

# PV-5110

## SERIES 304 – Profile Projectors

- Floor-standing model using overhead illumination which allows a large, conveniently positioned screen so that projected images can be easily traced or compared with a template.
- Digital readout protractor screen (including zero-setting, ABS/INC coordinate switching functions) for easy and error-free angle measurement.
- The optional oblique surface illumination unit (**172-419**) provides clear and bright images, allowing easy inspection of non-reflective workpieces such as plastic parts or printed materials.

### PV-5110

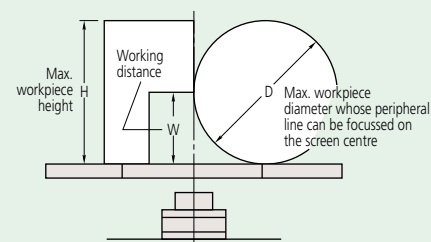
with optional KA Counter  
and Counter stand



### Technical Data

|                           |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| Projected image:          | Inverted                                                                |
| Protractor screen         |                                                                         |
| Effective diameter:       | 315 mm (12.4")                                                          |
| Screen material:          | Fine-ground glass                                                       |
| Screen rotation:          | ±360°, fine feed and clamp                                              |
| Angle reading:            | Digital counter (LED)                                                   |
|                           | Resolution: 1' or 0.01° (switchable)                                    |
|                           | Range: ±370°                                                            |
|                           | ABS/INC mode switching, Zero Set                                        |
| Reference lines:          | Cross hairs                                                             |
| Projection lens:          | 10X ( <b>172-402</b> )                                                  |
|                           | Optional: 20X, 50X, 100X                                                |
| Magnification accuracy    |                                                                         |
| Contour illumination:     | ±0.1% or better                                                         |
| Surface illumination:     | ±0.15% or better                                                        |
| Maximum workpiece height: | Refer to the projection capacity (H) below.                             |
| Contour illumination      |                                                                         |
| Light source:             | Halogen bulb (24V, 150W)                                                |
| Optical system:           | Telecentric                                                             |
| Functions:                | 2-step (High/Low) brightness switch, Heat-absorbing filter, Cooling fan |
| Surface illumination      |                                                                         |
| Light source:             | Halogen bulb (24V, 150W)                                                |
| Optical system:           | Vertical illumination with adjustable condenser lens                    |
| Functions:                | Heat-absorbing filter, Cooling fan                                      |
| Focussing:                | Manual                                                                  |
| Resolution:               | 0.001 mm or .0001"/0.001 mm<br>(.00005"/0.001 mm: digital head)         |
| Power supply:             | 100-240V AC, 50/60Hz                                                    |
| Mass:                     | 105-140 kg                                                              |

### Projection Capacity



|            | Magnification |       |       |        |       |
|------------|---------------|-------|-------|--------|-------|
|            | 5X            | 10X   | 20X   | 50X    | 100X  |
| View field | ø101.6        | ø50.8 | ø25.4 | ø10.16 | ø5.08 |
| H          | 125           | 181   | 206   | 87     | 87    |
| W          | 60 (27)       | 60    | 60    | 32.4   | 22.5  |
| D          | 120           | 120   | 120   | 64.8   | 45    |

( ): When using surface illumination

### SPECIFICATIONS

|                         |                |
|-------------------------|----------------|
| Model                   | PV-5110        |
| Code No.                | 304-909E       |
| XY stage travel range   | 200 x 100 mm   |
| Measurement method      | Linear encoder |
| Quick-release mechanism | X and Y axes   |
| XY stage top size       | 380 x 250 mm   |
| XY stage effective area | 266 x 170 mm   |
| Stage glass No.         | 382762         |
| Swivel function         | ±3°            |
| Max. stage loading      | 5 kg           |
| Price                   | £POA           |