

# LD2410B V2.44 (24073110) introduction of new features

## 1. Document Background

This document mainly introduces the new functions added after the iterative update of the 2410 module firmware version. You can update the corresponding firmware and APP for use.

## 2. Environment Preparation

New function is automatic detection of background noise

Firmware version: LD2410B V2.44 (24073110)

APP version:

Android version: V1.5.12

IOS version: V1.5.4

APP download link: <https://www.hlktech.com/Mobile/App/12.html>

Before using this function, please confirm that the firmware and APP in the current module are the same or higher than the firmware version in the module.

## 3. Function Usage

### Function introduction:

When this function is turned on, the module will enter the background noise detection mode after 10 seconds. The module will record the background noise data reported by each distance gate within the specified time and automatically generate a reasonable parameter to set the module automatically (both motion and stationary thresholds will be set)

During the detection process, please keep away from the detection range of the module to prevent the module from calculating the energy value triggered by humans and making it difficult to trigger.

### Functional use:

There is no interference in the surrounding environment, and the module can be restored normally and switched to no one, but the triggering distance is closer than expected or it is difficult to trigger. This is probably because the parameters used by the current module far exceed the background noise of the surrounding environment.

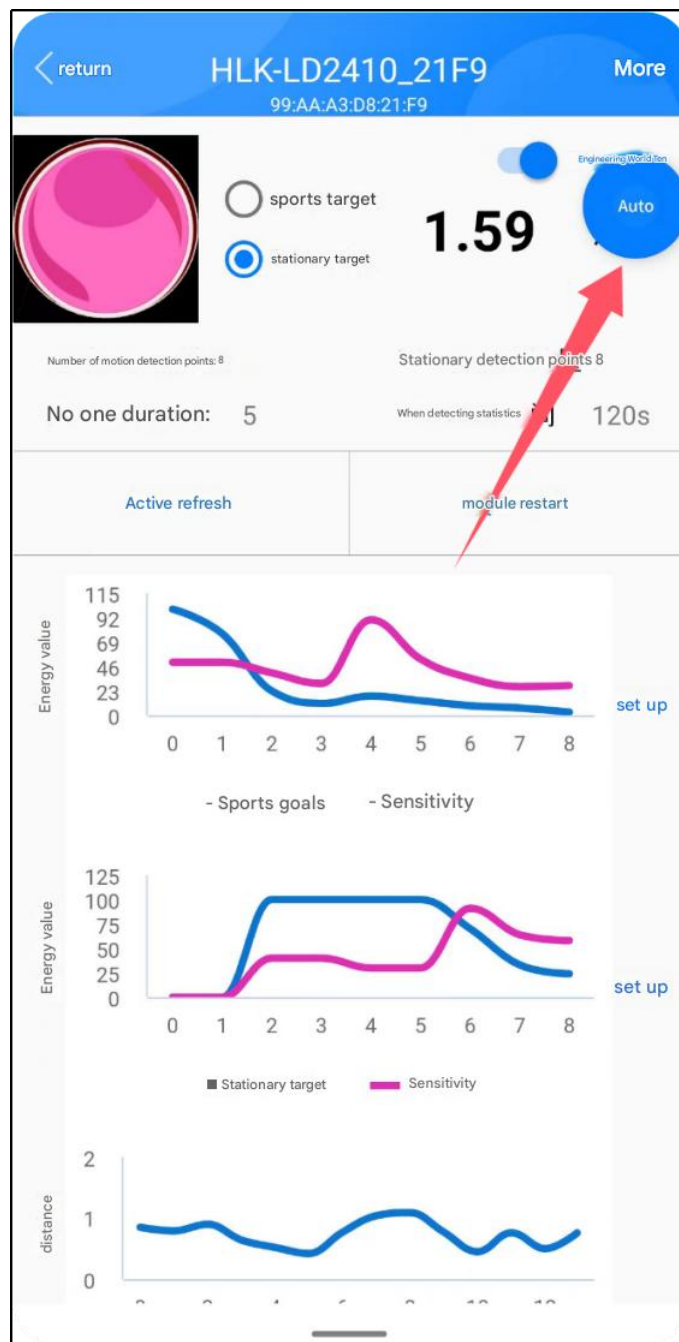
The surrounding environment is disturbed, and the module cannot switch to unmanned mode or takes a long time to switch to unmanned mode. This is probably

because the background noise energy of the surrounding environment exceeds or intermittently exceeds the set threshold.

### Directions:

The following is a demonstration using an Android APP. The usage of IOS is the same.

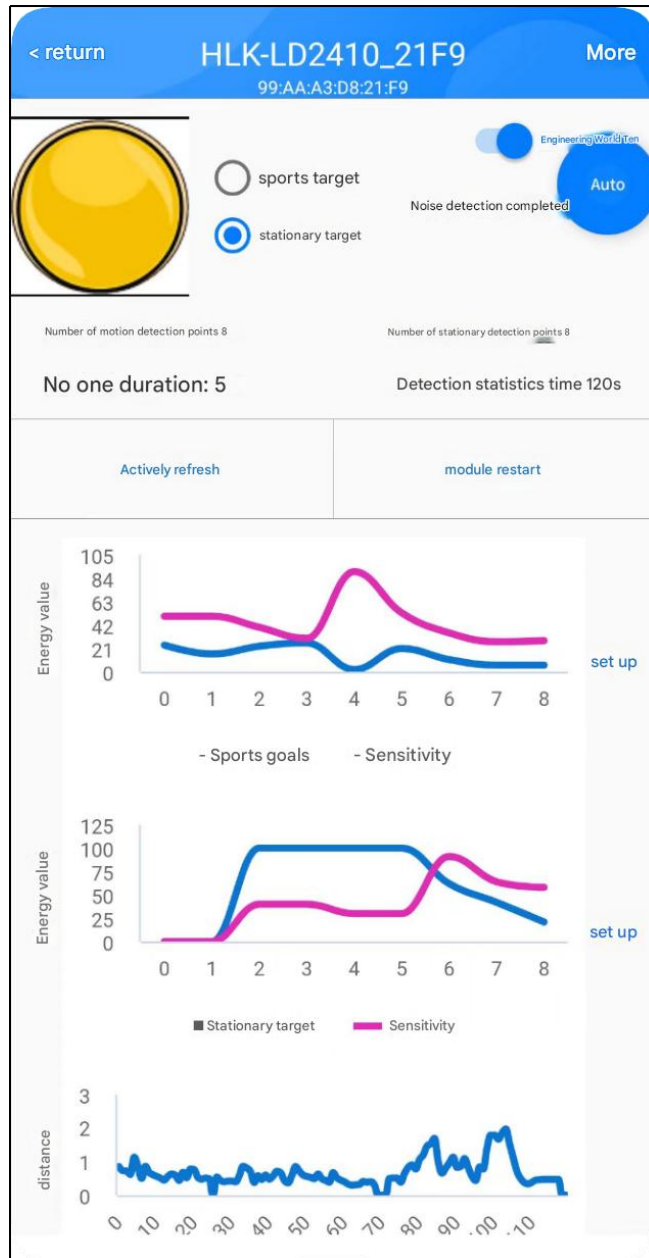
After the APP is updated to the latest version and connected to the corresponding module, an "Auto" floating button will be added to the detection interface (the default position of the button is below the upper right corner, and you can drag the button to other positions by long pressing)



Click the "Auto" function button to confirm the start of the background noise detection mode. The status icon in the upper left corner will turn yellow and the detection will officially start after 10 seconds. People within the detection range of the module must leave within this time range.



The formal background noise detection time is 60 seconds plus the time reserved for people to leave the detection range. The entire detection process will last for 70 seconds. After the detection is completed, the status in the upper left corner will change to "Detection completed"



### The difference between the background noise detection function in the two interfaces:

This function is completely different from the background noise detection function in the parameter setting interface.

The function in the detection interface will count the background noise data within the specified range, and then automatically set a reasonable parameter for the module

The background noise detection in the parameter setting interface is a pure APP function. It will also count the background noise data within the specified time, but it will list the current detected values for reference and self-setting.

