

TreadEye S1

Smart Tire Tread Detector

App User Manual



Made in China

● Introduction

1. The App is designed to operate with the KOICCI S1 Smart Tire Tread Detector. When connected via BLE 5.0(or higher), the App enables advanced tread depth analysis, digital record management, and professional report generation.

The App enhances measurement accuracy, improves workflow efficiency, and allows users to digitally store and manage tire inspection data.

Key Features:

- Real-time tread depth display
- Multi-tire measurement recording
- Vehicle information management
- PDF inspection report generation
- Local data storage (no cloud upload)

● System Requirements

iOS Devices

- Compatible with iPhone and iPad
- iOS 13.0 or later
- BLE 5.0(or higher)
- Download from: Apple App Store (Search: "TreadEye")

Android Devices

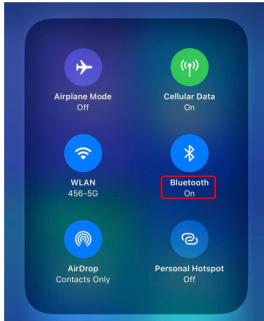
- Android 8.0 or later
- BLE 5.0(or higher)
- Location permission enabled (required for BLE scanning)
- Download from: Google Play Store (Search: "TreadEye")

● Installation & Permissions

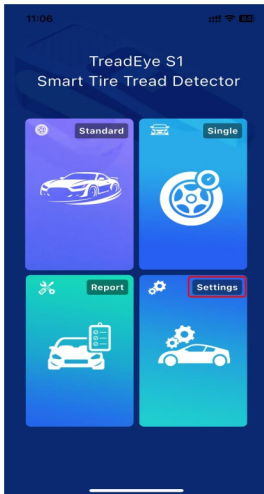
1. Download and install the TreadEye App from the official app store.
2. Open the App.
3. Grant the following permissions when prompted:
 - BLE access
 - Location access (Android only)
 - Storage access (for report saving)
4. Note:The App does not collect or upload personal data. All inspection data is stored locally on the user's device.

• Device Connection & Settings

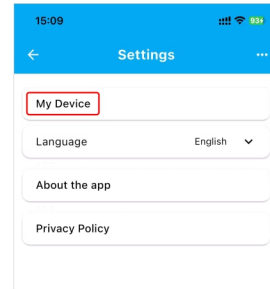
1. Power on the KOICCI S1 device.
2. Enable BLE on your smartphone or tablet.



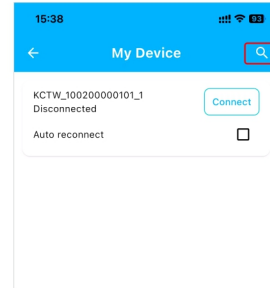
3. Open the TreadEye App and tap "Settings".



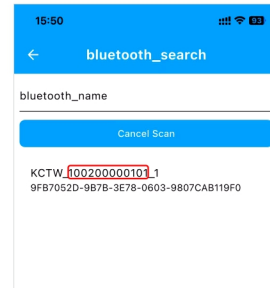
4. Tap "My Device".



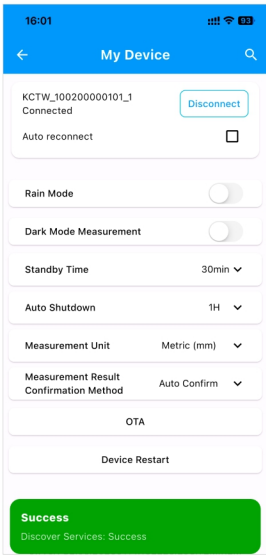
5. Tap search logo.



6. Tap the device scanned. Ensure that the number in the middle matches the serial number on the device label.



7. A green success message box appears at the bottom, along with more options, indicating that the app and device have successfully connected. Tap the back arrow to return to the main interface.



● Settings

• Rain Mode:

Enable this option when the tires are wet and the test fails in normal mode.**Keep it off under dry-tires circumstances.**

• Dark Mode Measurement:

This mode can be activated when it is too dark around the tire to see the grooves clearly for measurement.

Press the button once to position the laser on the tire surface. Press it again before the laser turns off, and the device will automatically emit a new laser and complete the measurement.

In normal mode, press the button once to complete one measurement.

• Standby Time:

Set the time interval for the device to automatically enter standby mode. Once in standby mode, the Bluetooth connection will be disconnected.

• Auto Shutdown:

Set the time interval for the device to automatically shut down.

• Measurement Unit:

Set to display in millimeters or inches (fractions).

• Measurement Result Confirmation Method:

Auto Confirm: The device automatically transmits the measured values to the app. The default recommended method.

Manual Confirm:

Step 1: After each measurement, press and hold the button until a one-finger logo appears on the right side of the screen.

Step 2: Release the button and press it again within the 3-second count-down on the right side for the data to be transmitted to the App.

Manual confirmation mode is typically used when the device is far from the phone or tablet and the app's status cannot be seen in real time during the measurement process.

• OTA:

For device firmware upgrade when available.

• Device Restart:

Restart the device.

● Operating Modes

• Mode 1 : Standalone Mode

The device can measure tread depth independently without App connection.Measurement results are displayed directly on the device screen.

• Mode 2 : App-Connected Mode

When connected to the App, users can:

View real-time measurement data;

Automatically save inspection records;

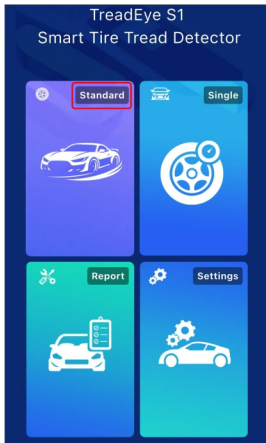
Assign tire positions (Front Left, Front Right, Rear Left, Rear Right);

Input vehicle information;

Generate professional inspection reports.

● Measurement Procedure(App Mode)

1. Ensure the tire surface is clean and free from debris.
2. Connect the device to the App.
3. Select "Standard" mode to measure all tires on the vehicle. Alternatively, select "Single" mode to measure a single tire.
4. Select the number of tire grooves. The default is 4, but can choose any number from 2 to 5.



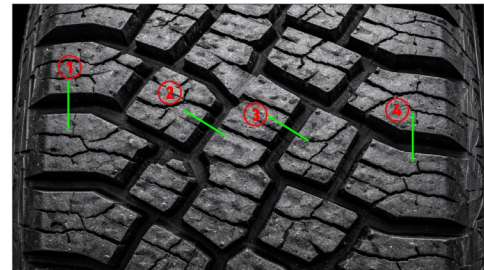
Important Notes:

- By default in the App, the measurement starts at the first outer groove and progresses toward the inner grooves. The measurement results are displayed on the device screen and in the corresponding location in the App
- In the App, the measurement sequence is "left front wheel - right front wheel - right rear wheel - left rear wheel" and automatically switches to the next tire. Or manually select a tire for measurement.
- Users can manually select any groove on any tire, and by repeatedly clicking on a tire, the positioning will automatically switch between different grooves. **In this way, users can remeasure a groove if they believe the previous measurement result was incorrect.**

5. Position the device's support legs (marked with yellow arrow) over the corresponding grooves on the tire, **keeping the device perpendicular to the grooves**. Press the button to take the measurement.



6. For tires with irregular grooves, take four measurements sequentially from the outer to the inner edge.



(The green line indicates the position of the laser line)

7. Once measurements are finished, tap "Generate a report" to output the test report. Alternatively, tap "Back" to return to the main interface, and the data just measured will be invalid.



8. Choose an existing vehicle name for the new report, or give it a new name.



Select an existing vehicle to generate a report

test1

Go

Enter a new vehicle name to generate a report

New vehicle name

Go

9. After selecting or entering the vehicle name, the newly generated report will be automatically displayed.



● Reports Management (Print & Share)

- 1. Tap "Report" on the main interface to access the report list. **Swipe left on any report to delete.**
- 2. Tap the share icon in the upper right corner to share or print the report.
- 3. After selecting the corresponding report in the checkbox, tap "OK" in the upper right corner to print or share.

← Reports List



☒	2026-03-02 16:51	Standard	bmw x5 2019
☐	2026-02-25 11:50	Standard	camry 2018
☐	2026-02-11 14:59	Standard	mycar

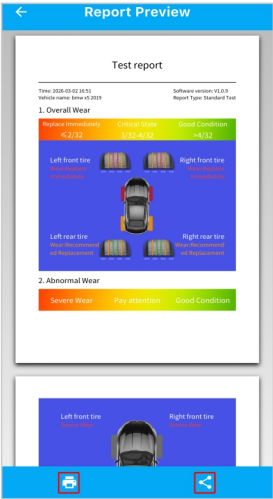
← Reports List

Cancel

OK

☒	2026-03-02 16:51	Standard	bmw x5 2019
☐	2026-02-25 11:50	Standard	camry 2018
☐	2026-02-11 14:59	Standard	mycar

- 4. Tap the print icon or share icon below to proceed. Follow the prompts to select a printer or sharing method to complete the process. The report will be processed as a PDF file.

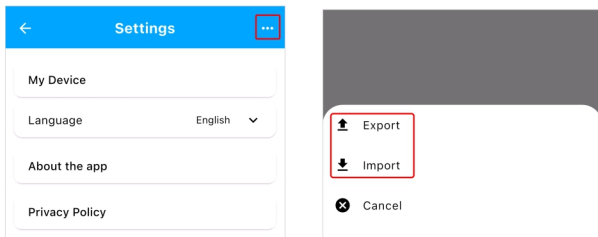


• Data Management (Export & Import)

Privacy Statement: All data is stored locally on the device. The App does not collect or upload any user data.

Users can **export** or **import** local App data (vehicle inspection reports) as needed.

1. Enter "Settings", and tap the "... " icon in the top right corner to display the import and export options at the bottom.



2. Select "Import" or "Export", then follow the prompts to complete the process as needed.

• Safety Level Indicator

Safety levels are determined based on measured tread depth values.

Groove Depth	< 1.6 mm	1.6-3.0 mm	> 3.0 mm
	≤ 2/32"	3/32" - 4/32"	> 4/32"
Value Color	Red	Yellow	Green
Suggestion	Replace Immediately	Replace Soon	Normal

For driving safety and to avoid penalties, users should comply with local regulations regarding the minimum legal tread depth for tires and perform timely tire replacement or related maintenance.

• Troubleshooting

1. Device not found:

- Confirm BLE is enabled.
- Restart the device.
- Ensure the device is not connected to another phone.

2. Unstable connection:

- Reduce distance between device and phone.
- Avoid strong electromagnetic interference.

3. Abnormal measurement:

- Clean tire surface.
- Ensure proper positioning.
- Avoid strong light.
- Turn on Rain Mode for wet tires; turn it off for dry tires.

4. App crash:

- Restart the App.
- Reinstall if necessary.
- Export the data before reinstalling and import it afterward to recover measurement history.
- Ensure system version is supported.

• Technical Support

For technical assistance, firmware updates, or product support, please contact:

- Official Website: <https://www.koicci.com>
- Support Email: support@koicci.com