

Video Micro Vickers Hardness Tester



Main functions and features:

- With digital CCD eyepiece and Data computing systems
- Just click one button the hardness value will display on screen directly.
- Protected by the state patent application of the lift & down system, the machine focus more easily and working more stable; Proprietary ball repositioning system ensure the repeat precision and repeatability of the whole test process;
- The light strength can be adjusted according to the operator to avoid the visual fatigue for long time operation.
- With Vickers hardness and Knoop hardness testing capabilities.
- Automatic measuring the indentation diagonal length, the hardness and conversion hardness will show on the screen directly, no need to check hardness table.
- Digital screen display hardness value, conversion hardness, testing method, testing force, dwell time, test number and testing process; The built-in printer can print testing times, hardness value, average value, Max. Value, Min. Value, Xmax-Xmin directly, easy for operator to save the data.
- Industrial digital screen can direct display hardness value, conversion hardness, testing method, testing force, dwell time, test number and testing process; The built-in printer can print testing times, hardness value, average value, Max. Value, Min. Value, Xmax-Xmin directly, easy for operator to save the data.
- Casting aluminium moulding shell ensure structure more stable with white colour looking more decent and scratch resistance used for years still brightness like new

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Technical Specifications	HVHS-1000LCD
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1, HV2
Hardness conversion scale	HRA, HRB, HRC, HRD, HK, HBS, H15N, H30N, H45N, H15T, H30T, H45T
Testing Force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N)
Test force error	±1.0%
Loading speed	≤50μm/sec
Indenter	Standard Rectangular pyramid diamond indenter (136°±0.5°)
Min. Measuring Unit	0.01μm
Hardness Value Range	1HV-4000HV
Monitor Screen	12" screen (see indentation image)
Hardness value of Reading	Digital LCD Screen (62x44mm)
Total Magnification	100X (For Observation), 400X (For Measurement) (Can be extended to 150X or 600X)
Loading Method	Automatically (Load, dwell and unload)
Dwell Time	1-99s (each step is 1 second)
Turret	Auto Turret
Objective lens center and indenter center	Coincidence accuracy error < 1μm (objective lens center position can be adjusted)
Maximum Height	85mm
Distance from Indenter Center to Fuselage	115mm
Instrument size and Net weight	490×185×515mm (L×W×H) and 43kg
Light Source	LED Cold light source (can be continuous use for 24 hours, no heat generates ensure stable working, servicing life can reach 100,000 hours)
Power Supply	220V + 5%, 50/60 Hz (110V is available)
Data Output	Built-in Printer; Built-in RS-232 interface (Transfer data to the computer, easy for long time save)
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm Moving Resolution Ratio: 0.01mm (Digital X-Y Testing Table with digital LCD Screen for Optional)

Standard Accessories	
<ul style="list-style-type: none"> • 10X Digital micrometer eyepiece: 1pc • 10X and 40X objective lens Vickers indenter: 1pc • X-Y testing table:1pc • Flat fixture: 1pc • Sheet specimen fixture:1pc • Small parts fixture:1pc • Gradient Data transfer software: 1pc • Data line:1pc • Power cable:1pc 	<ul style="list-style-type: none"> ••••• Dust-proof cover: 1pc • Manual book: 1pc • Hardness Conversion Tables:1pc • Quality certificate :1pc • Warranty Card :1pc • Accessory case:1pc • Video measurement device (including a CCD micrometer eyepiece and a 12-inch LCD screen) • 2 Pieces: Standard Hardness Blocks • 4 Pieces: horizontal adjusting screw
Optional Accessories	
<ul style="list-style-type: none"> • Hardness measuring software • Metallographic device • Knoop Indenter • Standard hardness block • 15X micrometer eyepiece 	