

iLeeb-210 Leeb Hardness Tester



Video



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Features and Applications

Product Features

- Compact design for easy portability and usage;
- Multiple interfaces and buttons facilitate device connection, operation, and control;
- A variety of impact devices cater to different measurement needs, with a powerful digital display unit;
- A large touchscreen LCD clearly displays a wealth of information including impact device type, material, conversion value, impact direction, hardness value, statistical information, statistical points, backlight, and more, providing convenience for user viewing and operation;
- A broad hardness display range (0-999HLD) with accuracy ($\pm 6\text{HL}$) that meets conventional measurement requirements; a data storage capacity of up to 500 measurement data points allows for the recording of numerous measurement results;
- Comprehensive testing functionality, from instrument preparation, specimen preparation, to the testing process, data browsing, and report printing, with standardized operations and complete procedures at each stage;
- Versatile setting functions, with settings on the main interface, menu, calibration, etc., covering measurement, printing, storage management, and more.



Product Applications

- Suitable for hardness testing of various materials such as steel and cast steel, alloy tool steel, stainless steel, gray cast iron, ductile cast iron, cast aluminum alloy, brass, bronze, copper, forged steel, and more;
- Can be used for raw material inspection and hardness testing of semi-finished and finished products during the production process. By setting tolerance limits and over-limit alarm functions, it can promptly detect products with abnormal hardness, ensuring that product quality meets requirements;
- Used for researching the impact of different materials or processing techniques on material hardness.

Instrument Appearance



1. Main Unit

2. Hardness Block

3. Impact Device

4. LCD Screen



1. Sensor Jack

2. USB Jack

3. Charging Jack

4. Stand

Instrument Appearance



1. Battery Compartment

2. Battery

3. Battery Cover

Impact Device



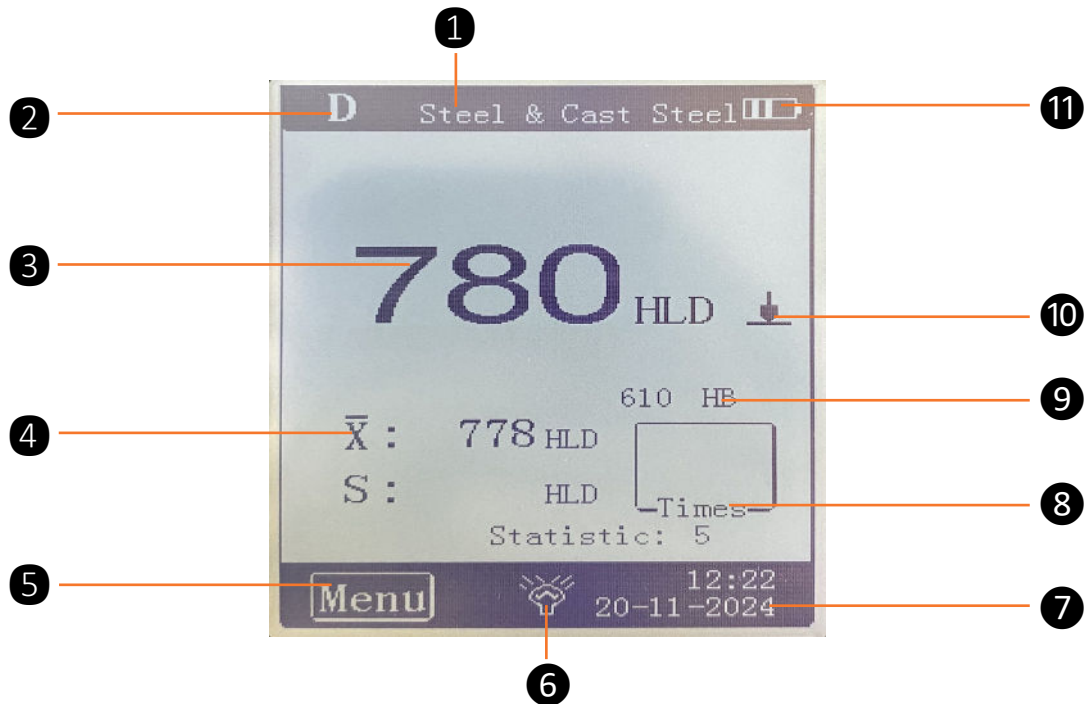
1. Release Button
5. Impactor

2. Loading Sleeve
6. Supporting Ring

3. Conduit
7. Conducting Wire

4. Coil Component
8. Connector

Operation Interface



1. Material Selection

2. Type of Impact Device

3. Hardness Value

4. Statistics: Mean and Range

5. Menu Button

6. Backlight Button

7. Time Display

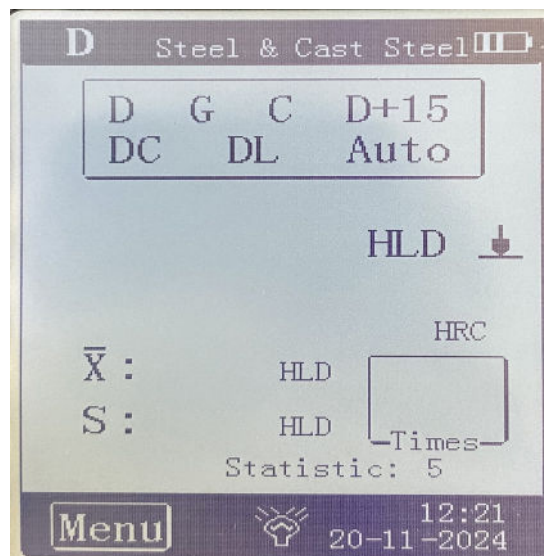
8. Number of Tests

9. Conversion Value

10. Direction of Impact

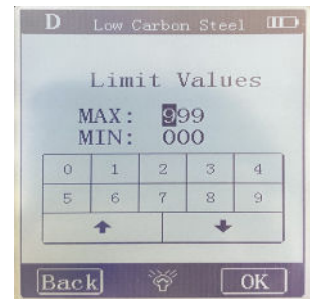
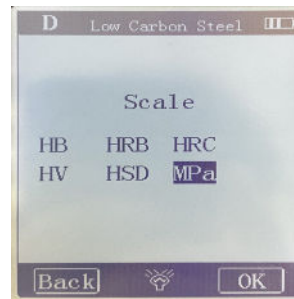
11. Battery Level

Main Interface - Impact Head Conversion



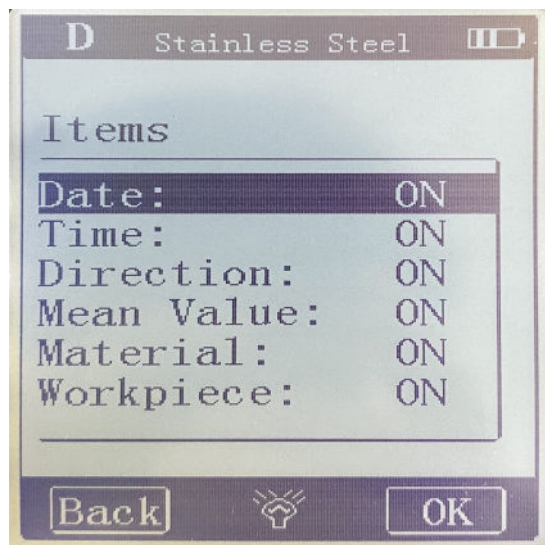
Operation Interface

Testing Setup



- Users can set the material to be tested, impact direction, scale, tolerance, statistical points, and workpiece number on this interface

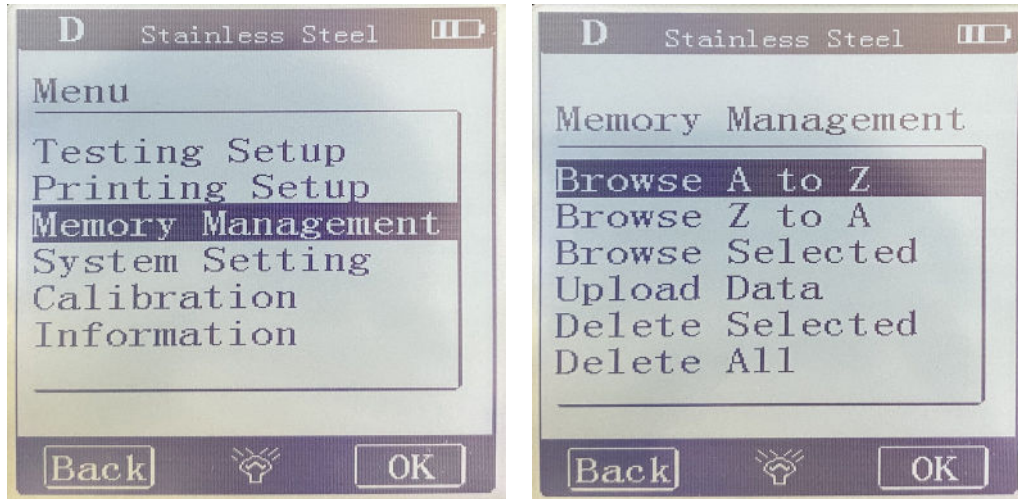
Printing Setup



- On this interface, users can select the print option, choosing to print selected data or all data

Operation Interface

Memory management



- Users can also opt to browse data sequentially or view all data on this interface.
- Selected data or all data can be deleted.
- Data can be uploaded to a computer via a data cable.

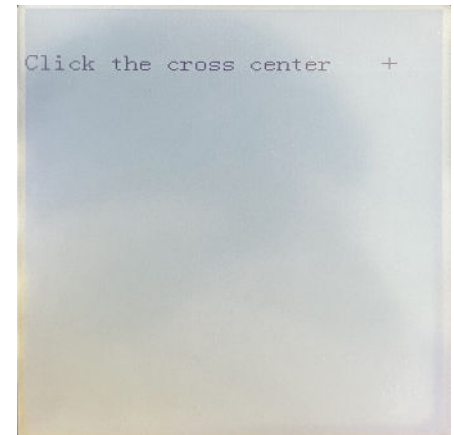
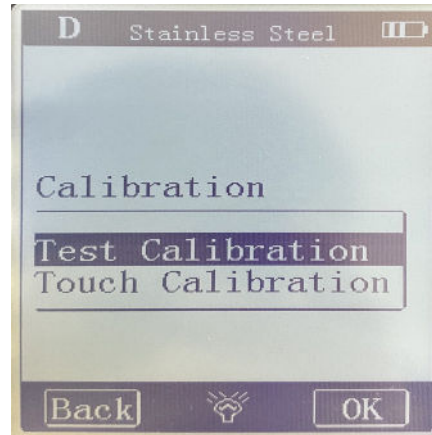
System Setting



- Customizable user-defined materials can be set, with options for A, B, and C.
- Automatic print settings can be configured.
- Gross error settings: When enabled, a "!" will appear if a gross error is detected.
- Keypad sound switch: Allows users to turn on or off the keypad buzzer sound.
- Language settings: Five languages can be set.
- Date and time settings can be configured.
- Backlight duration can be set to 15s, 30s, 45s, or 3min.

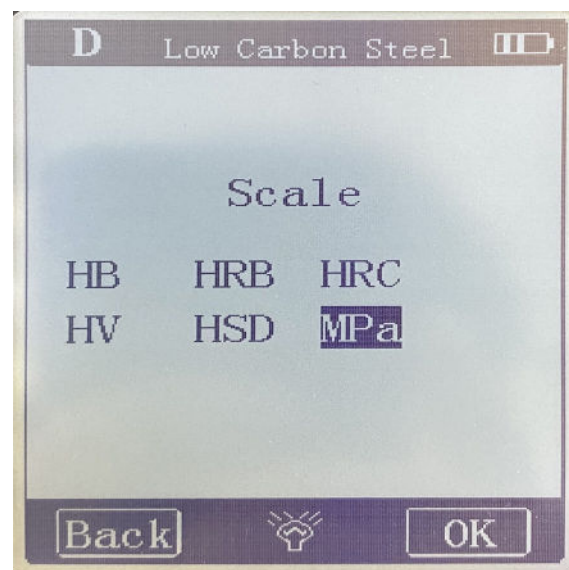
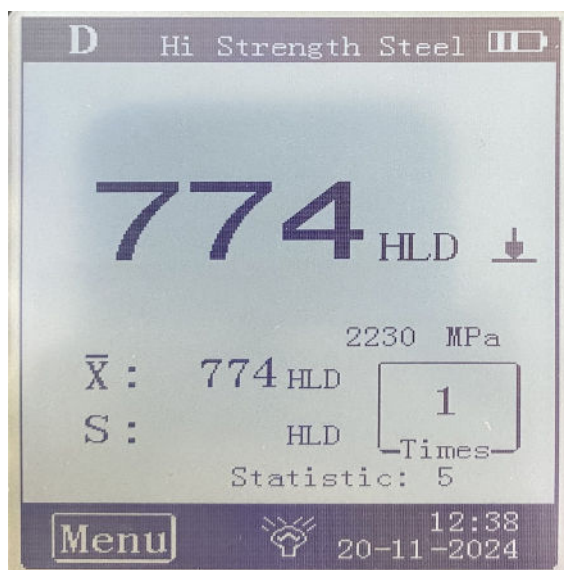
Operation Interface

Calibration



- Users can calibrate the measured result values on this interface;
- Calibrate the positioning of the instrument's touchscreen;

Tensile Scale Conversion



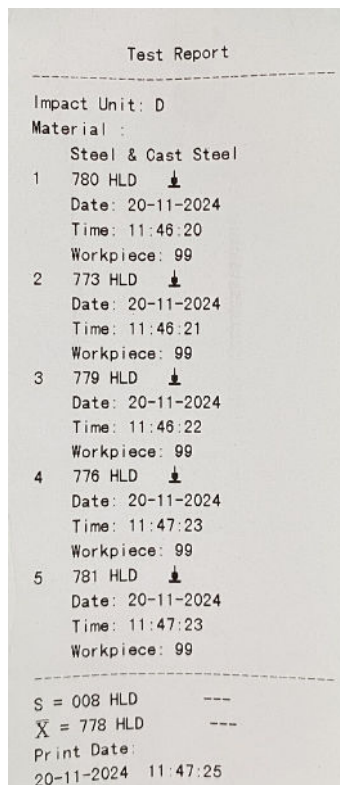
- This instrument is equipped with a conversion scale for tensile strength. Users who require it can select this conversion scale in the "Scale" setting of the measurement settings.

Product Details

Printer Connection



- The instrument connects to the printer via Bluetooth, allowing users to directly select printing after measurement. The printer can quickly print out the measurement results;
- The printed result displays detailed information.



- The displayed information on the printout is detailed.

Technical Specification

| | |
|------------------------------|--|
| HL Display Range | 0~999HLD |
| Accuracy | ± 6 HL |
| Unit Display | large LCD, backlight, touch screen |
| Unit Material | shock resistant ABS plastic |
| Internal Data Storage | 500 measured value |
| Resolution | 1 HL; 1 HV; 1 HB; 0.1 HRC; 0.1 HRB; 1 HSD; 1 MPa |
| Battery Type | rechargeable Ni-MH battery |
| Operating Temperature | 0°C~+50°C (32°F~122°F) |
| Storage Temperature | -10°C~+60°C (14°F~140°F) |
| Humidity | 90 % max. |
| Dimension | 130 x 87 x 28 mm (5.1 x 3.3 x 1.1 inches) |
| Weight | 240g |

Standard Delivery

| Name | Qty | Photo |
|--------------------|------|--|
| Main Unit | 1 pc |  <p>A handheld device with a color screen displaying a data table. The screen shows columns for 'No.', 'UL', 'DIP', 'MATERIAL', and 'RF'. The table contains several rows of data, including '003 111 D', '003 777 D', '004 778 D', and '005 780 D'. The device has a 'Back' button and an 'OK' button at the bottom.</p> |
| Small Support Ring | 1 pc |  <p>A small, cylindrical metal component with a black plastic cap and a black cable attached to the side.</p> |
| Battery Charger | 1 pc |  <p>A small, cylindrical black device with a white top surface, likely a battery charger.</p> |
| Instrument Box | 1 pc |  <p>A black rectangular power adapter with two gold-colored prongs on the right side. The text on the device includes 'POWER ADAPTER', 'INPUT: AC 100-240V 50/60Hz', 'OUTPUT: 5V 1A', and 'MADE IN CHINA'.</p> |

Standard Delivery

| Name | Qty | Photo |
|---------------------|--------|---|
| Communication Cable | 1 pc |  |
| Cleaning Brush | 1 pc |  |
| Small Support Ring | 1 pc | |
| Manual | 1 copy |  |
| Instrument Box | 1 pc |  |
| Mini Printer | 1 pc |  |