

Standard series

# SURFCOM 1400G-LCD/PDP

Cross Feed Device for Surface texture & Contour Measuring Instrument



## LCD Glass Substrate Waviness Measuring Instrument



Measuring range:  
(650 × 650) mm type

SURFCOM 1400G-LCD



## PDP Profile Measuring Instrument

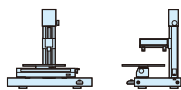


SURFCOM 1400G-PDP

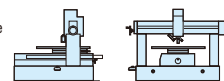
### SURFCOM 1400G-LCD

- A lineup of different measuring ranges (300 × 250) mm, (500 × 500) mm, (650 × 650) mm) to meet a wide range of needs.
- Allows measuring of waviness, roughness, bowing, step profiles and other characteristics.
- Uses SURFCOM 1400G computer for data processing unit.

X-axis drive distance  
300 mm type



X/Y-axis drive distance  
500 mm type  
650 mm type



### Specifications \* When high magnification pickup is used

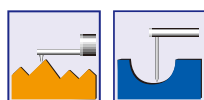
| Model                            | SURFCOM 1400G-LCD                              |
|----------------------------------|--|
| Vertical magnification display   | 50 to 500 k* (arbitrary or auto)               |
| Horizontal magnification display | 1 to 20 k (arbitrary or auto)                  |
| Measuring force                  | 0.75 mN  |
| Straightness accuracy            | (0.05 + 1.5L/1000) μm (L: Measuring length mm) |
| Parameters                       | Roughness: 36 types, Waviness: 24 types        |

### SURFCOM 1400G-PDP

- Dedicated instrument for optimal measurement of film deposition thickness on color PDP front substrates and rib height on the back substrates.
- Motor driven X-axis tracing driver itself (900 mm in the X-direction, 1300 mm in the Y-direction), measurements can be performed within this movement range.
- Uses SURFCOM 1400G computer for data processing unit.

### Specifications \* When high magnification pickup is used

| Model                              | SURFCOM 1400G-PDP                                  |
|------------------------------------|--|
| X-Y travel range                   | X=900 mm (motor drive),<br>Y=1300 mm (motor drive) |
| X-Y travel speed                   | 100 mm/s max.                                      |
| Measuring height                   | 50 mm Z-axis stroke (manual)                       |
| Tracing driver title angle         | ±5° (manual)                                       |
| Roughness measuring range          | 100 mm X-axis direction                            |
| Straightness accuracy              | (0.05 + 1.5L/1000) μm (L: Measuring length mm)     |
| Vertical recording magnification   | 50 to 50 k times* (arbitrary or auto)              |
| Horizontal recording magnification | 1 to 20 k times (arbitrary or auto)                |
| Measuring force                    | 0.75 mN  |
| Load                               | 20 kg or less                                      |
| Power supply, frequency            | AC100 V ±10% (grounding required), 50 Hz/60 Hz     |
| Dimensions (W x D x H)             | 2040 mm x 1420 mm x 1350 mm (Excluding CPU)        |
| Weight                             | Approx. 1800 kg                                    |



## Column Cross Feed Device

Photo shows connection with SURFCOM 1400G. (motor-driven X-axis)

\* Anti-vibration table is optional.



## Cross Feed Device for Surface Texture & Contour Measuring Instrument

- Enables measurement of heavy items like cylinder blocks and long items such as crankshafts.
- Ideal for automotive and instrument tool parts.
- Motor driven or manual type can be selected for the X-axis feed according to individual requirements.
- Long-lasting gabbro used for the measuring stand.

### Specifications

| Model                      | Cross Feed Device for Surface Texture & Contour Measuring Instrument |
|----------------------------|--|
| Moving range               | X-direction stroke: 660 mm   |
|                            | Y-direction stroke: 200 mm   |
|                            | Z-direction stroke: 250 mm, 450 mm, 650 mm selectable                |
| Permissible loading weight | 100 kg or less   |
| Applicable models          | SURFCOM 480B, 1400G, 1800G, 2800G<br>CONTOURECORD 1600G, 2600G       |