

HST HV-i10/30/50SE intelligent (microscopic) Vickers hardness tester



I、 Product Introduction

This product is a new generation of intelligent hardness tester with one-click measurement value.

II、 Key features and functions

1. Modern minimalist design
2. Automatic brick tower
3. Hardness values are **automatically measured**

Automatic precise measurement without manual positioning. The new algorithm can detect indentations on rough or scratched surfaces

4. 3 Station automatic turret

HV indenter, objective lens configuration 10X, 40X (2.5X, 5X, 20X, 50X optional), both objective lenses available for hardness measurement

5. 6 Position precision, automatic turret (optional)

HV, HK indenter, multi-objective configuration 10X, 40X(2.5X, 5X, 20X, 50X optional)

6. Indenter and objective collision protection

7. Built-in 5-megapixel, high-definition industrial camera for clearer images (12-megapixel optional)

8. Sample Panoramic Camera (Optional)

The panoramic camera included generates a panoramic image of the sample without image stitching

9. Qr code scanning, cloud storage of test data, data analysis, remote diagnosis and upgrade (optional)

Real-time display of real-time test data and historical data on mobile phones and computers

10. Automatically generate user-customized reports

11. Automatically calculate hardness value uncertainty (optional)

12. Automatically generate documentation required for CNAS review (optional)

13. Remote Diagnostics and Upgrades (Optional)

technical parameter:

LOADS AND PPLICATIONS

Force values and applications

Model Model	HST HV-i10SE (HST HV-i30SE)	HST HV-i50SE
picture Appearance picture		
Load range (main loads) Force range	0.3- 10kgf (0.3-30Kgf)	0.5-50 kgf
Auto change load Force values switch automatically	Yes	Yes
Vickers capability Vickers measurement	Yes	Yes
Knoop capability	-	-

Knoop measurement		
Brinell capability(Optional) Brinell measurement (optional)	-	Yes
STAGES AND TURRETS		
Sample stage and brick tower		
XY-stage	Manual	Manual
XY-stage Size XY sample stage size (mm)	100x100	100x100
XY-stage stroke Max size: 200 x200mm XY sample stage travel (mm) Up to 200 x200mm	30x30	30x30
Vertical capacity (mm) Maximum height of the sample (mm)	160	160
Throat depth (mm) Throat depth	170	170
Motorized turret Automatic turret	Yes	Yes
Turret positions Number of turret positions	3 (6)	3 (6)
Weight (kg) Weight (kg)	40	40
Size, L*W*H(mm) (not include PC) Size, depth * width * height (mm) (PC excluded)	450 * 205 * 650	
CAMERAS AND OPTICS		
Optics and Photography		
Objective Lens Objective lens	10X, 20X (2.5X,5X, 40X,50X optional)	10X, 20X (2.5X,5X, 40X, 50X optional)
Evaluation camera resolution Measure camera resolution	5 MP (12 MP optional)	
Auto illumination Automatic brightness adjustment	Yes	Yes
Stage illumination Sample stage illumination	Optional	Optional
Lase guider	Optional	Optional

Laser crosshair positioning		
SOFTWARE		
Software		
Hardness values are automatically measured	Yes	Yes
Report editor Report Output	Yes	Yes
Data export Data export	Yes	Yes
OS operating system Operating system	Win 10	Win 10
Wi-Fi	Yes	Yes
Blue tooth Bluetooth	Optional	Optional

III、 Standard Configuration

Host	1 unit
Desktop computer	1
Software (stored in the computer) dongle	1
Flat mouth, fine wire clamping table	1 each
Hardness blocks (high and low values)	1 block each

HST GROUP Co., LTD.

NO. 4915, West Jingshi Road, Jinan 250012, PR CHINA.

Tel: +86-15910081986

www.hssdgroup.com E-mail: admin@hssdtest.com