

VB300

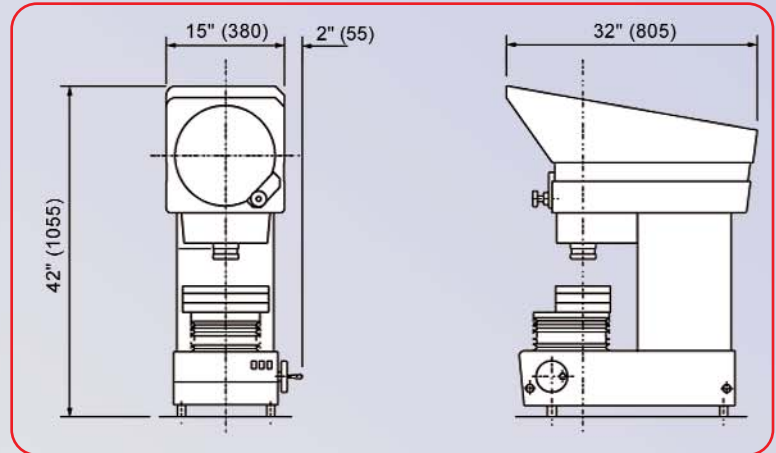
Vertical Benchtop Measuring Projector

The VB300 has a 12" (300mm) screen diameter, measuring travel of 6" x 2.8" (150 x 70mm), and a 4" (100mm) manual focus



Features

- Rigid all metal construction
- Fully useable 12" (300mm) diameter screen
- 4" (100mm) manual focus
- Electronic Digital Protractor
- Precision workstage with top 10.6" x 6.9" (270mm x 175mm) top plate
- Twin-bundle, adjustable on-axis, fiber optic surface illumination options available
- Rapid traverse, quick release mechanism on X and Y axes
- Quick-action single lens mount
- Integral hood
- Wide range of multi-element precision ground lenses
- Choice of Quadra-Chek® readout systems
- Wide range of available accessories



Technical Specifications

Screen Diameter: Fully useable 12" (300mm) diameter screen with crosslines, calibration marks and overlay clips

Workstage Measuring:

- Top Plate* – 10.6" x 6.9" (270mm x 175mm) staging area
- Glass Insert* – 8" x 4.5" (200mm x 115mm)
- Travel* – 6" x 2.8" (150mm x 70mm)

Workstage Capacity:

11 lb. (5 kg)

Illumination

- Profile* – Fan Cooled Dual intensity (hi/low) tungsten halogen profile with yellow/green filter
- Surface* – On-axis adjustable

Measurement Display Systems:

- Linear* – Heidenhain .00005" (0.001mm) resolution scales
- Quadra-Chek readout systems with edge sensing options
- Angle* – Digital protractor with (1 minute resolution)
- Lenses:** 10x, 20x, 25x, 31.25x, 50x, and 100x magnifications available

Specifications subject to change.

Terminology

Working Distance is the distance between the objective lens and the component when the component is in focus.

Field of View (FOV) is the viewing area of the component. A 30mm FOV using a 10x lens would produce a screen image of 300mm.

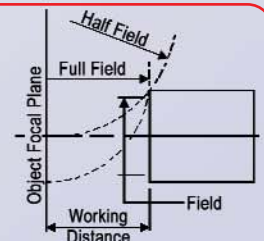
Half Field View is the maximum size a component can be projected to the center of the screen before colliding with the lens.

Full Field View is the maximum size a component can be projected over the full screen before colliding with the lens.

Projected Image is how a component is projected onto the screen in relation to its placement on the workstage.

Guide to Maximum Component Size (In inches)

| Magnification | | X10 | X20 | X25 | X50 | X100 |
|-------------------|------------|--------------------|------|------|------|------|
| Field of View | | 1.18 | 0.59 | 0.47 | 0.24 | 0.12 |
| Working Distance | | 3.15 | 2.99 | 2.44 | 1.97 | 1.61 |
| Max Work Diameter | Half Field | 6.30 | 6.30 | 6.30 | 5.67 | 4.17 |
| | Full Field | 6.30 | 6.30 | 6.30 | 4.92 | 3.86 |
| Projected Image | | Vertically Correct | | | | |



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