

## Hardness Tester Vickers ITK-VKHV2

### Automatic Measuring System

#### Standard configuration:

digital Micro / Vickers hardness testers 1 set

Computer 1 set

CCD Camera 1 set

1.5× Adapter 1 pc

USB Softdog 1 pc

Control Cables 1 pc

RS232 Cable 1 pc

Motorized Test Table 1 pc

Motorized Test Table Control Box 1 pc

Measuring Software 1 pc

Ink Jet Printer 1 set



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## Technical Specifications:

1. Computer: Lenovo computer (2G memory, 500G hard disk, 19 inch LCD screen)

2. Ink jet printer

3. Operating system: WIN XP、WIN7

4. Digital imaging system

High resolution: 130 million pixel(1280×1024)

High speed acquisition: 1280×1024 resolution: 25 FPS

High definition: Black and white images and clarity is better.

Target surface size: 1/2 inch

5. X-Y automatic test table

Table size: 100×100×50 mm

Maximum travel: 50×50 mm

Minimum step: Less than 1μm

Movement speed: Adjustable

Control mode: Manual control, electric control, computer control

6. X-Y test table - computer control mode

Location movement: The test table directly moves to the software settings;

Point movement: Select any point of the sample, moved to the below of the indenter;

Directional movement: Click the eight directions to make the test table move and the moving step can be set up;

Arbitrary movement: Click any directions to make the test table move and make it easy for users to browse the specimen surface;

Variable speed movement: There are two speeds (fast and slow) when moving the test table and the speed is optional and adjustable;

Other function: Original position arbitrary setting, automatic reset, mechanical limit, and other professional features to meet various requirements.

7. Measuring method

Automatic mode——Automatic test table moving (X and Y direction) + automatic reading

Manual mode 1——Automatic loading + manual eyepiece scribed line measurement

Manual mode 2——Manual test table moving + manual focus + Automatic / manual measurement

8. Automatic / manual reading

Automatic reading time: Single indentation reading time is about 300 milliseconds;

Automatic measurement precision: 0.1μm;

Automatic measurement repeatability: ±0.8%

Manual reading: Manual pick, automatic search points, 4 points measurement, 2 diagonal measurement

9. Results save / output

Save / output measurement data and experimental parameters, including D1,D2,HV,X,Y etc.;

Save / output effective hardening layer depth curve report;

Save / output image.



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