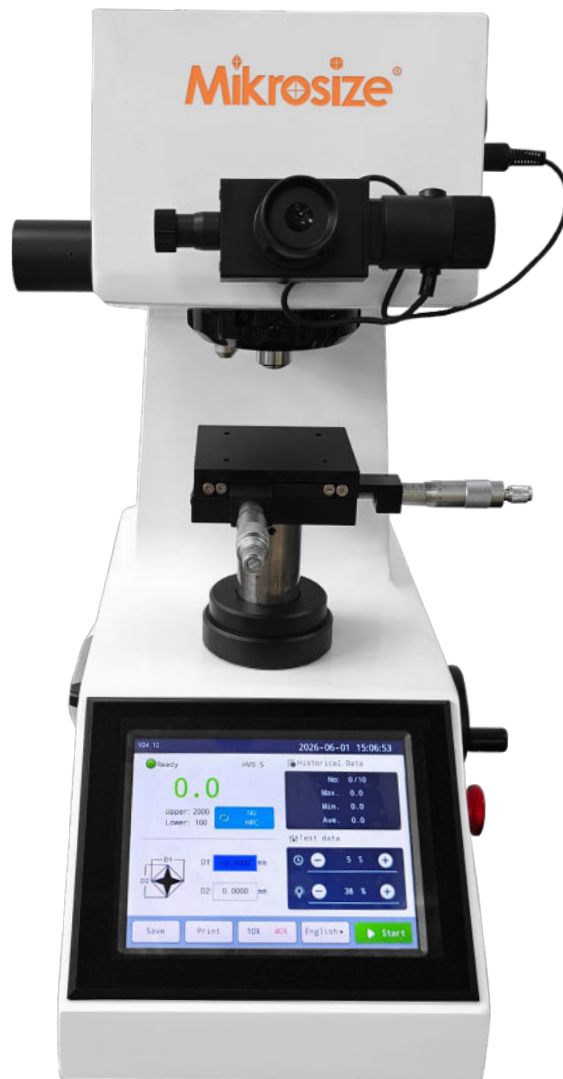




# iVicky-1000

## Digital Automatic Turret Micro Hardness Tester



### Contact us

**Mikrosize Precision Instrument Co.,Ltd**

A-4035 RuiFeng Business Expo, Wuhu City, China , 241000.

Web: [www.mikrosize.com](http://www.mikrosize.com)

Email: [mikrosize@mikrosize.com](mailto:mikrosize@mikrosize.com)



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## Feature and Application

### Product Feature

- Equipped with an 8-inch color LCD touch screen for easy operation.
- 8 levels of test force: 0.01kgf, 0.025kgf, 0.05kgf, 0.1 kgf, 0.2 kgf, 0.3 kgf, 0.5 kgf, 1 kgf.
- Weight loading design ensures high accuracy of test force.
- Automatic loading and unloading of test force.
- Supports two hardness testing modes: Micro Vickers and Knoop (Knoop indenter is optional).
- Built-in hardness conversion function.
- External halogen light source with adjustable brightness, mounted on the left side of the unit.
- Adopts 10X micrometer eyepiece, matched with 10X and 40X objectives; total magnification: 100X and 400X.
- Test results are displayed directly after indentation dimension measurement.
- 3-position automatic turret fitted with 1 Micro Vickers diamond indenter and 2 objectives (10X & 40X).
- Equipped with XY stage fitted with micrometer; stage size: 100×100mm, travel range: 25×25mm, resolution: 0.01mm.
- Worm gear drive for lifting rod ensures stable and smooth lifting movement.
- Built-in energy-saving mode; light source turns off automatically after 10 minutes of inactivity
- Integrated thermal printer for fast data printout.
- Compliant with standards: GB/T 4340, ISO 6507, ASTM E384, etc.

### Product Application

- Applicable to hardness testing of various metallic materials (steel, aluminum alloy, copper alloy, etc.) and non-metallic materials (ceramics, glass, rubber, etc.). Evaluate machinability and service performance by analyzing material hardness characteristics.
- Manufacturing & Processing Industry.
- Used for hardness inspection of workpieces to guarantee product quality compliance with standards.
- Applied to research on material mechanical properties, including measurement of mechanical parameters such as elastic modulus and Poisson's ratio.



## Product Structure



**1. Force Adjustment Handwheel**

**4. XY Test Stage**

**7. Emergency Stop Button**

**2. Micrometer Eyepiece**

**5. Lifting Rod**

**8. Screen**

**3. Automatic Turret**

**6. Focusing Handwheel**

## Product Structure



**1.Light Source**  
**5.USB Port**

**2.Printer**  
**6.RS232 Port**

**3.Power Switch**

**4.Power Socket**

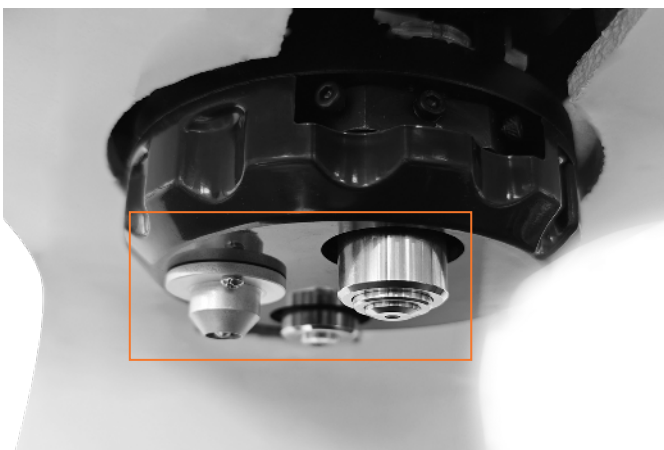
## Product Details



- Halogen light source with high brightness and adjustable luminous intensity



- 10X micrometer eyepiece; indentation dimensions are measured via left and right adjusting knobs.

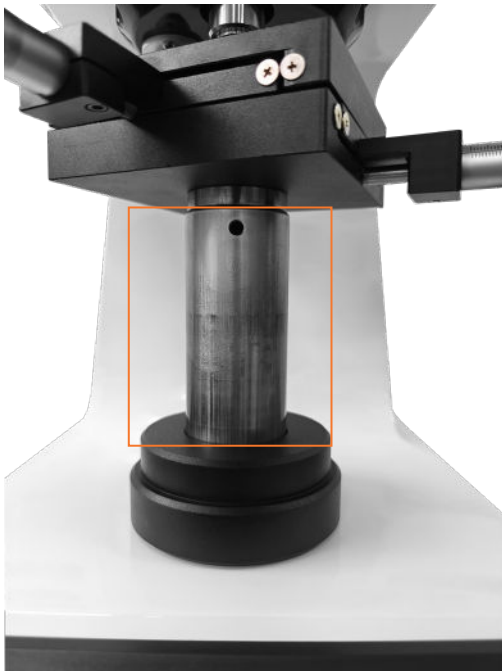


- 3-position automatic turret for automatic switching between indenter and objectives.
- Fitted with 1 Micro Vickers diamond indenter and 2 objectives (10X & 40X).

## Product Details

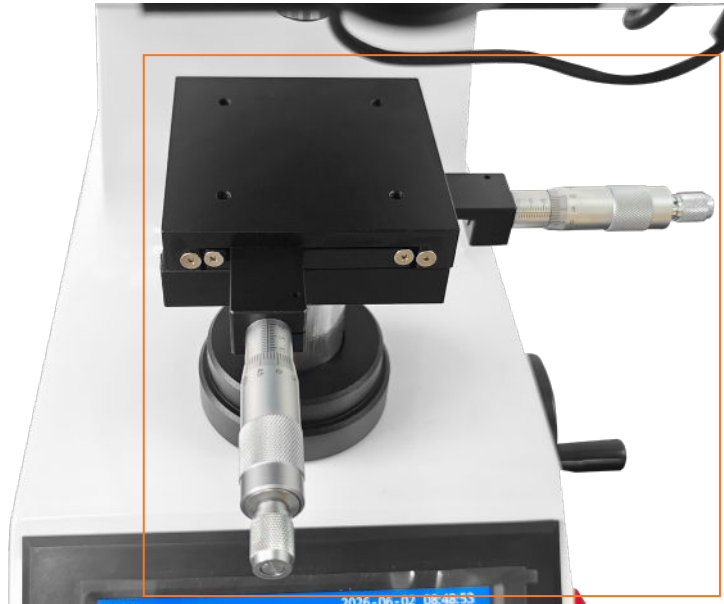


- Weight loading system; test force is adjusted by rotating the force adjustment handwheel
- 8 levels of test force: 0.01kgf, 0.025kgf, 0.05kgf, 0.1 kgf, 0.2 kgf, 0.3 kgf, 0.5 kgf, 1 kgf
- Corresponding Vickers scales: HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1



- Worm gear drive for lifting rod delivers stable movement, controlled by the focusing hand-wheel on the right side.
- Max. specimen height: 110mm.
- Throat depth: 110mm.

## Product Details



- XY test stage equipped with micrometer, resolution: 0.01mm
- Stage size:100×100mm;Travel range: 25×25mm



- Integrated thermal printer for convenient and rapid test data output.



## Screen Interface

### Main Interface



**1.Test Force**

**2.Date & Time**

**3.Historical Data**

**4.Data Statistics**

**5.Test Data**

**6.Dwell Time**

**7.Brightness Adjustment**

**8.Start**

**9.Language**

**10.Objective Selection**

**11.Print**

**12.Save**

**13.Indentation Measured Dimension**

**14.Conversion Scale**

**15.Upper & Lower Limit**

**16.Hardness Value**



## Screen Interface

### Conversion Scale



- Supports conversion of 16 hardness scales  
HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T.

## Screen Interface

### Historical Data

V24.12. 2026-06-01 15:08:58

Time: 2026/05/29 18:06:00

Test method: HV0.01

Hold time: 1 S

Max. 442.4

Min. 336.6

Ave. 413.72

Test data list:

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 373.5 | 435.5 | 424.4 | 426.2 | 429.0 |
| 425.3 | 429.1 | 415.2 | 442.4 | 336.6 |

Up

Del

Print

Down

Export

Return

Save Print 10X 40X English Start

- Enables viewing historical records including test date & time, selected test force, dwell time, maximum value, minimum value, average value and individual test results.
- Data can be printed out or exported to USB flash drive and computer.



## Screen Interface

### Language

V24.12. 2026-06-01 15:09:22

Ready HV0.5 Historical Data

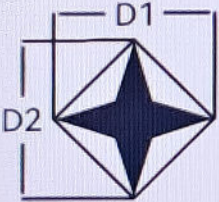
0.0

Upper: 2000 Lower: 100 NG HRC

Historical Data

|      |      |
|------|------|
| No:  | 0/10 |
| Max. | 0.0  |
| Min. | 0.0  |
| Ave. | 0.0  |

Test data


D1: -0.0000 mm  
D2: 0.0000 mm



Save Print 10X 40X English Start

- 5 languages available.
- Chinese, English, Russian, Turkish, French.

# Technical Specification

|                                           |           |                                                                   |
|-------------------------------------------|-----------|-------------------------------------------------------------------|
| <b>Name</b>                               |           | Digital Automatic Turret Micro Hardness Tester                    |
| <b>Model</b>                              |           | iVicky-1000                                                       |
| <b>Test Force</b>                         | <b>gf</b> | 10gf;25 gf;50 gf;100 gf;200 gf;300 gf;500 gf;1000 gf              |
|                                           | <b>N</b>  | 0.098N; 0.246 N; 0.49 N; 0.98 N; 1.96 N; 2.94 N; 4.90 N; 9.80 N   |
| <b>Hardness Testing Range</b>             |           | 5HV~3000HV                                                        |
| <b>Hardness Value Resolution</b>          |           | 0.1HV                                                             |
| <b>Testing Mode</b>                       |           | HV/HK                                                             |
| <b>Test Force Application</b>             |           | Automatic (Loading / Dwell / Unloading)                           |
| <b>Objective &amp; Indenter Switching</b> |           | Automatic switching                                               |
| <b>Conversion Scales</b>                  |           | HRA、HRB、HRC、HRD、HRF、HV、HK、HBW、HR15N、HR30N、HR45N、HR15T、HR30T、HR45T |
| <b>Objectives</b>                         |           | 10X (for observation), 40X (for measurement)                      |

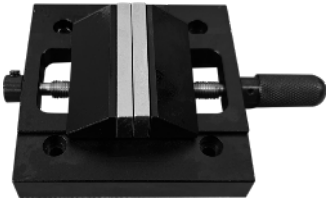
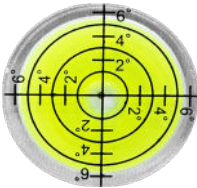
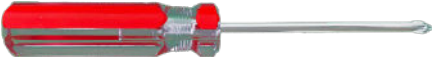
# Technical Specification

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| <b>Eyepiece</b>            | 10X Digital Micrometer Eyepiece                            |
| <b>Total Magnification</b> | 100X;400X                                                  |
| <b>Dwell Time</b>          | 1~60s                                                      |
| <b>Data Output</b>         | LCD display reading, built-in printer                      |
| <b>Light Source</b>        | Halogen Lamp                                               |
| <b>XY Test Stage</b>       | Size 100×100mm; Travel range 25×25mm;<br>Resolution 0.01mm |
| <b>Test Height</b>         | 110mm                                                      |
| <b>Test Throat</b>         | 110mm                                                      |
| <b>Power Supply</b>        | AC220V , 50Hz                                              |
| <b>Overall Dimension</b>   | 405*290*480mm                                              |
| <b>Net Weight</b>          | 40kg                                                       |

## Standard Delivery

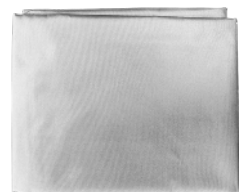
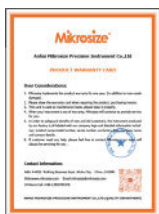
| Name                            | Qty    | Photo                                                                                 |
|---------------------------------|--------|---------------------------------------------------------------------------------------|
| Mainframe                       | 1pc    |    |
| Micro Vickers Indenter          | 1pc    |    |
| 10X & 40X Objectives            | 1 each |  |
| 10X Digital Micrometer Eyepiece | 1pc    |  |
| Weights                         | 6pcs   |  |
| Weight Rod                      | 1pc    |  |

## Standard Delivery

| Name                      | Qty  | Photo                                                                                 |
|---------------------------|------|---------------------------------------------------------------------------------------|
| XY Test Stage             | 1pc  |    |
| Flat Jaw Clamp Stage      | 1pc  |    |
| Thin Specimen Clamp Stage | 1pc  |   |
| Thin Wire Clamp Stage     | 1pc  |  |
| Level Gauge               | 1pc  |  |
| Screwdriver               | 1pc  |  |
| Level Adjustment Screws   | 4pcs |  |



## Standard Delivery

| Name                                               | Qty    | Photo                                                                                 |
|----------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| HV0.2 & HV1 Standard Micro Vickers Hardness Blocks | 1 each |    |
| Power Cord                                         | 1pc    |    |
| Fuse                                               | 2pcs   |   |
| Dust Cover                                         | 1pc    |  |
| Operation Manual                                   | 1copy  |  |
| Certificate of Conformity                          | 1copy  |  |
| Warranty Card                                      | 1copy  |  |

## Optional Delivery

### Optional

Micro Vickers Indenter

Knoop Indenter

Standard Micro Vickers Hardness Block

Standard Knoop Hardness Block

### Mikrosize Precision Instrument Co.,Ltd

Add: A-4035 RuiFeng Business Expo , Wuhu City, China , 241000.

Tel: 0553-2836939 Fax:0553-2836938 Web: [www.mikrosize.com](http://www.mikrosize.com)

