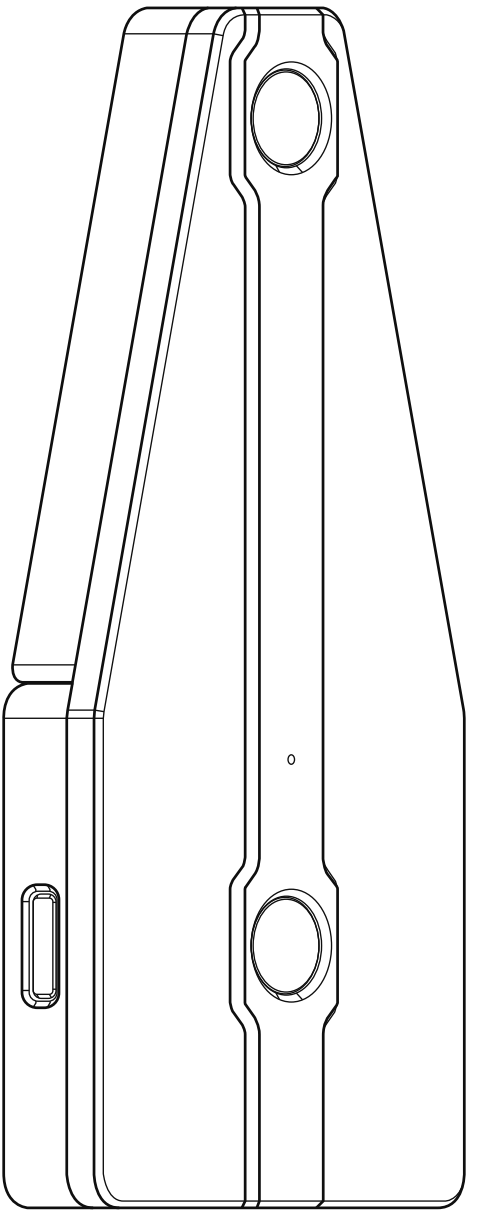
HL200

Headlight Tester

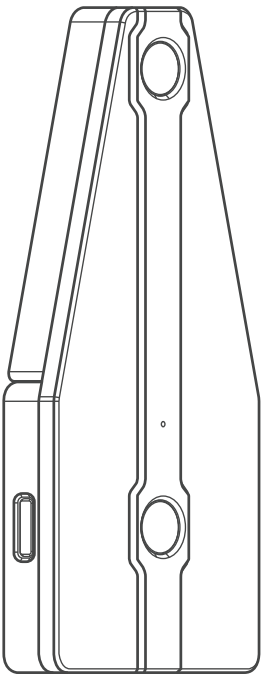
Operation Manual



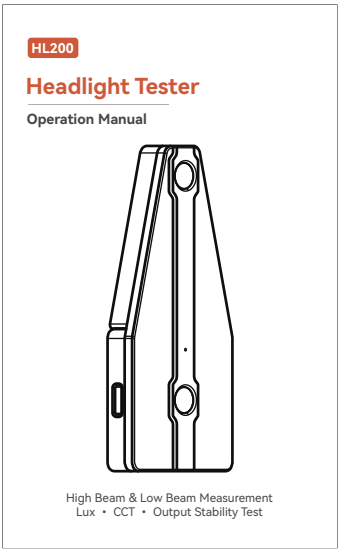
High Beam & Low Beam Measurement
Lux • CCT • Output Stability Test

Product Overview

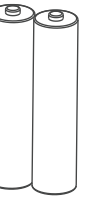
Packing List



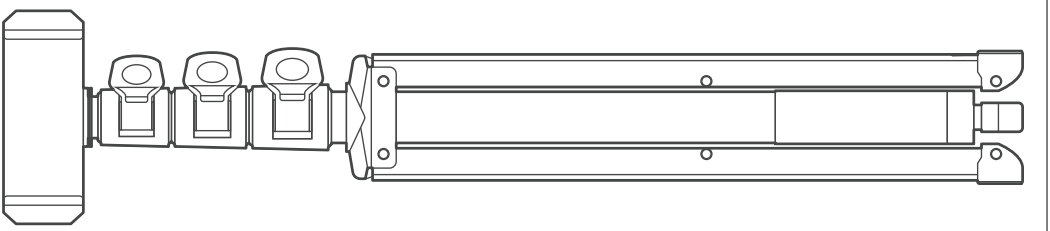
HL200
Headlight Tester ×1



Operation Manual ×1



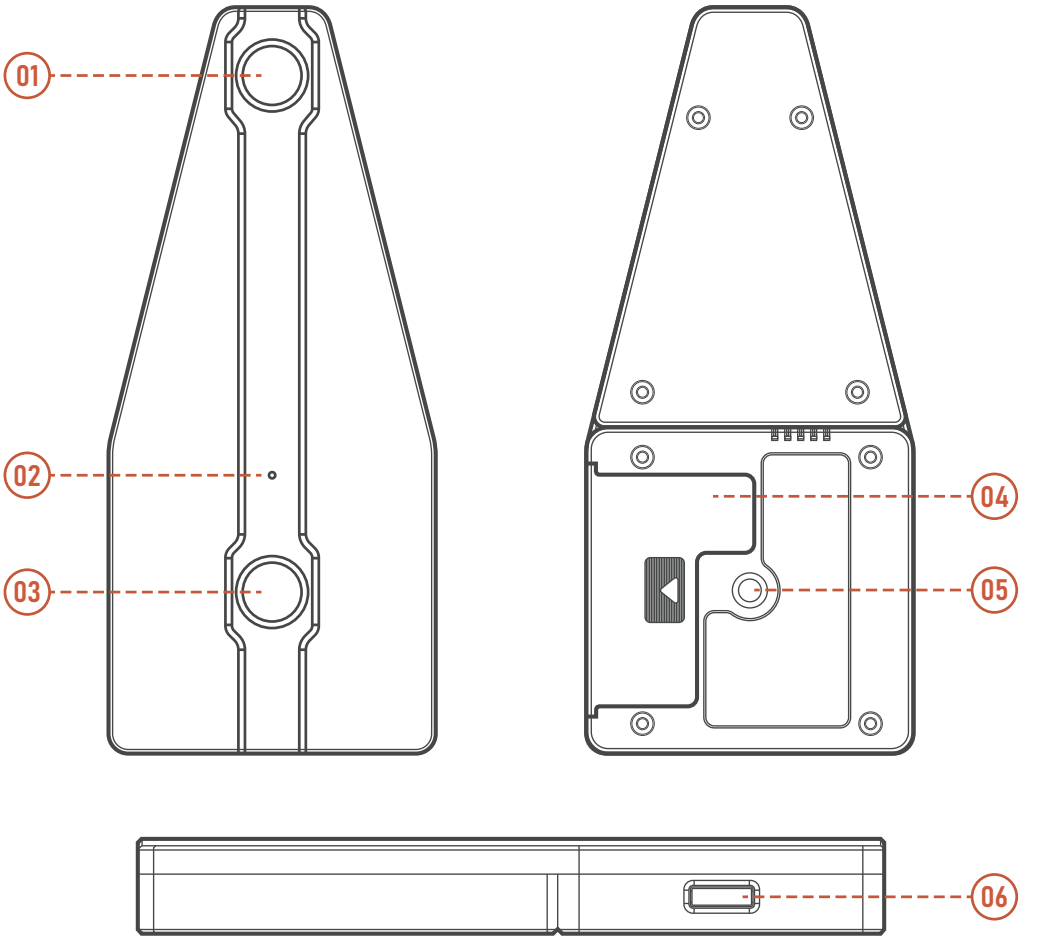
AAA Batteries ×2



Tripod ×1

Product Overview

Component Description



01 High Beam Sensor

02 Indicator LED

03 Low Beam Sensor

04 Battery Compartment

05 1/4" Threaded Mount

06 Power Button

Initial Use and Bluetooth Pairing

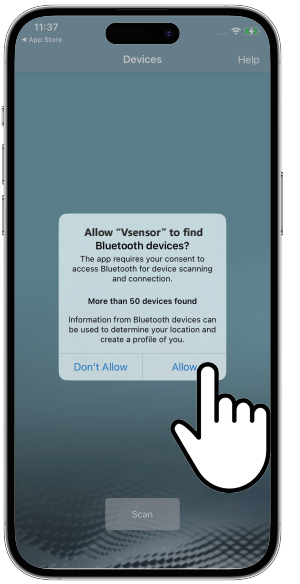
Download the App

Prior to operating this instrument, please download the dedicated **Vsensor** app to conduct tests and related operations.

App Store

Google Play

Please scan the QR code to download the Vsensor app. Alternatively, go to Google Play Store (Android) or Apple App Store (iOS) and search for “Vsensor”.



Note: Depending on your phone and OS version, Bluetooth and Location/Nearby Devices permissions may be required for device discovery.

Location permission is only used for Bluetooth scanning. The App does not collect or upload location information.

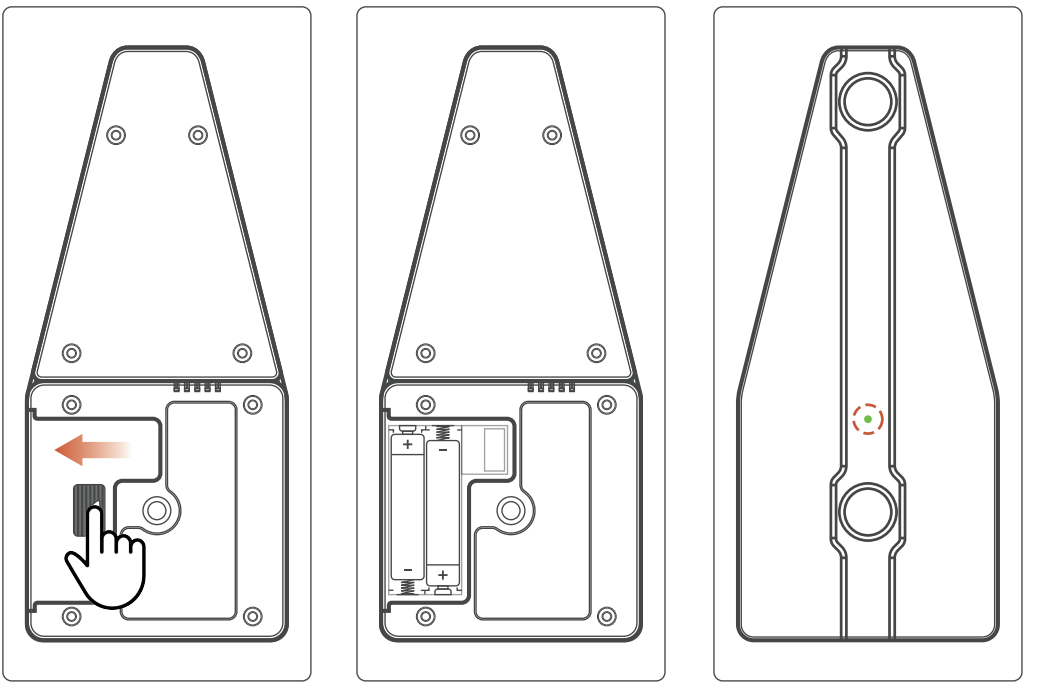
Initial Use and Bluetooth Pairing

Powering On the Device

Press the textured triangular mark on the battery-compartment cover and slide it leftward to open the cover.

Insert the batteries in accordance with the polarity markings, then refit the battery-compartment cover.

Short-press the Power Button on the side of the device. The Indicator LED will illuminate green once the device is powered on.



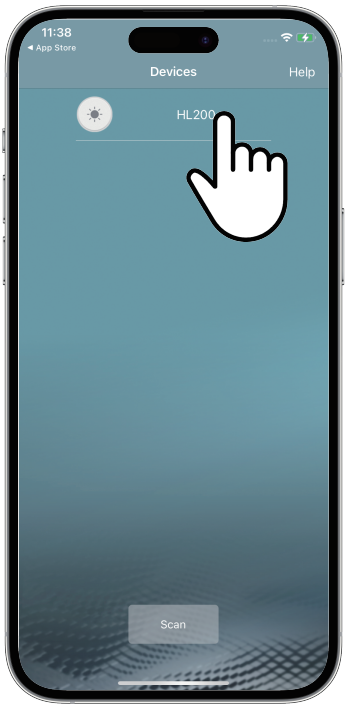
Note: If the Indicator LED fails to light up, or blinks continuously, please check whether the batteries have power. Replace the batteries and try again if they are depleted.

Initial Use and Bluetooth Pairing

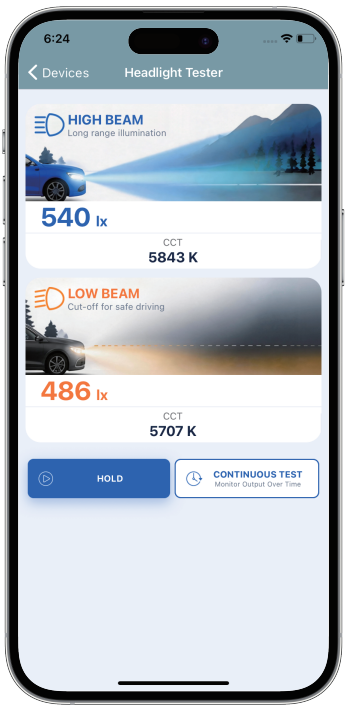
Pairing with HL200

Enable Bluetooth on your phone, open the Vsensor app, and follow the steps below to connect to the HL200.

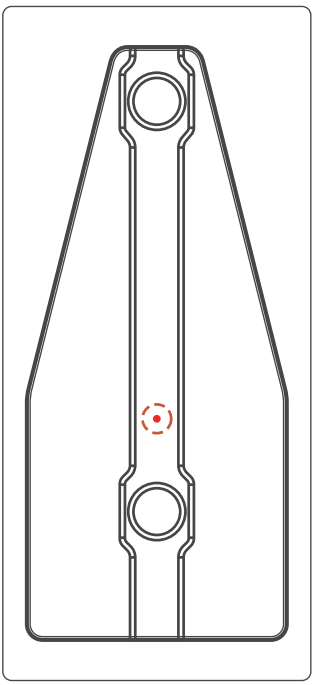
1 Tap Scan to search for devices.



2 Tap the device model “HL200”.



3 Pairing is successful.

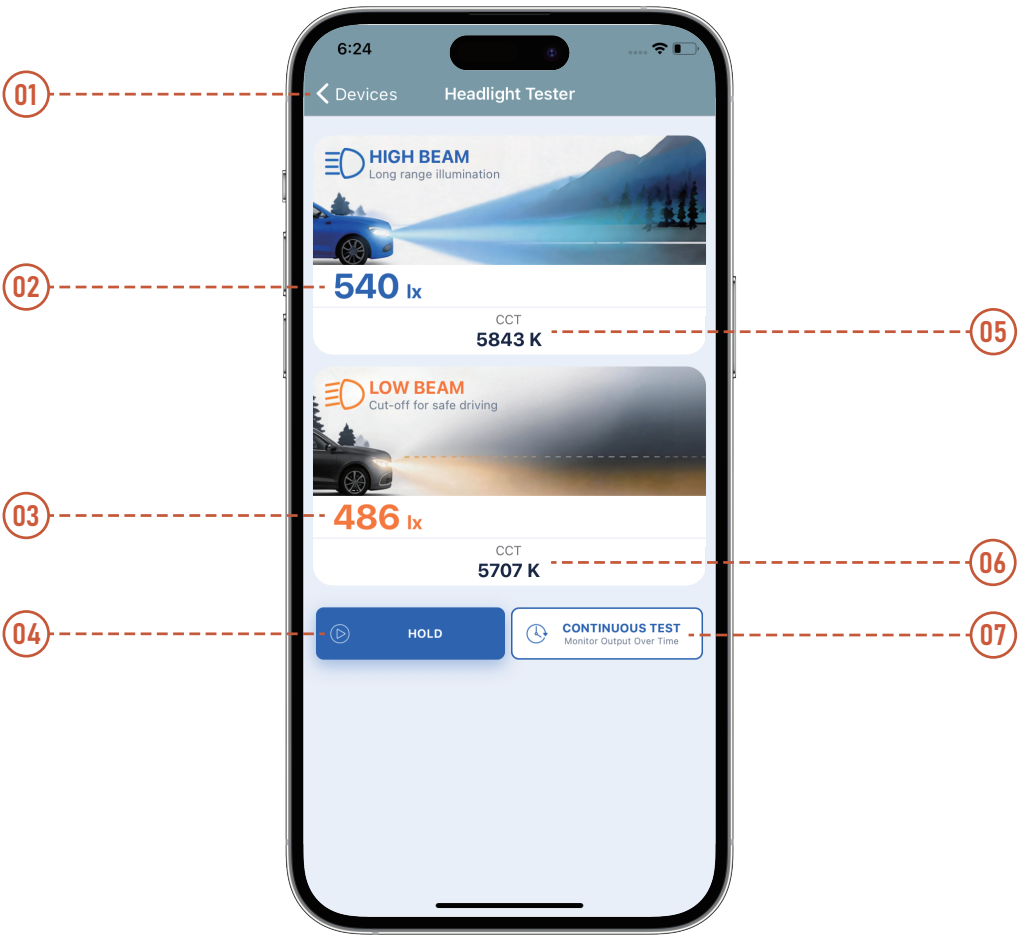


4 The Indicator LED turns red when the Bluetooth connection is established.

App Functions & Operations

Main Interface Description

Read real-time illuminance and color temperature values for the high and low beams. Tap HOLD to freeze the current readings.



01 Return to Device List

02 High Beam Illuminance

03 Low Beam Illuminance

04 HOLD

05 High Beam Color Temperature

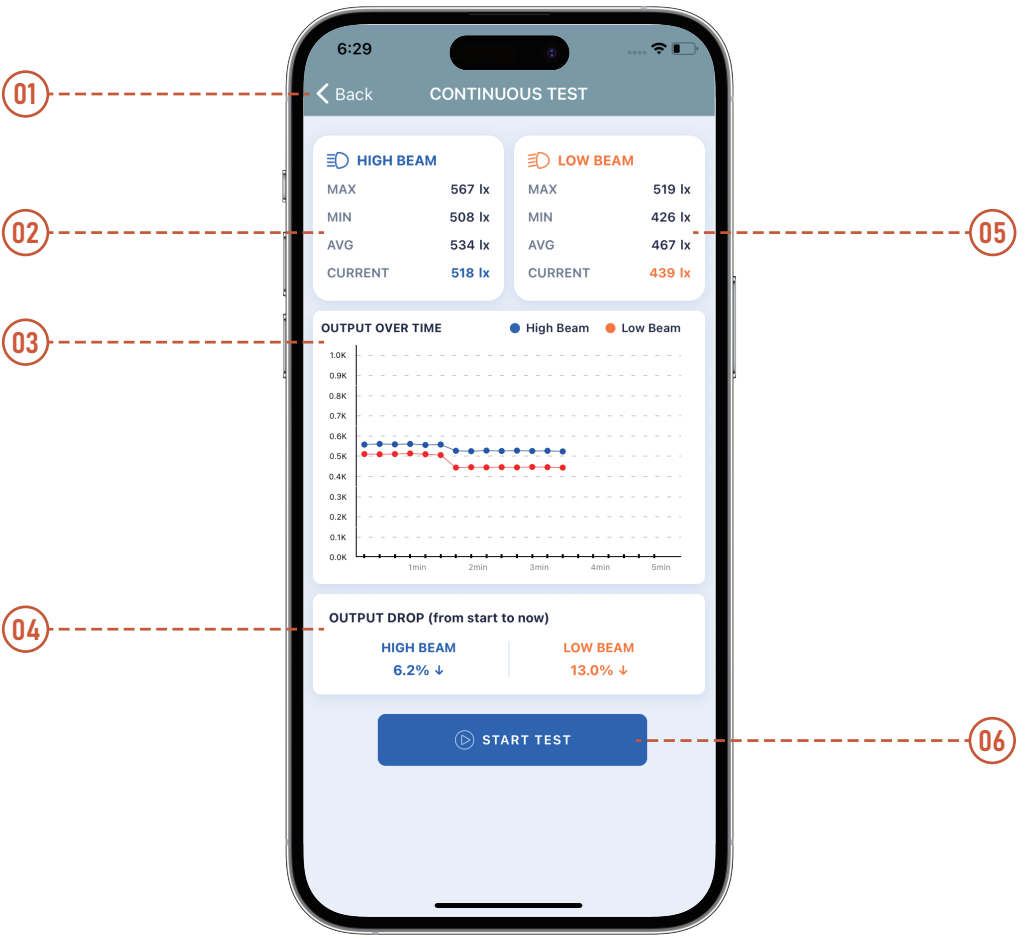
06 Low Beam Color Temperature

07 Continuous Test

App Functions & Operations

Continuous Test Interface Description

This page performs continuous-mode measurement for vehicle headlights. It displays real-time MAX, MIN, AVG and CURRENT illuminance readings of high beam and low beam headlights, real-time trend curve and output drop percentage. Tap START TEST to begin continuous measurement. Tap STOP TEST to end the measurement.



01 Back

02 High Beam Illuminance

03 Trend Curve

04 Output Drop

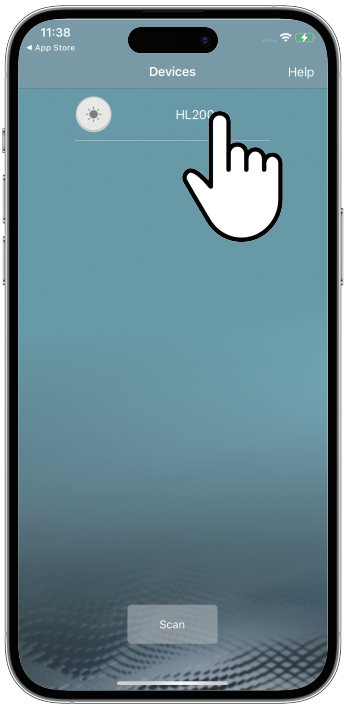
05 Low Beam Illuminance

06 Start / Stop Test

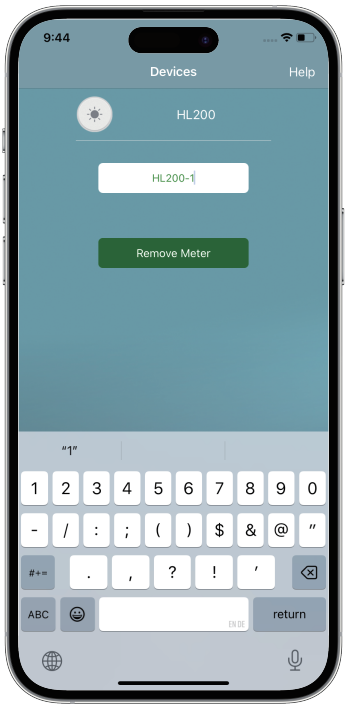
App Functions & Operations

Rename Device

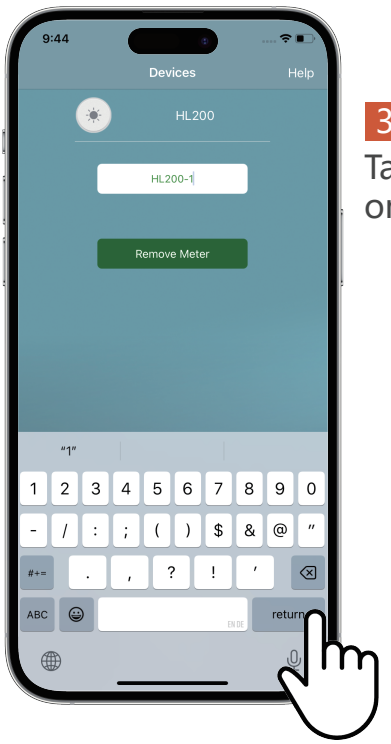
Rename the device for easy identification when you have multiple units.



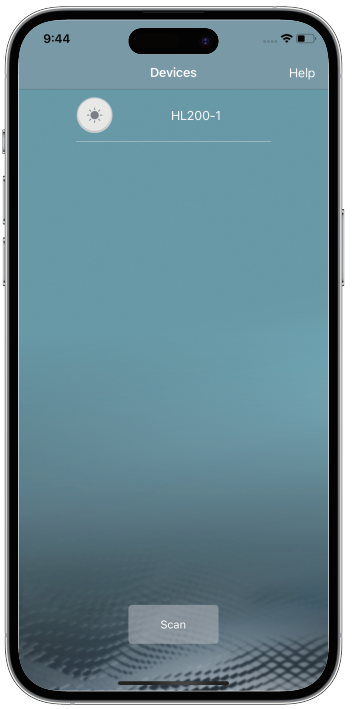
1 Long-press the device model.



2 Enter a new name.



3 Tap the Return key on the keyboard.

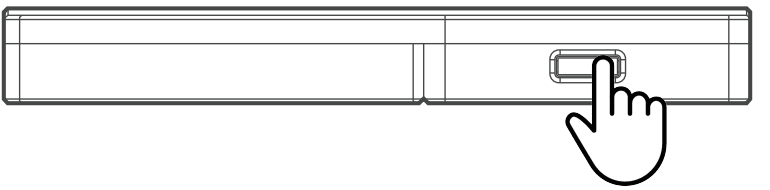


4 The device name has been updated.

App Functions & Operations

Turn Off the Device

Long-press the Power Button for 2 seconds. The device will shut down after the Indicator LED flashes.



Notes

• The device will automatically power off if the illuminance remains below 20 lx continuously for 1 hour.

• To power the device on again, short-press the Power Button.