

# iLeeb-150

## Pen Type Leeb Hardness Tester



Video



## 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)



## Features and Applications

### Product Features

- Intelligent and user-friendly, compact and portable, with an integrated design devoid of connecting cables, enhancing reliability;
- Industrial-grade high-brightness OLED display, visible even under direct sunlight, suitable for various lighting conditions;
- High-precision measurement circuit ensuring an indication error of  $\pm 0.5\%$  (HLD=800) and indication repeatability of 0.8%;
- Supports multiple hardness scales: HL, HV, HRC,HRB, HB, HS;
- Capable of storing 270 sets of hardness measurement data,each set including average value and hardness scale;
- USB charging, compatible with most digital product interfaces such as smartphones;
- When testing "forged steel" samples with a D-type impact device, the HB value can be directly read without manual table lookup;
- Pre-set upper and lower hardness limits with automatic alarms when out of range, facilitating users' batch testing needs.

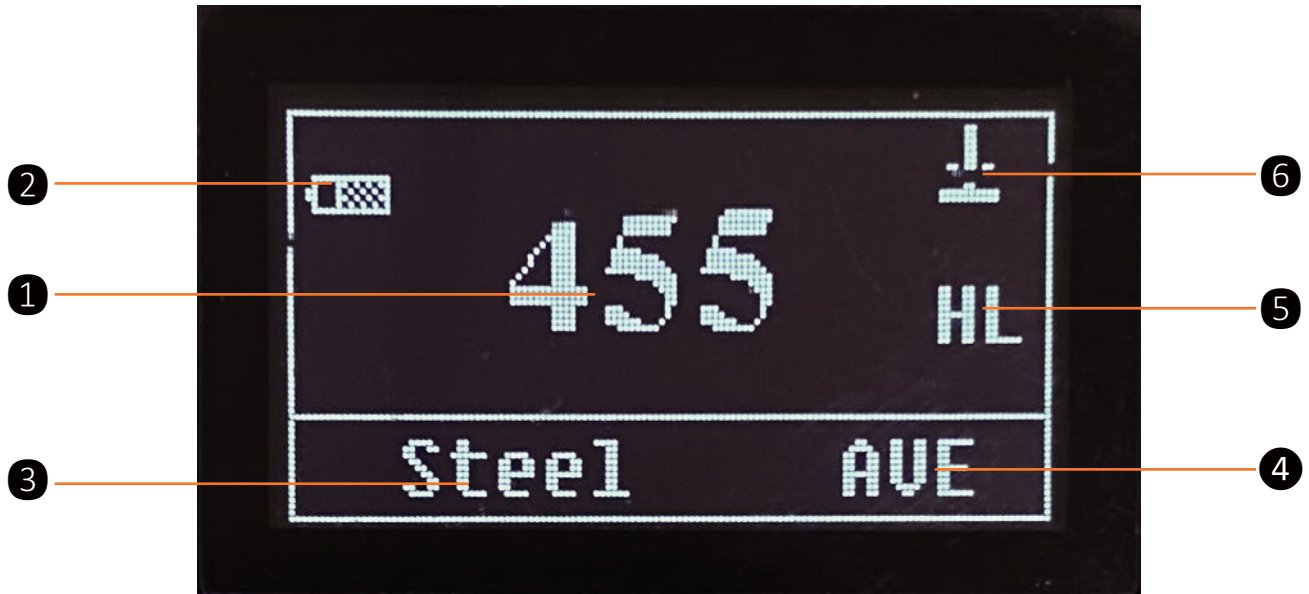


### Product Applications

- Mold cavities, heavy workpieces, large bearings, and other parts.
- Failure analysis of pressure vessels, turbine generator sets, and their equipment.
- Installed machinery or permanently assembled components, workpieces with limited testing space.
- Requirements for formal original records of test results.
- Rapid inspection of multiple measurement points within a large range on large workpieces.



## Instrument Appearance



**1.Measurement Value**  
**4.Average Value**

**2.Battery Level**  
**5.Hardness Scale**

**3.Impact Material**  
**6.Impact Direction**



**1. Menu**

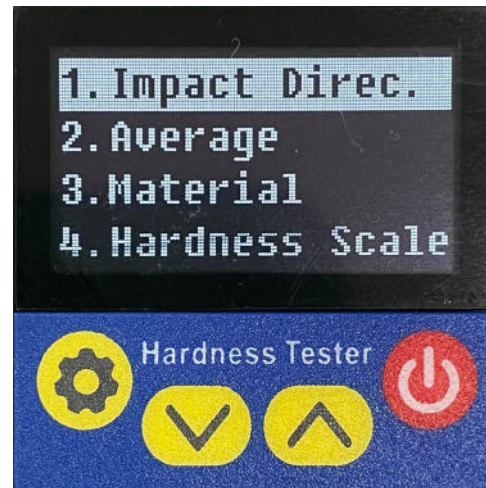
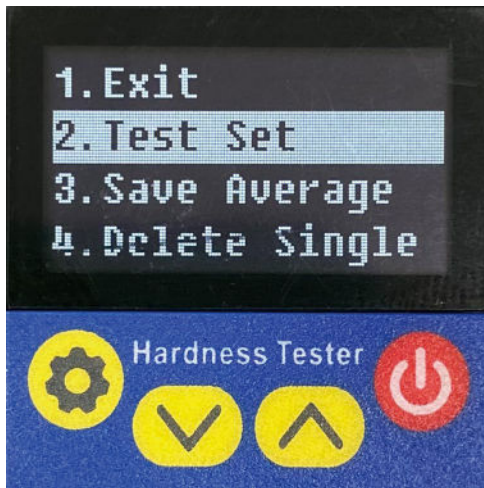
**2. Down**

**3. Up**

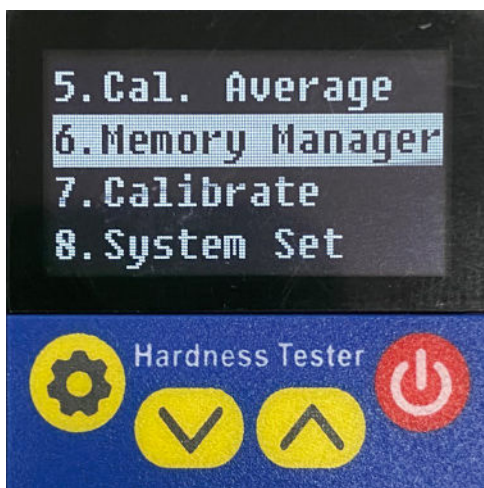
**4. Power Switch**

## Operation Interface

### Setting Interface



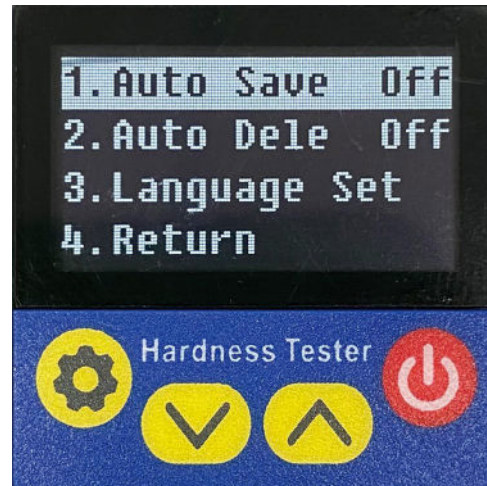
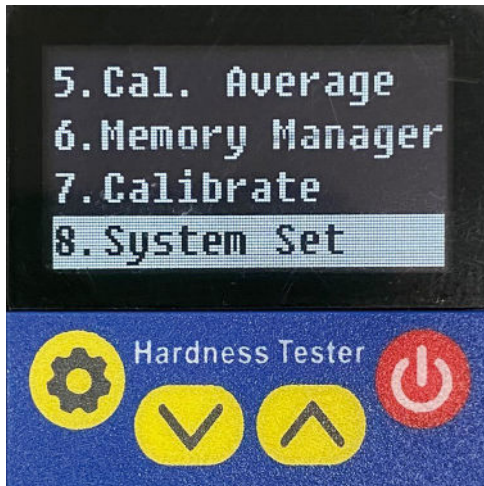
- Measurement Settings: On this interface, users can set the instrument's impact direction, average number of impacts, impact material, hardness scale, and upper and lower tolerance limits.



- Memory Settings: On this interface, users can select to browse files, delete files, and select storage files.

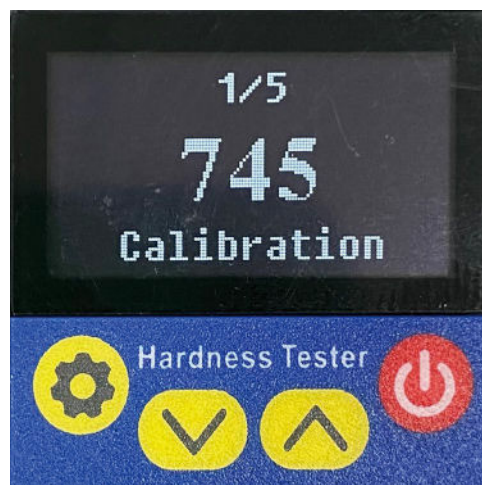
## Operation Interface

### Setting Interface



- Instrument Settings: On this interface, users can set the instrument's automatic storage function, eliminate gross errors, and choose the language.

### Instrument Calibration










- When the measurement error is relatively large, users can calibrate this instrument using a standard leeb hardness block. Measure five points on the standard Leeb hardness block to obtain an average value, and users can adjust according to the hardness block value.

# Technical Specification

<b>Measuring Range</b>	(170-960) HLD, (17.9-69.5) HRC, (19-683) HB, (80-1042) HV, (30.6- 102.6) HS, (59.1-88) HRA, (13.5-101.7) HRB
<b>Measuring Directions</b>	Testing Direction: 360 Vertical, Tilt down, Level, Slope, Vertical up
<b>Hardness Scale</b>	HL, HB, HRB, HRC, HV, HS
<b>Display Resolution</b>	±0.5% (HLD = 800)
<b>Repeatability of Indication</b>	0.8% (HLD = 800)
<b>Impact Device: D/DL</b>	Impact energy: 11mJ    Impact mass: 5.5g/7.2g
<b>Indication Error</b>	±0.5%
<b>Display</b>	Industrial grade 128 × 64 graphic dot matrix OLED liquid crystal
<b>Power Supply</b>	Rechargeable Li battery
<b>Working Time</b>	20 hours
<b>Dimensions</b>	148mm × 30mm × 30mm

## Standard Delivery

Name	Qty	Photo
Main unit	1 pc	
Standard test block	1 pc	
Cleaning brush	1 pc	
Small support ring	1 pc	
Battery charger	1 pc	
Manual	1 copy	
Communication cable	1 copy	
Instrument box	1 pc	