

uVicky-5/10/30/50/100/120 Macro Vickers Hardness Tester



Video



Contact us

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Features and Applications

Product Features

- Closed loop design with high accuracy load cell, instead of dead weights, loading - dwell - unloading automatically.
- With load automatic correct function, greatly improved test accuracy and get calibration more easy.
- Hardness value automatic corrected according to different hardness block.
- 8" Touch screen interface with menu structure, easy to operate.
- Any three of the 5X, 10X, 20X, and 40X objective lenses are installed to ensure the indentation of different sizes can meet the standard size in the field of view. At the same time, a wide range of sample profile scanning can be carried out with low magnification.
- All the three objective lenses can realize the measurement function.
- Level 11 test force, to meet all the test forces in the range of the standard. force value is optional.
- Indentor and objective lens automatically switch to each other, and accurately automatic positioning of test point.
- It can be calibrated according to the standard hardness block or length scale, and the hardness can be modified automatically according to the high, middle and low hardness values.
- Test setting parameters are protected by password.
- LED illumination, long life, no need to replace the bulb.
- Built-in camera, clearer image (optional).
- Chinese, English and other languages for choice.
- With RS-232 interface, on-line with computer (optional).
- Test data can save to USB flash disk as EXCEL format, edit and process more easy.
- Equipped with dual optical path, one optical path for eyepiece system, another path for CCD camera, both path can working in same time, no need switch optical path rod. Greatly extend the service life of the optical system.
- OK/NG judgement function.
- Modular design, simple maintenance.
- With hardness conversion function, from HV hardness value can covert to HR, HB, etc.
- With HV/HK test function.

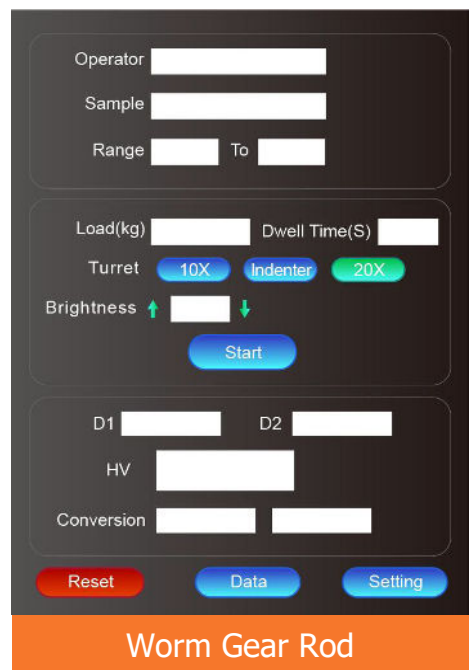
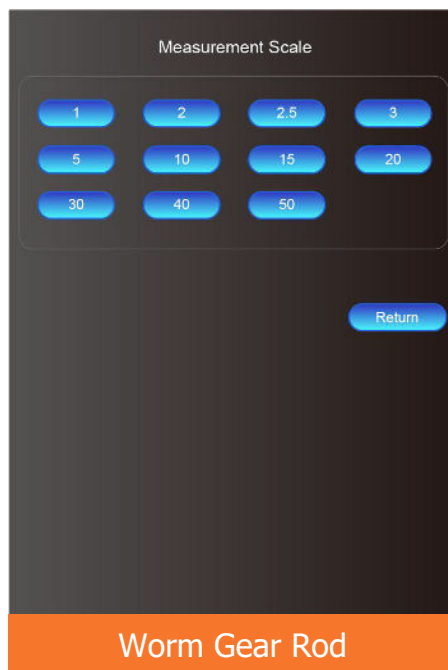
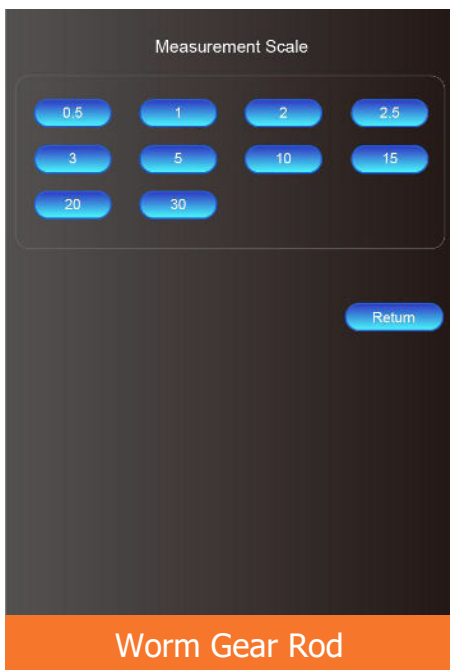
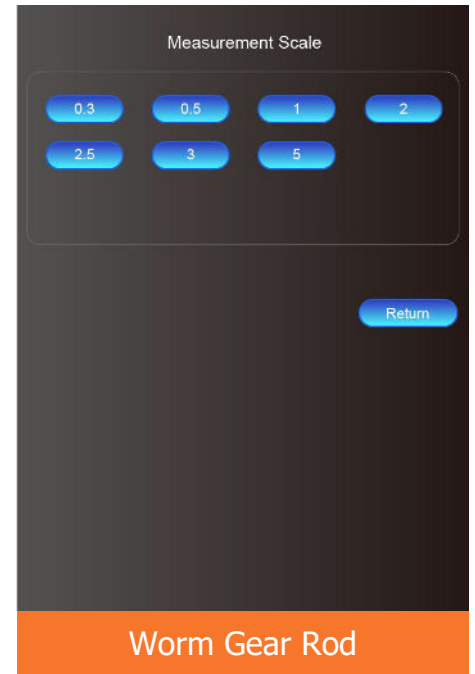
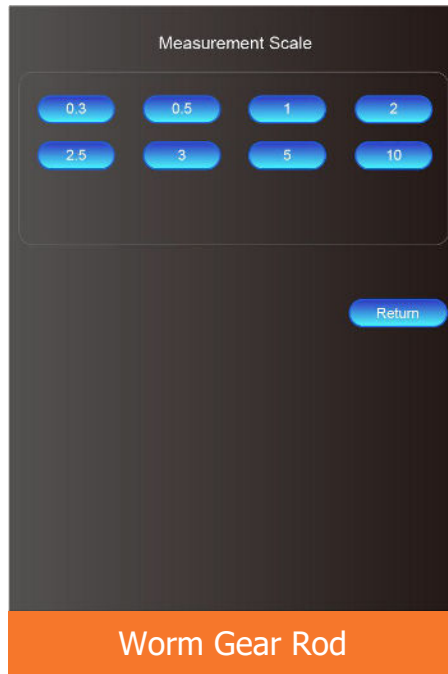
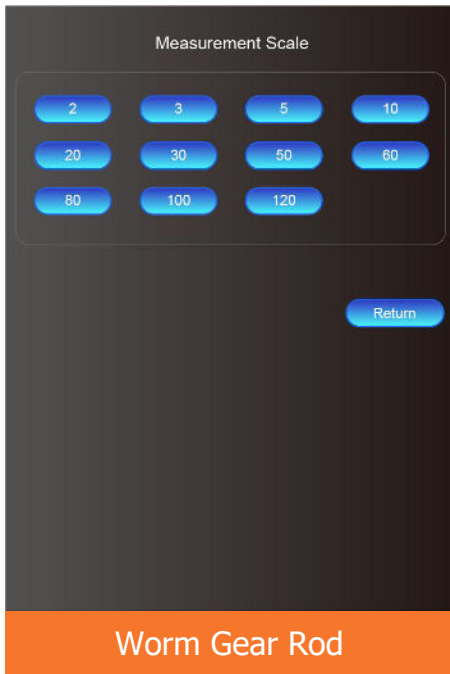
Features and Applications

Product Applications

- Widely used to test the hardness of all kinds of metal materials (steel, nonferrous metals, tinsel, cemented carbide, sheet metal, etc.).Surface layer / coating (Carburization, nitriding,de-carburization layer, surface hardening layer, galvanized coating, etc.).Glass, chip,ceramic, plastic and rubber, etc.



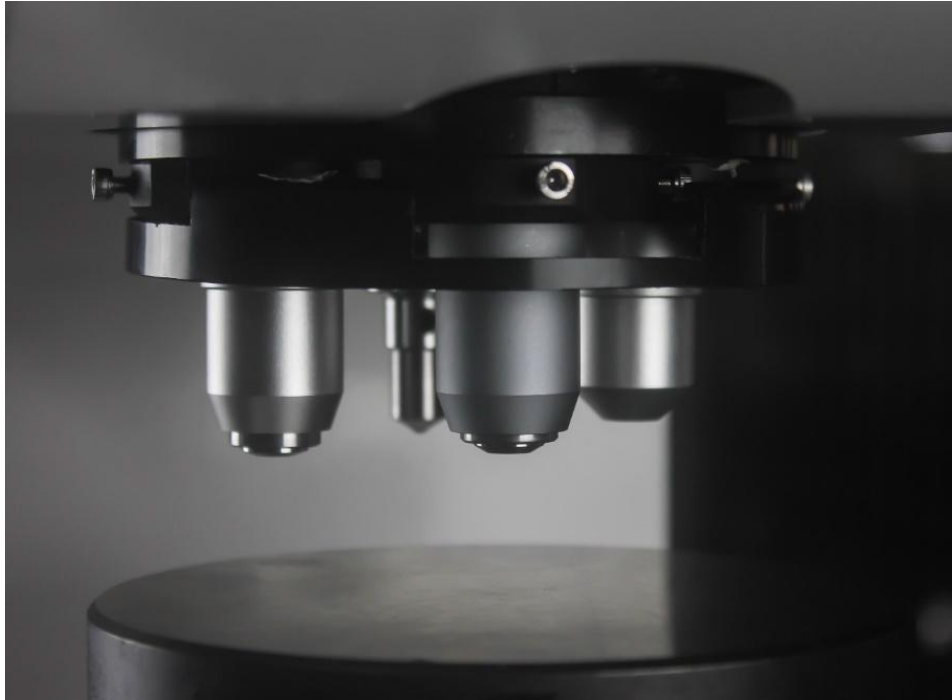
Operation Interface



- 8" Touch screen interface with menu structure, easy to operate. Chinese, English and other languages for choice. Test setting parameters are protected by password. OK/NG judgment function. With hardness conversion function, from HV hardness value can convert to HR, HB, etc.

Product Details

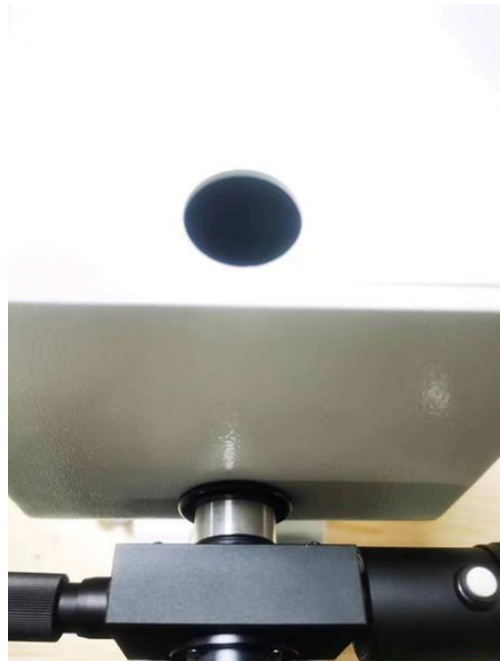
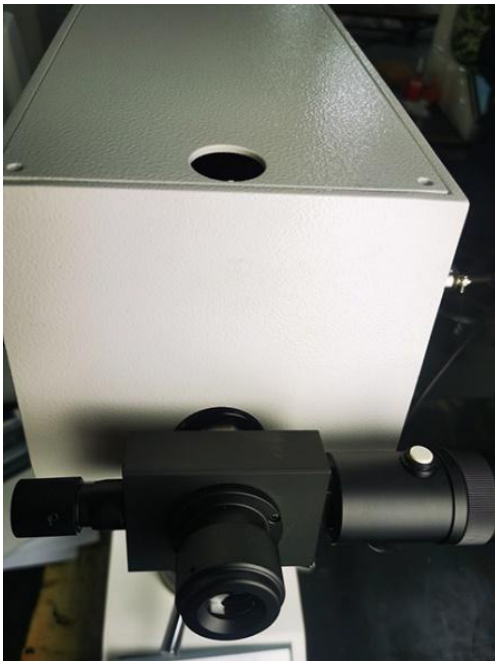
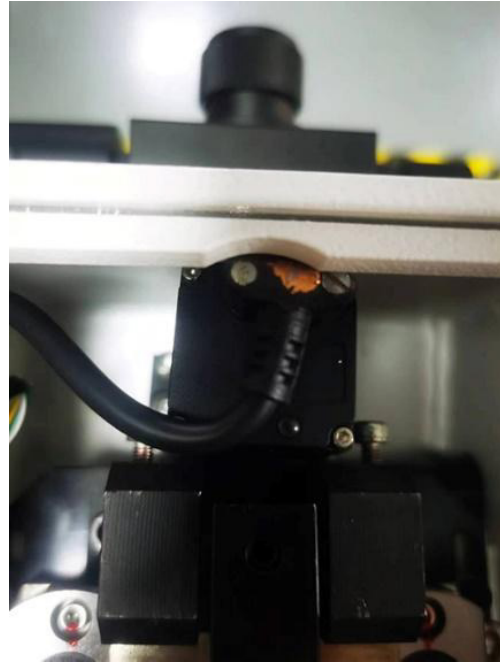
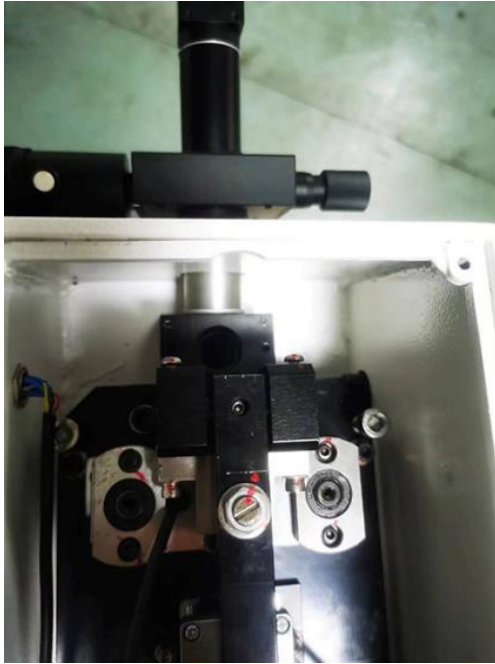
Turret Structure



- Any three of the 5X, 10X, 20X, and 40X objective lenses are installed to ensure the indentation of different sizes can meet the standard size in the field of view. At the same time, a wide range of sample profile scanning can be carried out with low magnification.

Product Details

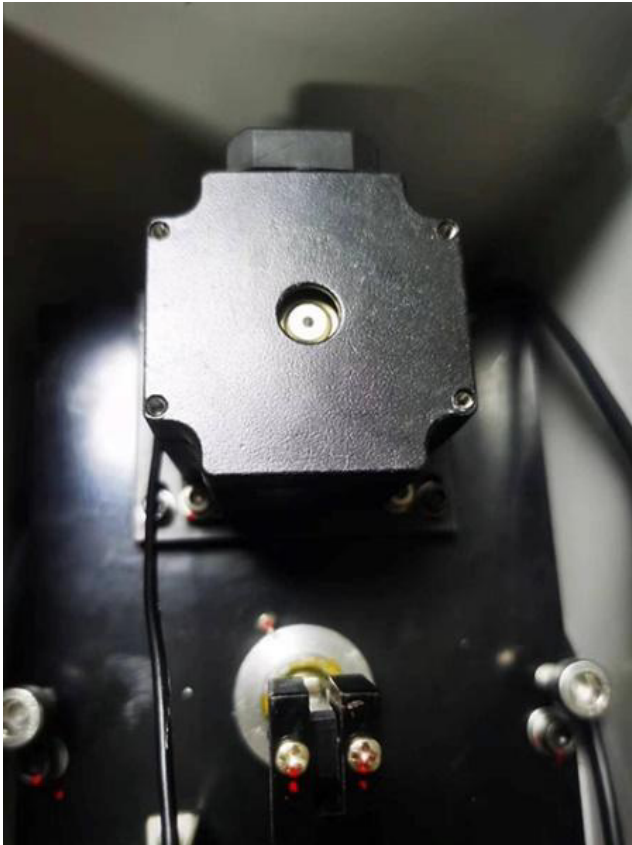
User Friendly



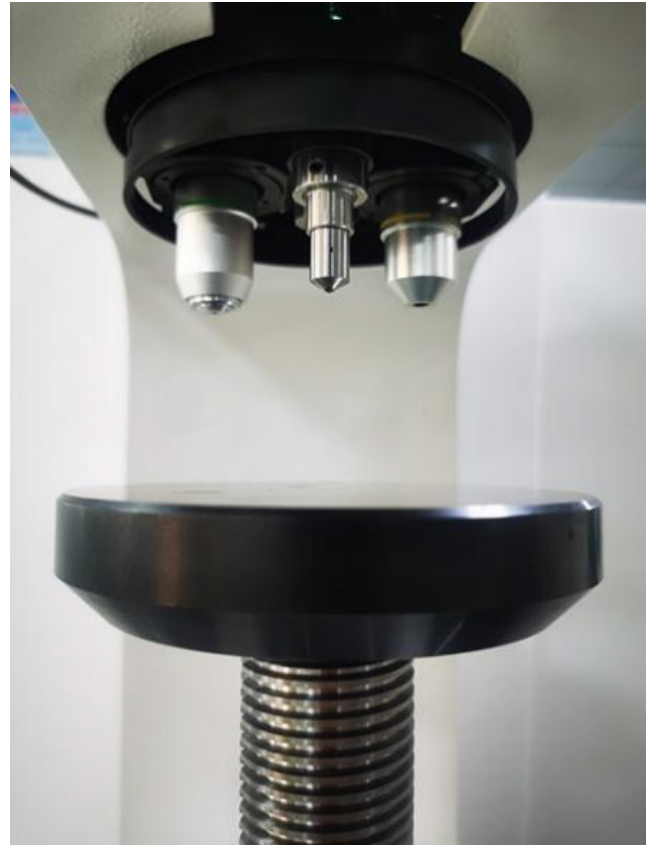
- Equipped with dual optical path, one optical path for eyepiece system, another path for CCD camera, both path can working in same time, no need switch optical path rod. Greatly extend the service life of the optical system.

Product Details

Machine More Detailed Photoes



Closed Loop System



Closed Loop System



One Indenter with Two Objective System



Digital Eyepiece

Product Details

Machine Lifting Screw



Data Output



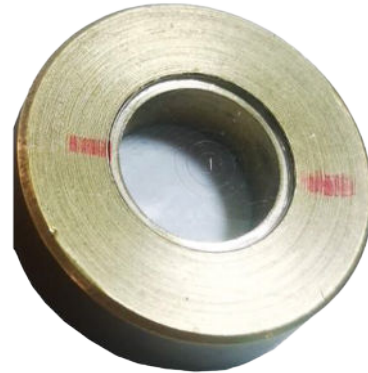
- Test data can save to USB flash disk as EXCEL format, edit and process more easy. Optional RS-232 interface, on-line with computer (optional).

Product Details

Calibration Method



Standard Block



Length Scale

- It can be calibrated according to the standard hardness block or length scale to make hardness value more accurately. RS-232 interface connected to computer for data output, testing result can be saved in USB (optional) in EXCEL format. built-in mini-printer to print testing data.

Calibration Method



One Indentor , Two Objectives

uVicky-5 Macro Vickers Hardness Tester
uVicky-10 Macro Vickers Hardness Tester
uVicky-30 Macro Vickers Hardness Tester
uVicky-50 Macro Vickers Hardness Tester
uVicky-100 Macro Vickers Hardness Tester
uVicky-120 Macro Vickers Hardness Tester

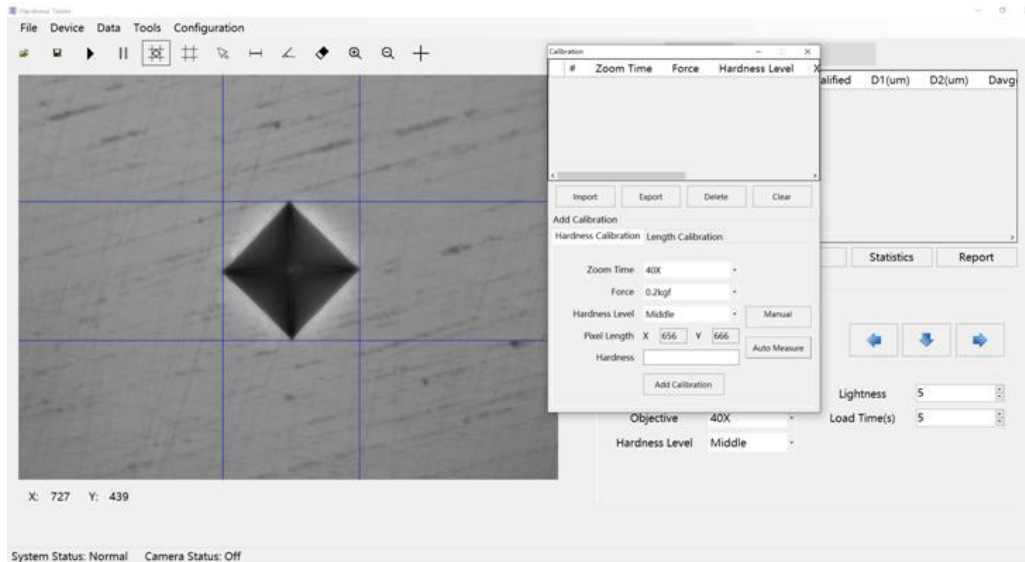


One Indentor , Three Objectives

uVicky-5-Q Macro Vickers Hardness Tester
uVicky-10-Q Macro Vickers Hardness Tester
uVicky-30-Q Macro Vickers Hardness Tester
uVicky-50-Q Macro Vickers Hardness Tester
uVicky-100-Q Macro Vickers Hardness Tester
uVicky-120-Q Macro Vickers Hardness Tester

Macro Vickers Measuring Software(Optional)

Description

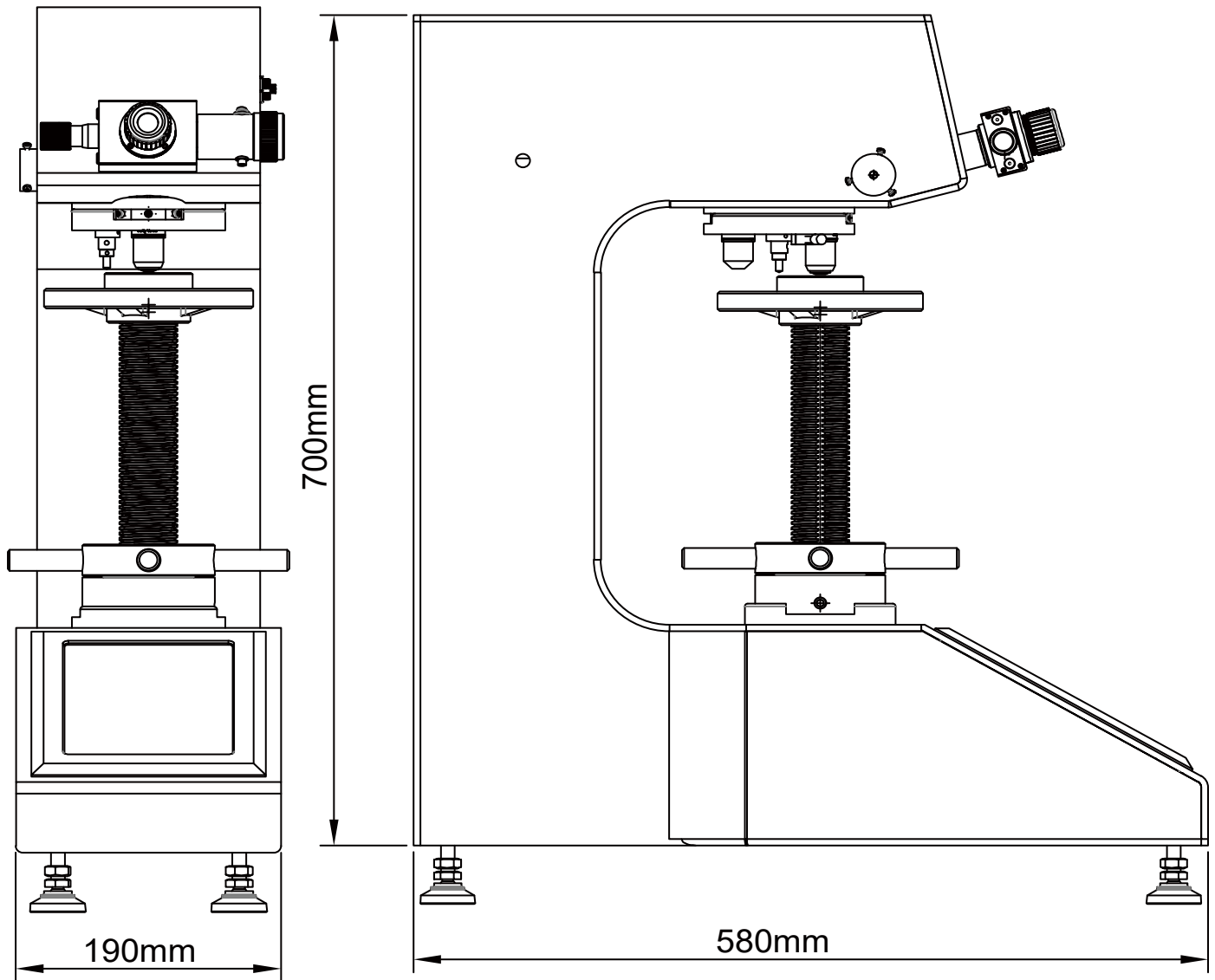


- The measuring system can be matched with a variety of Vickers hardness tester, upgrade the hardness tester to the computer measuring system.
- The measuring system is integrated with the hardness tester. Computer controlled hardness tester, such as turret, brightness adjustment (can only be used with our company's automatic turret (micro) Vickers hardness tester).
- Suitable for micro and Vickers hardness tester, its maximum test force can be: 1, 5, 10, 30, 50,120 kg.
- Image clear, indentation measurement automatic/manual measurement.
- Calibration using micrometer or hardness block calibration, automatic calibration.
- Hardness according to national standard and ASTM conversion to other hardness. Hardness value statistics and hardness beyond the alarm.
- The test report can be customized by users, and all the test data will be saved forever for easy historical query.

Standard Configuration

Item	Specification	Qty
Camera	5 million pixels	1 pc
Adapter	Connect the machine and camera	1 pc
USB Flash Disc	Includes software and instruction manual	1 pc
Encryption dog	/	1 pc

Instrument Dimension



Technical Specification

Model	uVicky-5	uVicky-10	uVicky-30	uVicky-50	uVicky-100	uVicky-120
	uVicky-5Q	uVicky-10Q	uVicky-30Q	uVicky-50Q	uVicky-100Q	uVicky-120Q
Objective Lens	10X/20X (uVicky-5/ 10/ 30/ 50/ 100/ 120)			10X/20X/40X (uVicky5Q /10Q /30Q /50Q /100Q /120Q)		
	Both Lens for Observe&Measure			All Three Lens for Observe&Measure		
Eyepiece	10X Digital Eyepiece with Built-in Encoder(15X Optional)					
Measuring Magnification	100X/200X (uVicky-5/ 10/ 30/ 50/ 100/ 120)			100X/200X/400X(u-Vicky5Q/10Q/30Q/50Q/100Q/120Q)		
Customized Magnification	Yes	Yes	Yes	Yes	Yes	Yes
Test Force	0.3Kgf 0.5Kgf 1.0Kgf 2.0Kgf 2.5Kgf 3.0Kgf 5.0Kgf	0.3Kgf 0.5 Kgf 1.0 Kgf 2.0 Kgf 2.5 Kgf 3.0 Kgf 5.0Kgf 10.0Kgf	0.5 Kgf 1.0 Kgf 2.0 Kgf 2.5 Kgf 3.0 Kgf 5.0Kgf 10.0Kgf 15.0kgf 20.0Kgf 30.0Kgf	1.0 Kgf 2.0 Kgf 2.5 Kgf 3.0 Kgf 5.0 Kgf 10.0Kgf 15.0 Kgf 20.0Kgf 30.0Kgf 40.0Kgf 50.0Kgf	2.0Kgf 3.0Kgf 5.0Kgf 10.0Kgf 20.0Kgf 30.0Kgf 50.0Kgf 60.0Kgf 80.0Kgf 100.0Kgf	2.0Kgf 3.0Kgf 5.0Kgf 10.0Kgf 20.0Kgf 30.0Kgf 50.0Kgf 60.0Kgf 100.0Kgf 120.0Kgf




Technical Specification

Customized Test Force	Yes	Yes	Yes	Yes	Yes	Yes
Test Force Standard	GB/T4340.1, GB/T4340.2, ASTM E92					
Closed Loop System	Yes	Yes	Yes	Yes	Yes	Yes
Minimum Unit of Test	0.01 μm					
Precision Standard	JJG260-91, JISB7725, JISB7734, GB/T3430. 2-99, ASTM E-384, ISO6507-2, ISO4546					
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T					
Conversion Standard	GB1172-99, ASTM					
Turret	Auto	Auto	Auto	Auto	Auto	Auto



Technical Specification

Hardness Test Range	8~2900HV
Loading Method	Automatic Loading-Dwelling-Unloading
Dwelling Time	1~99s
Test Space	Test Height:180mm, Test Throat: 160mm
Data Output	8" Touch Screen, Built-in Printer, RS232 Interface, Saved to U-disk in Excel Format (Measuring Software Optional)
Weight&Dimension	Machine Net Weight : 55Kg , Machine Dimension:580x190x700mm
	Package Gross Weight:78Kg, Package Dimension: 800*470*800mm
Power Supply	AC220V ± 5%, 50 to 60 HZ(110V is Available)

Standard Delivery

Name	Qty	Photo
10X Eyepiece	1 pc	/
Vickers Hardness Block	2 pcs	
U Disk	1 pc	
Power Cable	1 pc	/
Hexagon Socket Wrench (2.5mm)	1 pc	/
Product Certificate	1 pc	
Warranty Card	1 pc	

Standard Delivery

Name	Qty	Photo
Large, Medium Flat Test Anvil	each 1	
V-shaped Test Anvil	1 pc	
Spare Fuse (2A)	2 pcs	/
Dust Cover	1 pc	/
Touch Pen	1 pc	
Adjust Feet Screw	4 pcs	/
Instruction Manual	1 pc	