

HARDNESS TESTERS

Optical Brinell Reader



PHT-5000 Optical Brinell Hardness Video Measurement System

- **Friendly User Interface:** Automatic measurement with a key stroke or a click of a button. Test results can be manually generated or corrected with a single mouse drag move
- **High reliability:** Advanced image processing and analysis technologies in automatic measurement. Field proven under severe sample surface conditions;
- **Single camera with four magnifications:** 1.3M pixel CMOS USB camera with two camera tubes with each tube height having two magnifications.

Full measurement range is covered with four magnifications for better measurement accuracy. Specifically, tube 1 magnification #1 is suitable for indentation diameters 3-6mm, magnification #2 for 0.8-1.6mm, while tube 2 magnification #3 for 2-4mm, and magnification #4 for 1-2mm.

Includes the basic functions of an imaging system such as image capture, camera calibration, image processing, geometric measurement, document labeling, and album management; automatically or manually measures the indentation diameter and calculates the Brinell hardness (HB) value; HB2 (DIN 1605 standard) automatic measurement:

Automatically or manually measures the indentation diameters on the calibration sample and the test sample, and automatically interpolates the Brinell hardness (HB) value for the test sample; Converts Brinell (HB) to other hardness scales—Validates the test results with sample dimensions; automatically updates the statistical values such as average, min and max, standard deviation, Cp and Cpk; Auto-alarm: Automatically marks the out of spec measurements; Test report: Automatically generates customizable WORD or EXCEL report.