Mikrosize®

iLeeb-300

Color Screen Leeb Hardness Tester

Video

Contact us

Mikrosize Precision Instrument Co.,Ltd
A-4035 RuiFeng Business Expo, Wuhu City, China , 241000.
Web:www.mikrosize.com
Email: mikrosize@mikrosize.com

Mikrosize®

Features and Applications

Product Features

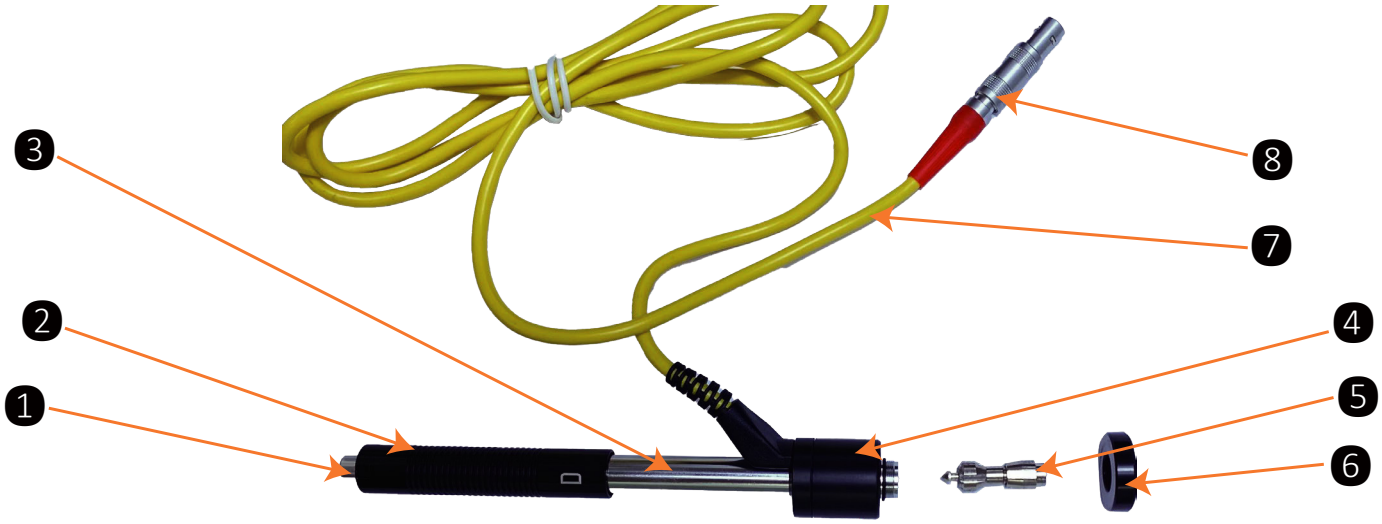
- The probe is automatically recognized, plug and play (other manufacturers need to plug in the probe before turning on the machine).
- The high-performance ARM processor with Cortex-M4 core is used as the main control chip, and the processing speed is fast.
- Unique full-scale display， all scales can be displayed on the main interface at a glance without looking up the table or switching.
- The Leeb hardness impact waveform display can judge the validity of the test and the working state of the impact device,such as whether the probe is worn or not, and whether there is dirt in the casing.
- It can store up to 100 groups of hardness measurement data(impact times 32 ~ 1). Each group of data includes single measurement value, average value, impact direction, times, material,hardness system and other information
- It has USB communication interface and is equipped with upper computer data processing software as standard.
- It has the function of Bluetooth printing， and theBluetooth printer can be optionally equipped.
- According to the principle of Leeb hardness measurement, a variety of metal materials can be tested.
- The power supply adopts 2 AA ordinary alkaline batteries,which can work continuously for no less than 50 hours; it has power-saving functions such as automatic sleep and automatic shutdown.
- The instrument is compact, portable and highly reliable. It is suitable for harsh operating environment and is resistant to vibration, shock and electromagnetic interference.

Product Applications

- Mold cavities.
- Bearings and other components.
- Failure analysis of pressure vessels, steam turbine generator sets, and their equipment.
- Heavy workpieces.
- Installed machinery or permanently assembled components.
- Workpieces with very limited testing space.
- Requirement for formal original records of test results.
- Material differentiation in metal material warehouses.
- Rapid inspection of multiple measurement points within a large range of large workpieces.

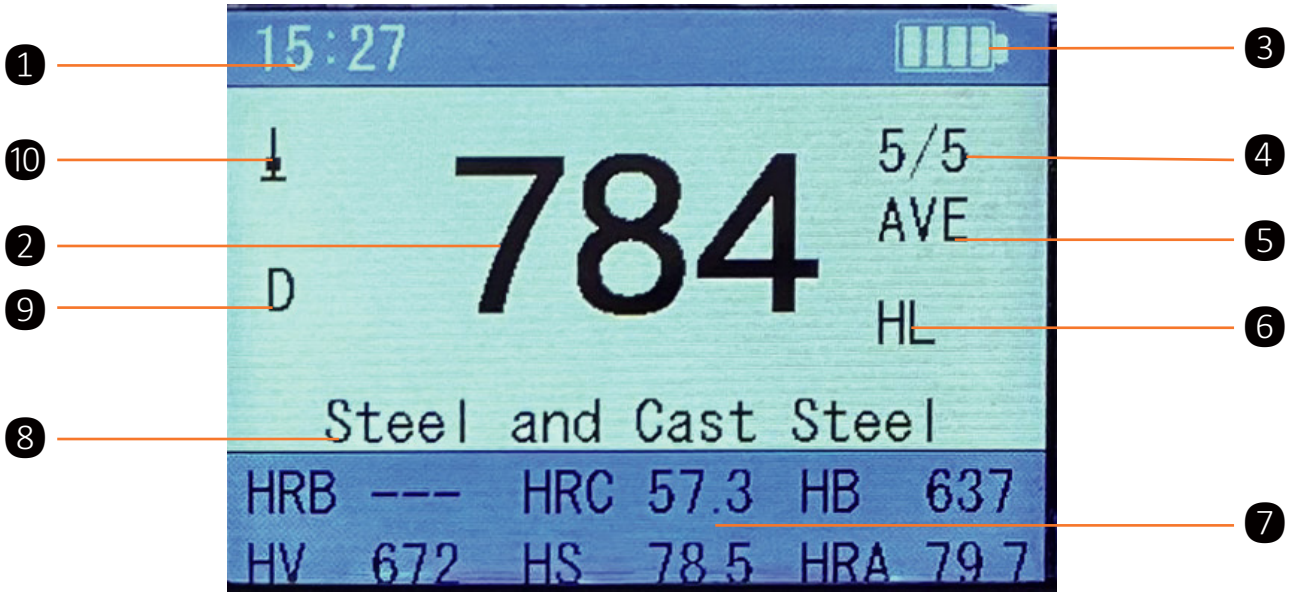
Instrument Appearance

1.Impact Device Connector **2.Lcd Color Screen** **3.Impact Device**
4.Buttons **5.Main Unit Housing**



1.Release Button **2. Loading Sleeve** **3. Conduit** **4. Coil Component**
5.Impactor **6. Supporting Ring** **7. Conducting Wire** **8. connector**

Interface Display

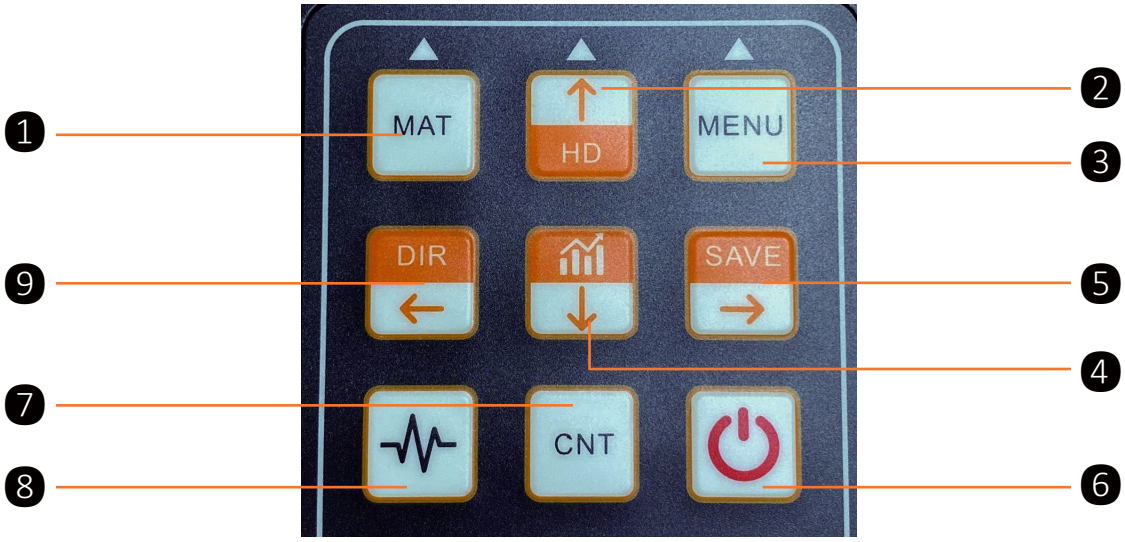


1.Time Display **2.Measurement Value** **3.Battery Level Display**
4.Measurement Count **5.Average Symbol** **6.Time Display**
7.Measurement Value **8.Battery Level Display** **9.Measurement Count**
10.Average Symbol

- Tested Material: Currently set material
- Impact Direction: Current impact direction
- Hardness Scale: Hardness scale of the current measurement value
- Average Symbol: Current single measurement value (no average indication), current average value.
- (with average indication); displays "-HI-" indicating above the conversion or measurement range,"-LO-" indicating below the conversion or measurement range.

Interface Display

Button Function



1.Material Selection Key **2.Up Arrow Key / Hardness Scale Selection Key**
3.Menu Key **4.Data Statistics Function Key / Down Arrow Key**
5.Data Storage Key / Right Arrow Key **6.Power On/Off Key**
7.Average Times Setting Key **8.Waveform View Key** **9.Left Arrow Key**

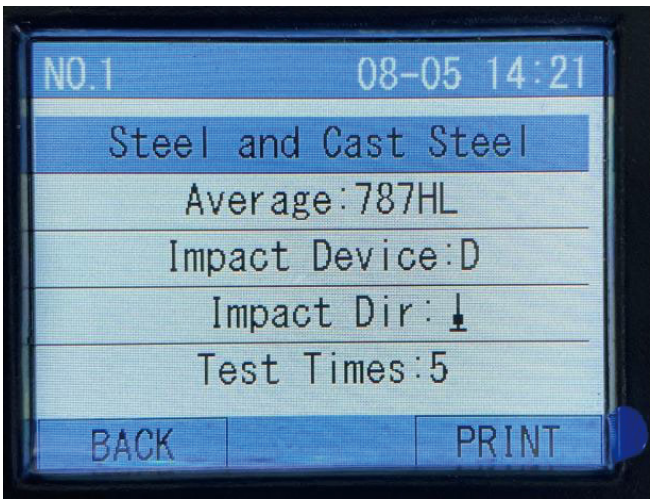
- The instrument has a fast measurement speed and can quickly display the measurement results. It also has high sensitivity and an accuracy of up to 1/10000mm.

Operation Interface

Test Set

- In this settings section, users can configure the impact device settings, material settings, number of tests settings, limit settings, and hardness/strength settings.

Memory Manager



- Users can view detailed test results and select to print them. The detailed test results include the selected material, average value, impact device, impact direction, number of tests, standard deviation, maximum value, minimum value, and the value of each individual measurement.

Operation Interface

System Set

- In this setting, users can enable or disable the automatic storage function, adjust key sounds, toggle the alert switch, adjust the LCD brightness, set the auto-off timer (with options of 2, 5, 10 minutes, or never), configure time settings, and select language preferences.

Operation Interface

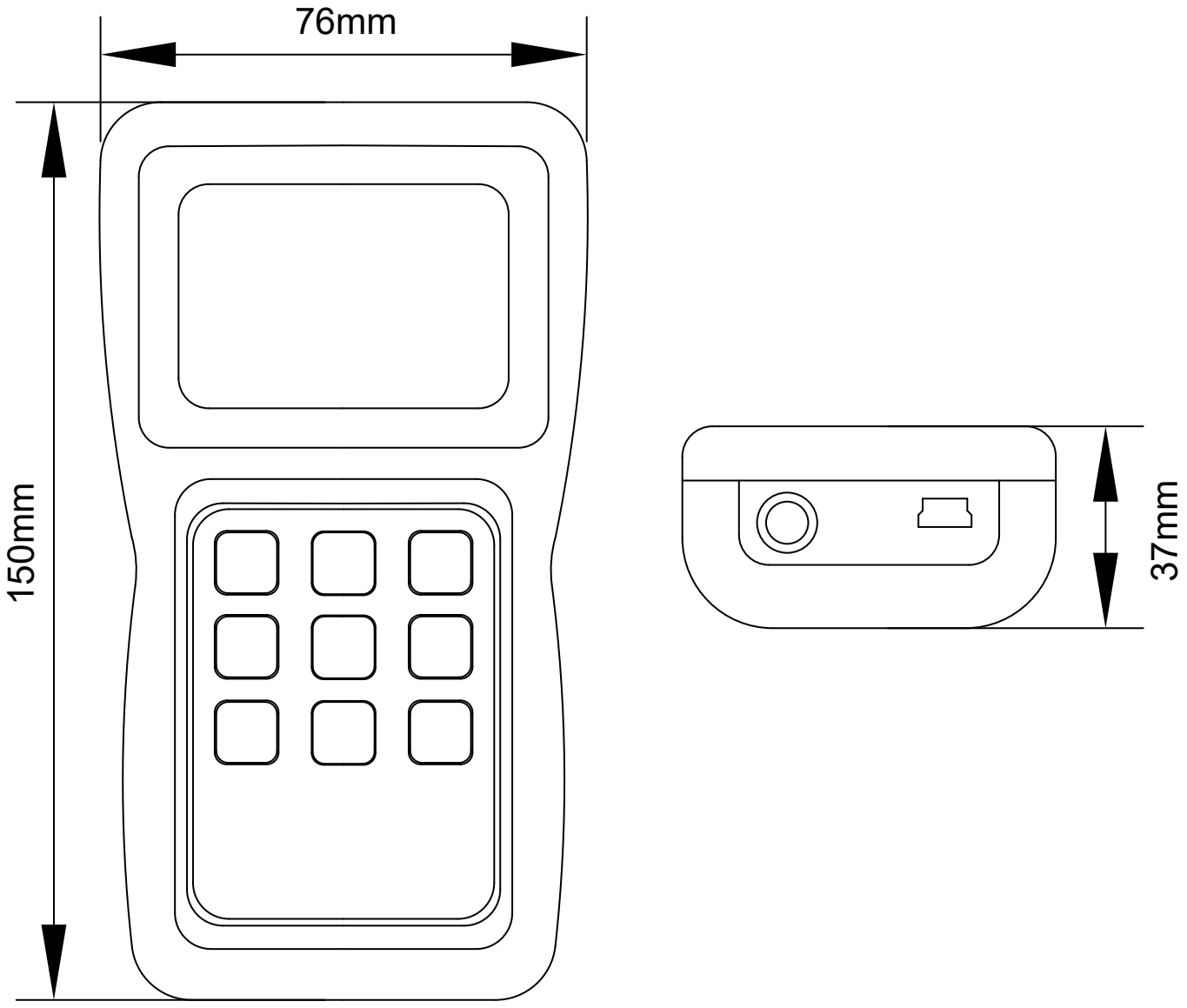
BlueTooth Set

- In this setting interface, users can select "Pairing Code" and "Device Selection"; users have the option to set their own 4-digit pairing code.

Product Info

- Users can view the device name, version number, release date, and serial number on this interface.

Instrument Dimension



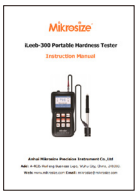
Technical Specification

Measurement Range	HLD (170 ~ 960)
Measurement Direction	Support vertical downward, oblique downward, horizontal, oblique upward and vertical upward
Hardness Scales	Richter (HL), Brinell (HB), Rockwell B (HRB), Rockwell C (HRC),Vickers (HV), shore (HS)
Standard Impact Device	Impact device of Type D
Optional Impact Device	D/ C /DC / D+15 / DL/ E/ G
Display	Color screen
Data Memory	Up to 100 groups (impact times 32 ~ 1)
Power Supply	3V (two AA size alkaline batteries in series)

Technical Specification

Interface Port	USB
Measuring Materials	Steel and cast steel, alloy tool steel, cast aluminum alloy, gray cast iron, nodular cast iron, stainless steel, copper zinc alloy(brass), copper tin alloy (bronze), pure copper
Hardness Scales	Richter (HL), Brinell (HB), Rockwell B (HRB), Rockwell C (HRC),Vickers (HV), shore (HS)
Working Time	Low brightness for about 15 hours;High brightness for about 7 hours
Dimensions	150×76×37 mm
Weight	245g
Working Environment	Operating Temperature: -10℃ ~ +50℃ Storage Temperature: -30℃ ~ +60℃
	Relative Humidity: ≤90%
	No strong vibrations, no intense magnetic fields, no corrosive media, and no severe dust in the surrounding area.

Standard Delivery

Name	Qty	Photo
Main unit	1 pc	
D type impact device	1 pc	
Standard Test block	1 pc	
Brush	1 pc	
Supporting ring	1 pc	
AA battery	2 pcs	
Manual	1 copy	
Instrument box	1 pc	

Standard Delivery

Name	Qty	Photo
Other Impactor	1 pc	
Software	1 pc	/
Cable	1 pc	
Printer	1 pc