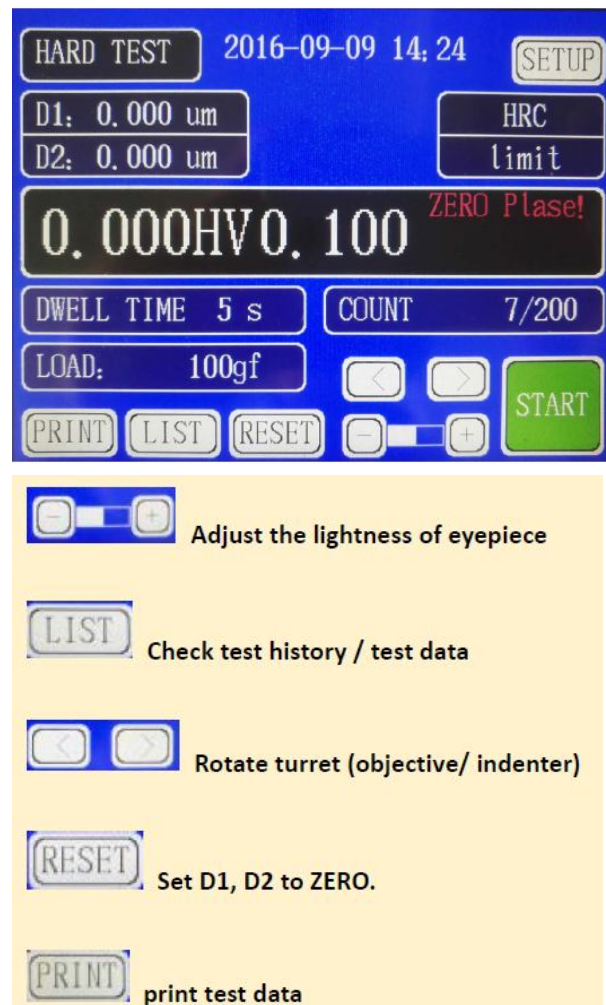


Touch Screen Digital Micro Vickers Hardness Tester

High-end digital display touch screen micro hardness tester adopts color industry LCD, high-end appearance, menu structure, one key operation, more imported components to ensure equipment running more stable, test result is more accurate, powerful data measurement control system provide comprehensive data for quality control, the machine design is advanced, comprehensive functions, is the ideal choice for high requirement client.



Main Interface

Main functions and features:

1. Humanized operation interface, can adjust angle according to customer's habit, meet the demand of different situations.
2. Equipped with digital Omron eyepiece and Data computing systems which accuracy can reach to 0.01um; Just click one button the hardness value will display on screen directly.
3. Main components adopted American 3M, Allegro, and Japanese Omron, NKK brand, ensure the instrument can stable working for a very long time.
4. 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;
5. The optical system designed by our senior optical engineer not only meet the definition of hardness testing requirements, but also can observe the micro structure of the material, image is very clear.
6. According to different visual habits of the operators, the strength of the light source can be adjusted. To avoid the visual fatigue for long time operation.
7. With Vickers hardness and Knoop hardness testing capabilities, and testing force can be extended to 2KG (HV2). Automatic measuring the indentation diagonal length, the hardness and conversion hardness will show on the screen directly, make quality control more easily.
8. 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.
9. Can store 300 groups of test data, all the testing data can be transferred to computer via RS232 port, then can edit and save the data on computer.
10. One-time casting aluminum molding shell ensure structure more stable; Adopted car painting technology, pure white color looking more decent; High scratch resistance capability, used for years still brightness like new.
11. Factory directly supply, we have products develop & design & produce ability, all the parts provide life-time replacement and maintenance service.

Main Purpose and Application:

1. Steel, nonferrous metals, tinsel, cemented carbide, sheet metal, metallographic structure.
2. Carburization, nitriding and decarburization layer, surface hardening layer, galvanized coating, coating.
3. Glass, chip and ceramic material.

Specifications:

Model	EI-MVD1000AT
Testing Force	10gf(0.098N), 25gf(0.245N), 50gf(0.49N), 100gf(0.98N), 200gf(1.96N), 300gf(2.94N), 500gf(4.9N), 1000gf(9.8N)
Test force error	±1.0%
Hardness Scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV05, HV1, HV2
Conversion scale	HRA, HRB, HRC, HRD, HK, HBS, H15N, H30N, H45N, H15T, H30T, H45T
Loading speed	≤50μm/sec
Indenter	Standard Rectangular pyramid diamond indenter (136°±0.5°)
Min. Measuring Unit	0.01 μm
Hardness Value Rang	1HV ~ 4000HV
Hardness Value of Reading	Digital LCD Screen (118x99mm)
LCD Screen Size	8 inch
Total Magnification	100X (For Observation), 400X (For Measurement) (Can be extended to 150X or 600X)
Loading Method	Automatically (Load, dwell and unload)
Duration Time	1-99s (each step is 1 second)
Turret	Auto Turret (High degree of automation, improve work efficiency)
Objective lens center and indenter center	Coincidence accuracy error < 1um (objective lens center position can be adjusted)
Maximum Height	85mm
Throat depth	115mm
Instrument size and Net weight	490 (L) × 185 (W) × 515 (H) mm
Weight	Approx. 43kg
Light Source	LED Cold light source (can be continuous use for 24 hours, no heat generate ensure stable working, servicing life can reach 100,000 hours)
Power Supply	220VAC + 5%, 50Hz

ECO INSTRUMENT (NS0081046-M)

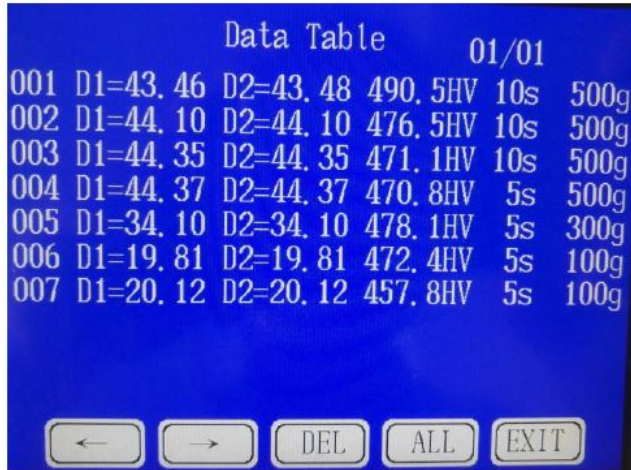
X-Y Testing Table	Dimension: 100 × 100 mm Maximum Travel Range: 25 × 25mm Moving Resolution Ratio: 0.01mm (Digital X-Y Testing Table with digital LCD Screen for Optional)
Data Output	Built-in Printer; Built-in RS-232 interface (transfer data to computer, easy for long time save)
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507, JIS B-7734
Standard Accessories	1 piece: Main Unit 10x Omron Digital Micrometer Eyepiece 10x and 40x objective lens Vickers Indenter X-Y Testing Table Flat Fixture Sheet Specimen Fixture Small Parts Fixture Gradienter Data Transfer software Data Line Power Cable Instruction Manual Book Certificate of Quality Accessory case 2 pieces: Standard Hardness Block 4 pieces: Horizontal Adjusting Screw
Optional Purchase Accessories	Hardness Measuring Software Metallographic device Knoop Indenter Knoop Hardness Block 15x Micrometer Eyepiece.

ECO INSTRUMENT (NS0081046-M)

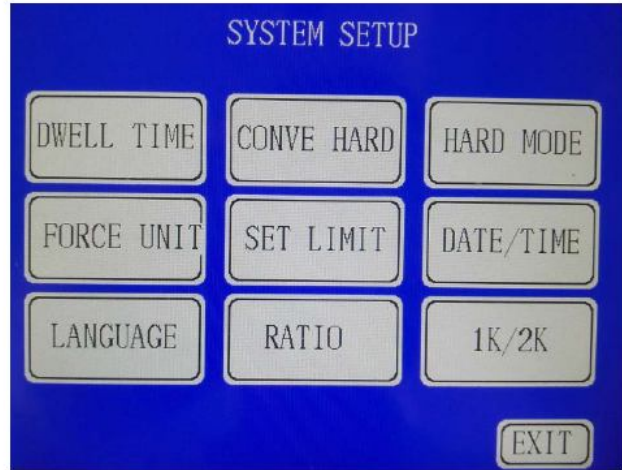
It can display D1, D2 data, hardness value, hardness scale, test force, conversion hardness, dwell time, test force (load), test number (support 200 groups memory), date and time, etc.

Operator can adjust the lightness of light source based on their habit, ensure operator feel more cozy during test, and avoid eye fatigue.

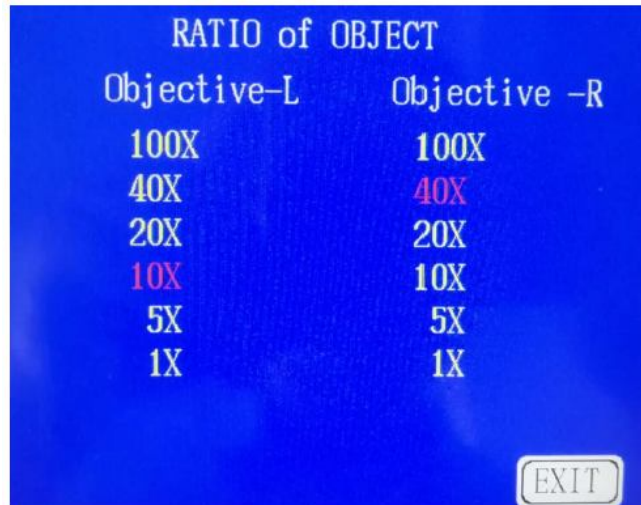
Operator can check the test data through 'LIST' menu, the data including test number, D1, D2, hardness value, hardness scale, dwell time, test force. More easy for operator to check the test history.



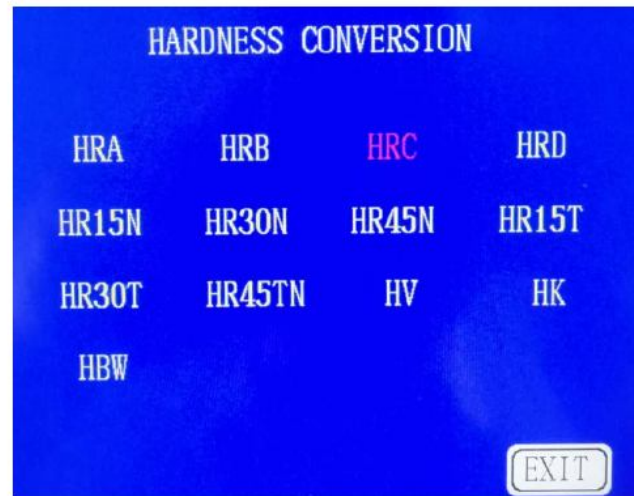
'LIST' Sub-menu



'SETUP' Sub-menu



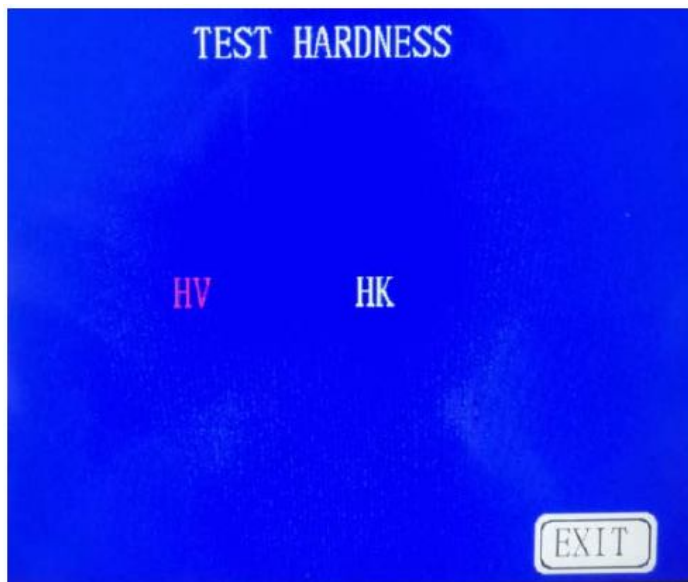
'Ratio' Sub-menu



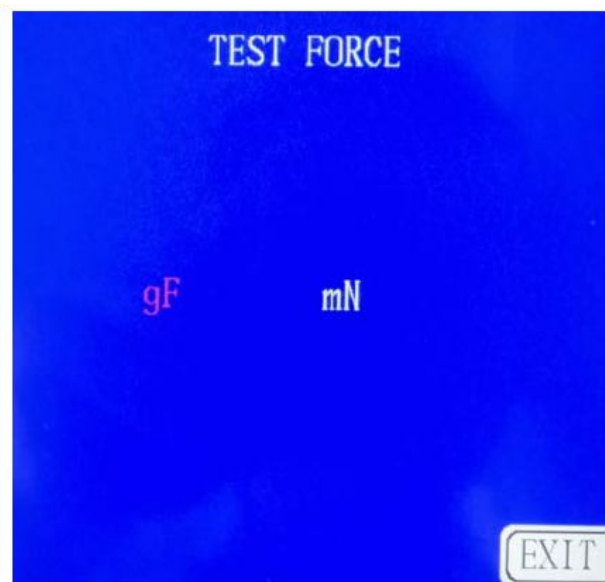
'CONVE HARD' sub-menu

For some testing need magnification 400X, 200X, or 300X, etc. For standard Micro hardness tester, you have to edit circuit board if you change objective lens. But for our touch screen Micro hardness tester EI-MVD1000AT all these problems were solved. After changed objective lens, then choose the magnification data correspondingly, then the machine will working normally.

And our EI-MVD1000AT support hardness conversion function, HV convert to HRA, HRB, HRC, HRD, HK, HBW, HR15N, etc.



‘HARD MODE’ Sub-menu

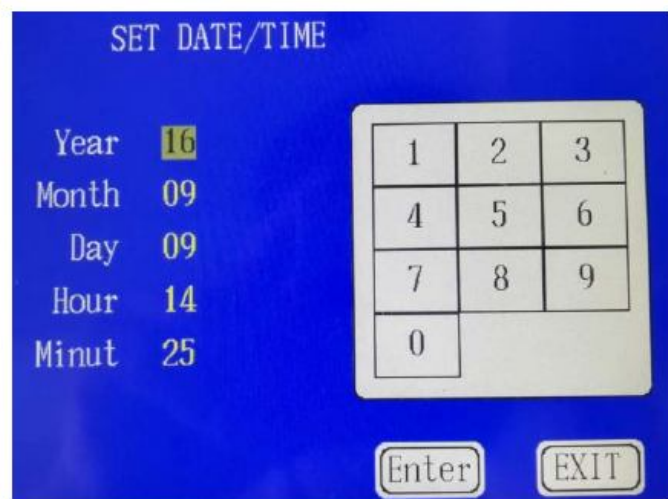


‘FORCE UNIT’ Sub-menu

EI-MVD1000AT support HK (Knoop) hardness testing, you have to buy additional parts: Knoop diamond indenter and Knoop hardness block. And can choose force unit based on your habit.



‘SET LIMIT’ Sub-menu



‘DATE/TIME’ Sub-menu

For protect indenter and machine, EI-MVD1000AT can set Max-Min limit; And date/time can be edit.

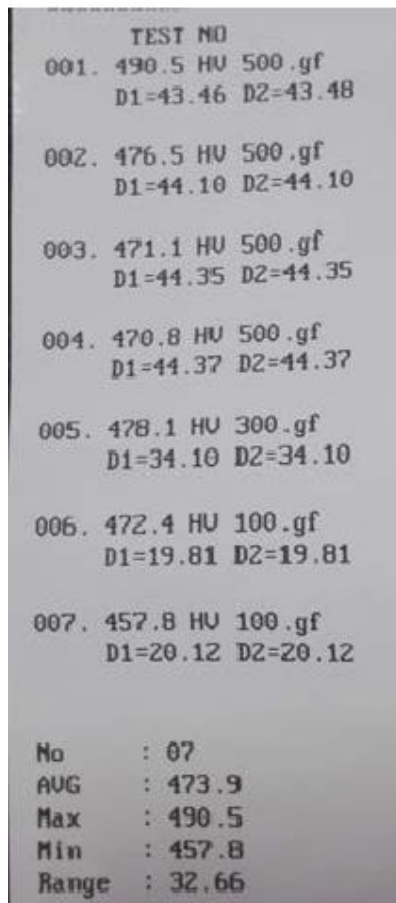


‘LANGUAGE’ Sub-menu



‘1K/2K’ Sub0menu

Support Chinese & English language; Maximum test force can be extend to 2kgf.



Press ‘PRINT’ menu on main screen interface, the built-in printer will print all test data directly.

Including hardness value, hardness scale, test force, D1, D2, test number, max-min value and average value, etc.