                    |
| Image detecting unit          | Colour CCD camera                                                          |                                           |                    |
| Illumination                  | Surface                                                                    | Halogen coaxial light, halogen ring light |                    |
|                               | Contour                                                                    | Halogen stage light                       |                    |
| Stage glass size              | 250 x 150 mm                                                               | 370 x 240 mm                              | 440 x 240 mm       |
| Max. workpiece height         | 150 mm                                                                     |                                           |                    |
| Max. stage loading            | 10 kg                                                                      | 20 kg                                     | 15 kg              |
| Main unit                     | Dimensions (W x D x H)                                                     | 624 x 705 x 722 mm                        | 682 x 852 x 837 mm |
|                               | Mass                                                                       | 66 kg                                     | 134 kg             |
| Control unit                  | Dimensions                                                                 | 186 x 452 x 381 mm                        |                    |
|                               | Mass                                                                       | 14 kg                                     |                    |

| Model                         | QS-L2010ZB                                                               | QS-L3017ZB                                | QS-L4020ZB         |
|-------------------------------|--------------------------------------------------------------------------|-------------------------------------------|--------------------|
| Code No.                      | 359-710                                                                  | 359-711                                   | 359-712            |
| Measuring range               | X : Y<br>200 : 100 mm                                                    | 300 : 170 mm                              | 400 : 200 mm       |
|                               | Z<br>150 mm                                                              | 150 mm                                    | 150 mm             |
| Resolution                    | 0.1 $\mu\text{m}$                                                        |                                           |                    |
| Scale type                    | Linear encoder                                                           |                                           |                    |
| Measuring accuracy (at 20°C)* | XY: $\pm(2.5+2L/100)$ $\mu\text{m}$ , Z: $\pm(5.0+4L/100)$ $\mu\text{m}$ |                                           |                    |
| Image detecting unit          | Colour CMOS camera                                                       |                                           |                    |
| Illumination                  | Surface                                                                  | Halogen coaxial light, halogen ring light |                    |
|                               | Contour                                                                  | Halogen stage light                       |                    |
| Stage glass size              | 250 x 150 mm                                                             | 370 x 240 mm                              | 440 x 240 mm       |
| Max. workpiece height         | 150 mm                                                                   |                                           |                    |
| Max. stage loading            | 10 kg                                                                    | 20 kg                                     | 15 kg              |
| Main unit                     | Dimensions (W x D x H)                                                   | 624 x 769 x 722 mm                        | 682 x 916 x 837 mm |
|                               | Mass                                                                     | 72 kg                                     | 140 kg             |
| Control unit                  | Dimensions                                                               | 310 x 330 x 102.5 mm                      |                    |
|                               | Mass                                                                     | 5 kg                                      |                    |

\* Using 2.5X zoom (QS-LZ/AFB) or 3.0X zoom (QS-LZB) magnification, L = measured distance between two arbitrary points (mm).