



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

ONE TOUCH INSPECTION SYSTEM

- *VALUE*
- *VERSATILITY*
- *PERFORMANCE*



BiVM-30/60/80



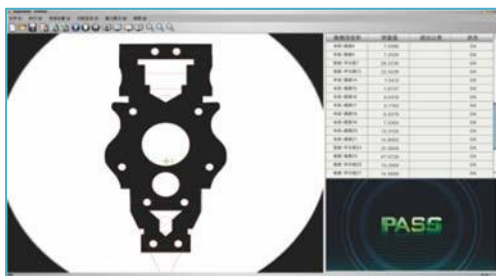
DISCRIPTION: -

The BiVM Series image dimension measurement system is a completely innovative measuring instrument designed around simple Place and Press operation. The BiVM Series allows anyone, regardless of expertise and skill level, to easily, quickly, and accurately perform hundreds of measurements in just seconds.

Optical comparators, measuring microscopes, and optical CMMs are popular as instruments that use images for measuring the dimensions of a target. These instruments capture an image of a target, identify the edges to be measured based on human vision (or automatic recognition), measure the movement of the X Y stage, and obtain the dimensions of the target.

Our BiVM Series obtain a profile of the whole part first, upon which measurements are carried out. This is possibly by our experience and expertise in high-performance optics. This allows an operator to simply place the part on the stage and hit measure to perform hundreds of measurements in seconds.

BiVM series have advantages compare with conventional quality inspection instruments, it performs high precision measurements, automatically record data and generate report with the push of a button.



FEATURES: -

- Image dimension measurement system features simple place and press operation, provides both incredible measurement speed and high measurement accuracy.
- Simply target on the stage and press the measurement start button, then system executes measurement of a number of points in the captured image in only seconds.
- No variation in measurement result among different operators
- When target edges are identified based on human vision, it is impossible to eliminate variations and errors caused by individual differences or skill levels. With the BiVM Series image dimension measurement system that detects edges automatically, the measurement result is stable and consistent regardless of operators.
- Measurement results are automatically recorded and generate reports. All measurement results and critical identifiers are automatically recorded to simplify data management, then calculates and displays critical statistical values.
- The BiVM Series obtain an image of the part using its unique wide-field, high-precision telecentric optical system. The telecentric optical system features constant image size regardless of height differences, large depth-of-field for sharp focus at various heights, and no image distortion despite part placement on stage.
- The edges (boundaries between bright and dark areas) of the captured image are accurately detected using our sub-pixel processing (to 1/100th or less of a pixel) upon which defined measurements are performed in seconds.

**TECHNICAL SPECIFICATION: -**

Model No	BiVM-30	BiVM-60	BiVM-80
Video Sensor	5MP CCD		
Lens	wide-field, high-precision tele centric optical system		
Field of View	25x20mm	80x60mm	95x80mm
Accuracy	±0.002mm	±0.004mm	±0.005mm
Repeatability	±0.001mm	±0.001mm	±0.0015mm
Net Weight	25Kg	50Kg	50Kg
Dimension	600×400×750	650×430×950	650×430×950
Illumination	Parallel surface and contour light		
Software	Inspectacle 1.0		
Computer	Intel I5, CPU 4G		
Monitor	21.5" LCD		
Work Environment	25°C±2°C, Humidity 20-80%RH		
Measuring Time	Less than 5 seconds (within 100 measurements)		
Software Function	Measure point, line, circle, arc, angle, distance, etc. the basic functions		
Auxiliary Function	Line cross, parallel, perpendicular, tangency, etc.		
Geometric Tolerance	Position tolerance, form and position tolerance, dimensional tolerance		