

LH-150/150s

Screen Brightness Meter

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# Users Manual

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## Overview

LH-150 Screen brightness meter is a professional instrument used to measure the brightness of various display screens. The instrument is designed with imported sensors and chips, and its performance is stable, and the measurement is fast and accurate Suitable for brightness measurement of LCD screens, LED screens, fluorescent screens, backlight sources, lightboxes, medical X-rays, etc.



## Parameter

1. range: 0.1-50000cd/m<sup>2</sup> (0.1-14593fL)
2. Resolution: 0.1 cd/m<sup>2</sup>
3. sampling: 3 Hz
4. error rate:  $\leq \pm 5\%$
5. visual field: 48\*48mm
6. Light window:  $\phi 18\text{mm}$  (150s 5mm)
7. handle: 29\*63mm
8. Cable Length: 1m
9. Host size: 132x71x29mm
10. Carton size: 185x115x60mm
11. Net weight: 120g
12. power supply: AAA\*4

## Operate

### Key

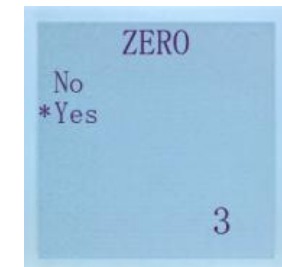
1. OK: Confirm and turn on/off, press the OK button to turn on, hold down for 3 seconds to turn off
2. M: MODE Switching+directional keys: up

3. R: REC Query data+directional keys: below
4. S: SET Enter menu+directional keys: left
5. H: HOLD Data locking and unlocking+directional keys: right



### Set up

Press the S key to enter the menu. The following image shows the menu interface



1. Unit: Select units cd/m<sup>2</sup>, fL
2. Mode 1: Select Display Content P – Brightness Only, ° C – Temperature Only, P+° C – Brightness and Temperature
3. Mode 2: Set the test brightness ratio, deviation rate, and difference value
4. Automatic shutdown: Yes – automatic shutdown after 3 minutes of inactivity, No – no automatic shutdown
5. Zeroing: When there is no light signal input and the displayed value is not 0, this function can be used to reset the value to zero  
Operation method: Without light signal input, enter the zeroing interface, press the R key to move the cursor to "Yes", hold down the OK key without releasing it, and release the button when the interface automatically exits. Please note that operating with a light signal input will result in incorrect test results!!!
6. Language: Select language Chinese – Chinese, English – English

6. Factory reset: Restore the parameters of the tester to their factory settings

### Brightness and ambient temperature measurement

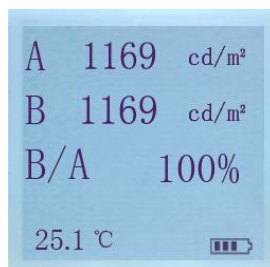
1. Press the OK button to turn on the device, wait for the power on self-test to complete, and enter mode 1- brightness measurement mode by default



2. Aim the probe at the light source and read the brightness data. Note that each measurement must ensure that the distance, position, and angle are the same in order to obtain consistent data.
3. Press the H key to lock and unlock the peak value, and press the OK key to save the data and unlock it.
4. The saved data can be read by pressing the R key in mode 1, flipping through pages by pressing the up and down arrow keys, and exiting the query by pressing the OK key in the data query interface; Press the H key to enter the delete current data menu, then press the up and down arrow keys and OK key to select the desired operation; Press the S key to enter and delete all data.

### Luminance ratio, deviation rate, and difference measurement

1. Press the M key to switch to mode 2. The following image shows the brightness ratio interface:

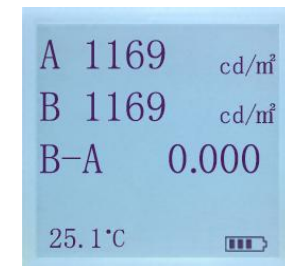
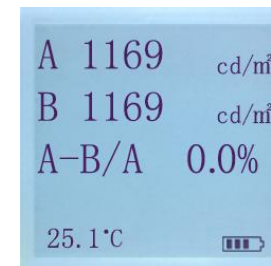


At this moment, A flashes, and both A and B display the current brightness value. The brightness ratio displayed below is B/A 100%

3. Aim the probe at a certain test sheet on the screen, press OK to lock the current test lighting value A (press OK again to re-measure A), and then B starts flashing.
4. Aim the probe at another test point, B displays the current test brightness value, and the instrument automatically calculates the percentage of B/A, which is the brightness ratio.
5. Press the H key to lock the data, press the OK key to save when locked, and press the H key again to unlock B if no save is needed.
6. The saved data can be read by pressing the R key in mode 2, and the specific operation is the same as in mode 1.
7. Settings menu - Mode 2- selectable brightness ratio, deviation rate, and difference value.

Deviation rate: (brightness of point A - brightness of point B)/brightness of point A \* 100%, tested using the same brightness ratio method.

Difference: Brightness at point B - Brightness at point A, tested using the same brightness ratio method.



### Precautions

1. Avoid high temperature and high humidity environments.
2. When not in use for a long time, the battery should be taken out and stored in the packaging box away from light.