

Smart Thermal Detector User Manual



Table of Contents

Table of Contents	2
Warning and Precaution.....	3
Packaging checklist.....	3
Hardware Overview.....	4
User Interface Overview.....	5
Temperature Screening Procedure	6
Temperature Screening Hints.....	6
Thermal Detector Setting	7
Android-related setting	9
CMS Cloud control system	11
HANSHIN thermal: Mobile Application Notification	16
Local Record Exporting.....	19

Warning and Precaution

- **The operation temperature of Smart Thermal Detector is 10 - 40 °C (50 – 104 °F). Using this machine in the extreme environment may cause damage to the machine**
- **When Smart Thermal Detector shows elevated temperature (Yellow or Red), adjust the position to measure again / use another thermometer to measure the temperature accurately. If you have other signs of illness, please consult your doctor immediately**
- **Smart Thermal Detector is designed to be a rapid screening tool for temperature. This product is not designed to diagnose any disease or as a substitute for the consultation of the doctor**
- **Insert the power adapter fully into the main socket**
- **Do not touch the power adapter with wet hands**
- **Do not expose this machine to rain or excessive moisture. This machine must not be exposed to dripping or splashing water**
- **Do not expose this machine to direct sunlight and other sources of heat**

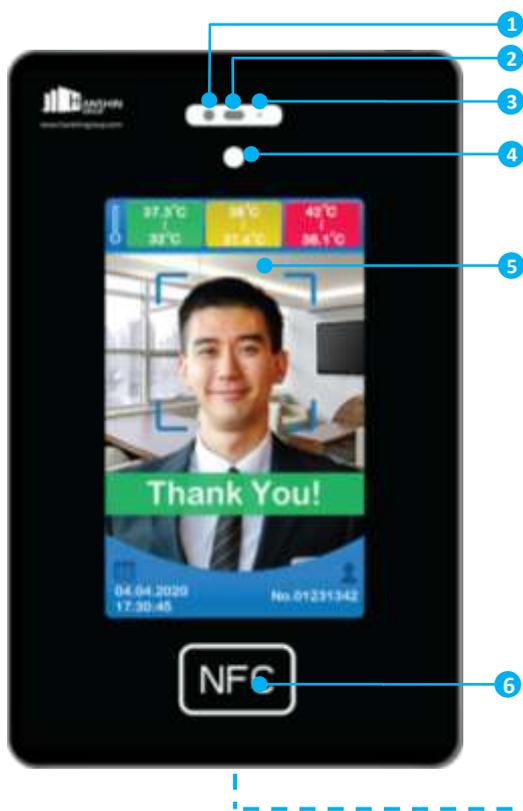
Packaging checklist

Smart Thermal Detector		
Item	Description	Quantity
1	Smart Thermal Detector	1
2	DC12V Power Adapter	1
3	User manual	1
4	Smart Thermal Detector wall mount	1

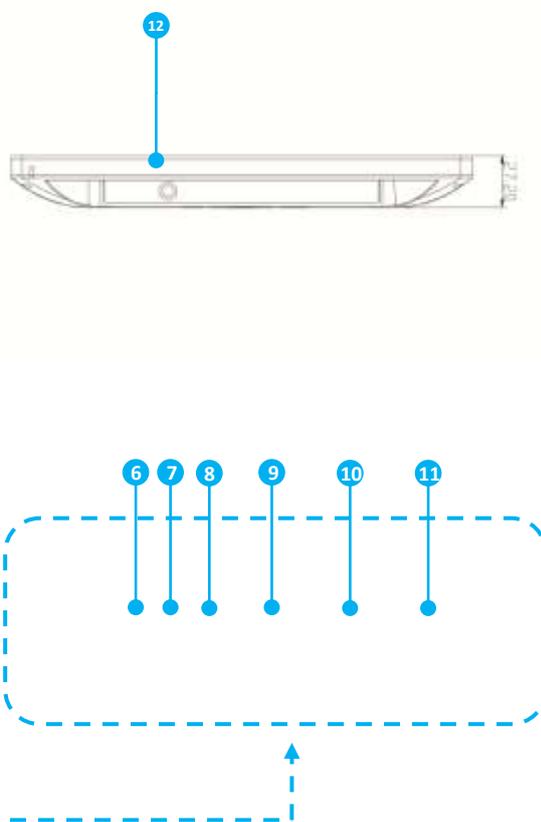
Optional items	
Smart Thermal Detector floor stands	Upon request
Smart Thermal Detector table stands	Upon request

Hardware Overview

Front

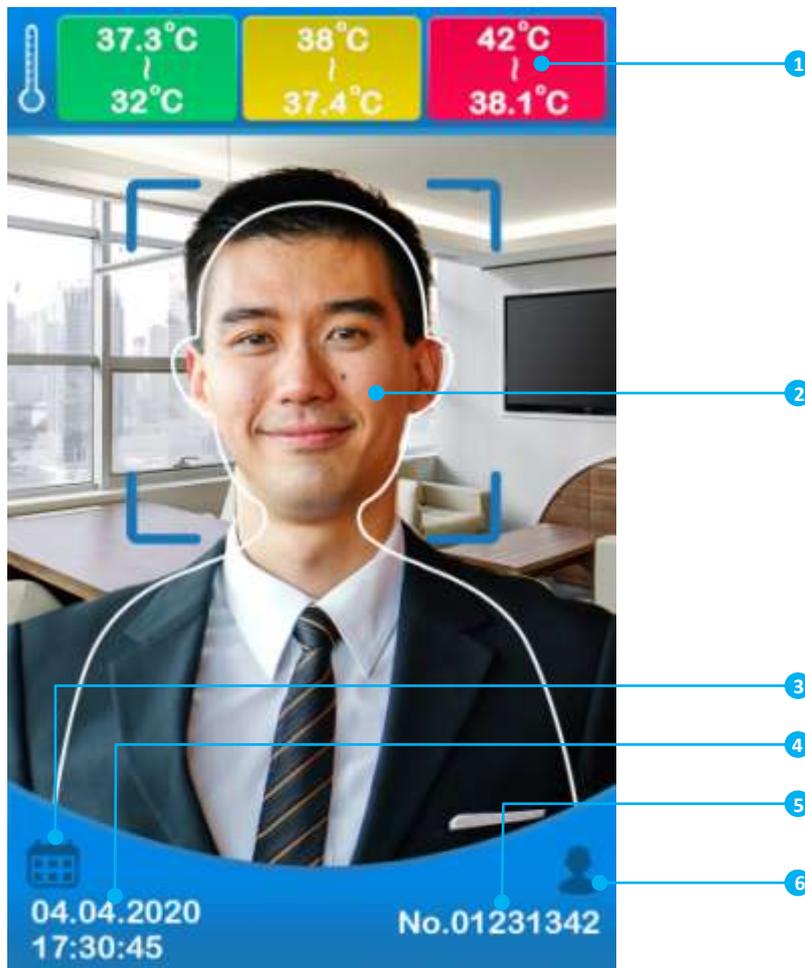


Top and back side



Front		Back	
1	Thermal Detector Sensor	6	DC Power Input
2	Distance Sensor	7	3.5 mm Audio Out
3	Environmental Thermometer	8	Micro-SD Card Slot
4	Optical Sensor	9	USB Port
5	10.2 inch LED display	10	USB Port
6	NFC Sensor	11	RJ45 LAN Port
		12	Power on / off button

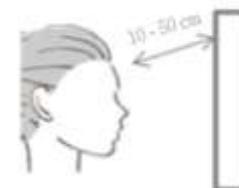
User Interface Overview



1	Temperature Detection Standard
2	Temperature Detection Area
3	Local Exporting
4	Date & Time
5	NFC Card information
6	Setting

Temperature Screening Procedure

1. Tap NFC card on the NFC Sensor if you would like to record detection with your detection (if applicable)
2. Move your head towards the Smart Thermal Detector until your face covered most area of the human-shaped frame of the detection area (around 50 cm distances between the forehead and the machine). Detection area will show a scanning animation when the distance is appropriated. If no scanning animation is shown, move your head closer to the machine. The Screening will start immediately once the animation is shown
3. Wait for 1 second until the display shows the screening result
4. The display shows below screening result regarding the use of body temperature



		
32°C - 37.3°C (89.6°F - 99.1°F) Green Normal Body Temperature	37.4°C - 38°C (99.2°F - 100.4°F) Yellow Moderate Fever	38.1°C - 42°C (100.5°F - 107.6°F) Red High Fever
		
Temperature a bit low Recommend to take off glasses and retry	Temperature too low The measurement may be done incorrectly / interference found Please retry	Temperature too low The measurement may be done incorrectly / interference found Please retry

Temperature Screening Hints

To ensure temperature screening result accurate, please avoid below environmental factors:

Factors	Effect
Room Temperature Too High / Low	Deviations will be found in Measuring results
Obstruction found between the forehead and the measuring machine	Measure unsuccessfully
Measuring too far	Inaccurate measuring results

Users should avoid measuring temperature in the cases below, wait for 20 minutes before measuring the temperature.

Situation	Effect
After intense exercise	Measure result will be high
After hot bath	Measure result will be high
After long time exposure to directly sunlight	Measure result will be high
Wearing too many clothes / not enough clothes	Measure result will be high/low

Thermal Detector Setting

Connect USB Mouse to the Smart Thermal Detector for detail settings of the software.

Consult your IT Administrator before the setting

Click the setting icon by moving the mouse cursor with your connected mouse.



The configuration page will be shown immediately.

Basic Setting

- Capture photo when body temperature detected exceed 37.3°C / 99.1°F
By enabling this function, a photo will be captured when abnormal body temperature is detected (e.g. Yellow and Red)
- Capture photo when body temperature detected successfully
By enabling this function, a photo will be captured after the detection no matter what the result is
- Enable smart camera detection
By enabling this function, smart camera can detect human faces
- Enable fast detection
1 second fast detection is enabling
- Enable body temperature measurement after tagged NFC card
By enabling this function, the measurement will only start after users tap their NFC card

Basic Setting:

- Capture photo when body temperature detected exceed 37.3°C / 99.1°F
- Capture photo when body temperature detected successfully
- Enable smart camera detection
- Enable fast detection
- Enable body temperature measurement after tagged NFC card
- Display 24H
- Display MM/DD/YYYY
- Display in °F (degrees Fahrenheit)

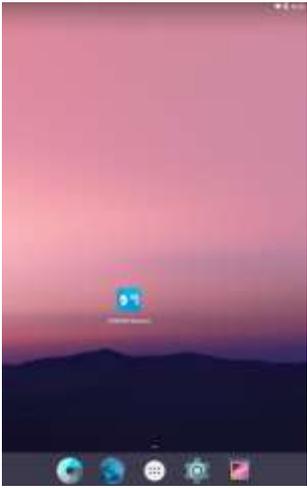
<ol style="list-style-type: none"> 6. <u>Display 24H</u> Change display of 12H into 24H 7. <u>Display MM/DD/YYYY</u> Change display of DD/MM/YYYY into MM/DD/YYYY 8. <u>Display in °F (Degree Fahrenheit)</u> Change display of °C into °F 	
<p>Advanced Setting</p> <p>It is not necessary to set the advanced configuration in normal usage. Please contact your local supplier before making any of the advanced settings.</p> <ol style="list-style-type: none"> 1. <u>Kiosk – Machine ID</u> Enter the Machine ID provided by your local supplier. Make sure the machine is connected to the internet before activating. 2. <u>Cloud Server Address</u> Enter the CMS web address to connect to the cloud platform. This value is usually pre-configured and not necessary to configure. 	<p>Advanced Setting:</p> <p>Kiosk - Machine ID: <input type="text"/> <input type="button" value="Activate"/></p> <p>Cloud Server Address: <input type="text" value="http://api.hs-cms.net/"/></p>

Android-related setting

Smart Thermal Detector is running in Android platform. Besides those settings in the smart thermal detector software, there are some basic settings to be set in Android.

Connecting to Wi-Fi network

Smart Thermal Detector supports connecting to the internet with both Wi-Fi and LAN. Before using the Smart Thermal Detector, it is required to set the internet settings in the Android system.

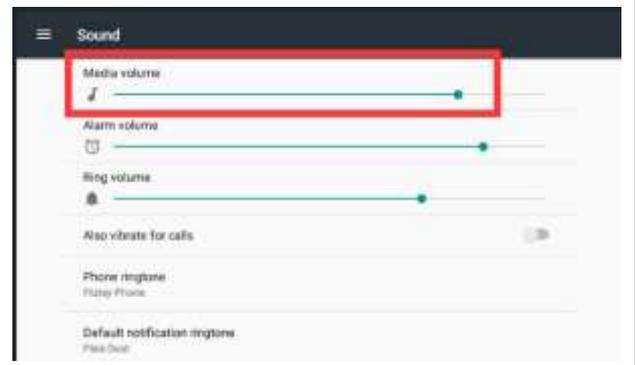
<p>Connect the mouse to Smart Thermal Detector, right-click the mouse to exit the Smart Thermal Detector software to go to the Home screen of the Android system.</p>	
<p>Click on the setting to enter the Android settings.</p>	
<p>Enter Wi-Fi settings.</p>	
<p>Select and enter the required information to connect to the Wi-Fi network.</p>	

Adjust the Sound volume

In Android settings, go into the Volume settings.



Adjust the sound volume of the machine. It is not recommended to adjust to higher than 90% volume.



CMS Cloud control system

Smart Thermal Detector can upload the information to the Cloud CMS system.

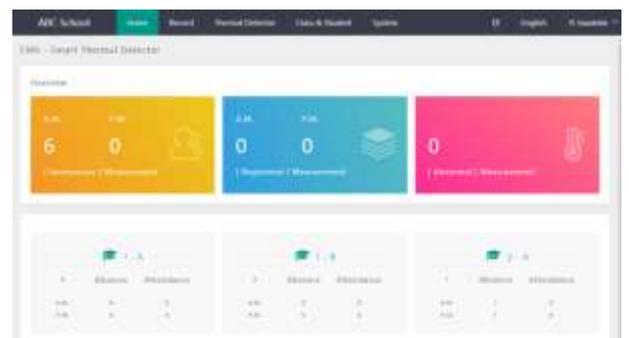
Log-in to the CMS system

Go to <http://admin.hs-cms.net/login.html>

Use the Account and password provided by the supplier to log-in to the CMS system.



After log-in, an overview of the machine under your account will be shown on the main page of the CMS.



Machine Status

Machine Status will show all the Smart Thermal Detector under the user account.

Depending on the installation location, information can be entered into the location field for identifying different machines.

In case of inactivated machine is found, connect the Smart Thermal Detector to the internet and activate it. The inactivated machine will not be able to upload the screening result on the CMS platform.



Record

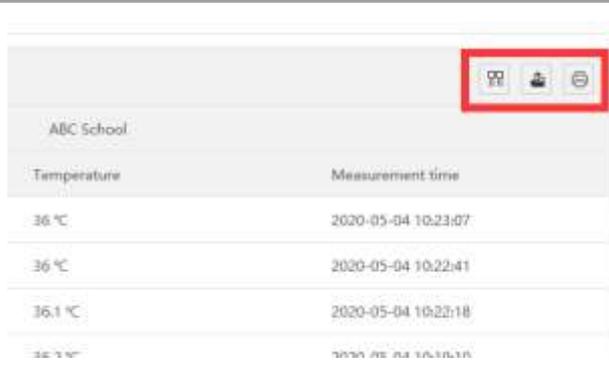
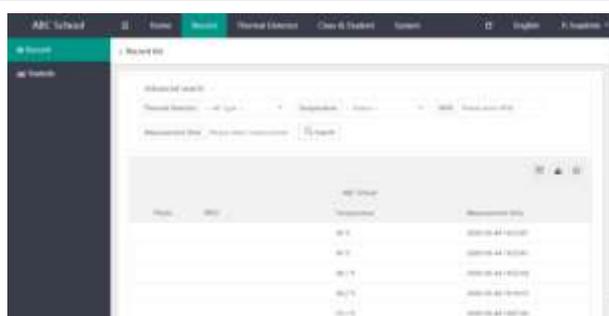
Record will show all of the measuring record measured by the machine under the account.

Depending on the requirement, filtering by the NFC card information / Temperature measuring result / Date & Time to show the desired measuring result.

Measuring record will be saved on the Cloud platform for 1 year, with a maximum record of 1 Million.

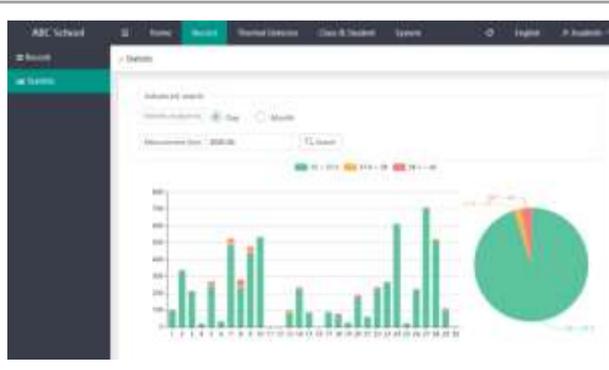
Older data will be deleted in order to store the new data.

After showing the desired result, further actions like Saving as CSV / Excel, printing can be done.

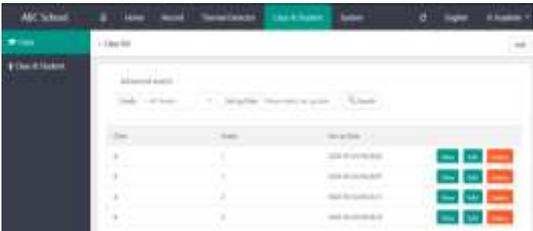
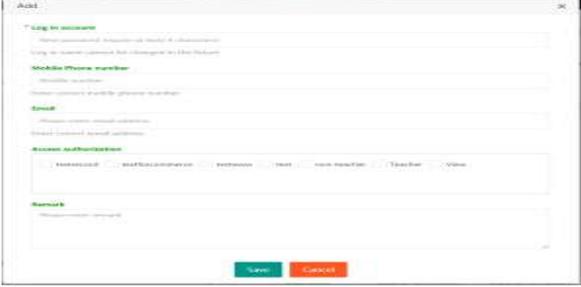


Statistic

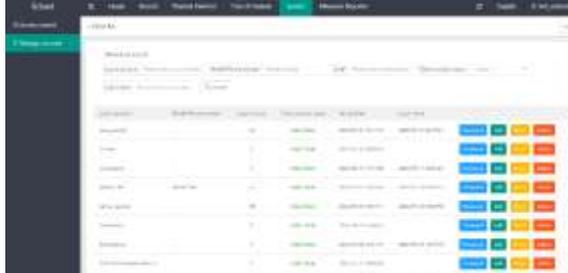
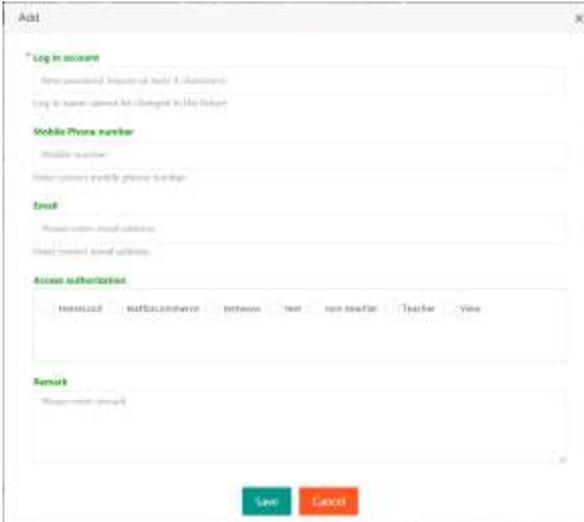
Statistic can show the measuring record with by different grouping method.



Class & Student

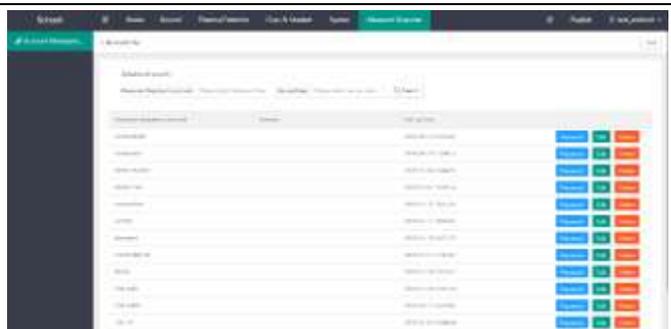
<p>Class management allows admin to create different class to classify students</p>	
<p>Click on “Add” to add new class</p>	
<p>Each class can view student in the class, edit or delete the class</p>	
<p>Student management allows adding students to different classes to monitor their temperature.</p>	
<p>After clicking the “Add” button on the upper right corner, the admin needs to fill in the student information such as their RFID to identify different students.</p>	
<p>Also, we can edit or delete the student information by clicking on the Edit and Delete button</p>	

System Management

<p>Authorization management designed for admin to create different permission to manage the account.</p>	
<p>Click “Add” from the upper right corner to create permissions</p>	
<p>Admin can edit the permission name and remarks. Also, admin can grant users different permissions, block and delete the authorization</p>	
<p>Manage account function is designed for admin to create accounts to their staff and grant permission to them. In this page can view all the staff accounts details.</p>	
<p>Click “Add” to create users to the system</p>	
<p>After clicking the “Add” button, admin needs to input the information of the staff and choose what authorization the staff owns. The authorization can choose more than one.</p>	
<p>After creating account, don't forget to create a password for the users. Also, admin can change the account details, block account and delete accounts.</p>	

Software management (Mobile application management)

In the **Measure Reporter** page, admin can create accounts for the users to let them login. When the machine detects the high temperature, they will have a notification.



Click **“Add”** to create mobile application user.

Add

After clicking on the button, admin need to input the account details.



After created account, don't forget to create a password for the users. Also admin can change the account details, block account and delete account.

Password

Edit

Delete

HANSHIN thermal: Mobile Application Notification

Thermal Detector can upload the record to the smart phone platform

In the home page, users need to login account by inputting the username and password

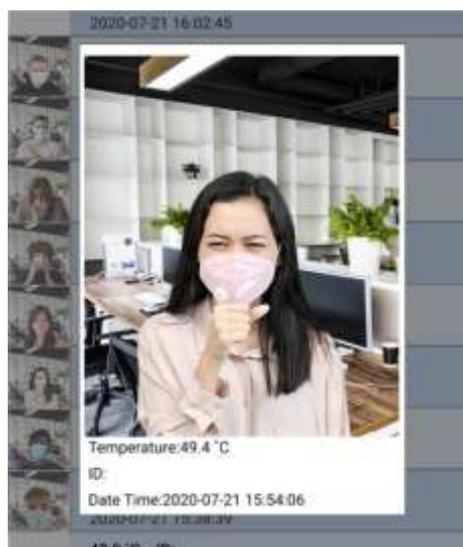


After login to the system, there will be a recycler view to show the record of users who have a temperature over 37.3 degrees in that day.



HANSHIN - Thermal Detector ALERT RECORD			
	37.4 °C	ID: 78654	2020-07-21 16:02:45
	37.6 °C	ID: 78655	2020-07-21 15:54:06
	38.2 °C	ID: 78656	2020-07-21 15:53:56
	38.4 °C	ID: 78657	2020-07-21 15:53:27
	37.4 °C	ID: 78658	2020-07-21 15:53:15
	37.8 °C	ID: 78659	2020-07-21 15:42:41
	37.5 °C	ID: 78610	2020-07-21 15:42:25
	38 °C	ID: 78611	2020-07-21 15:42:15

Users can click on the photo, and then it will enlarge the photo and show the temperature, ID and Date time.

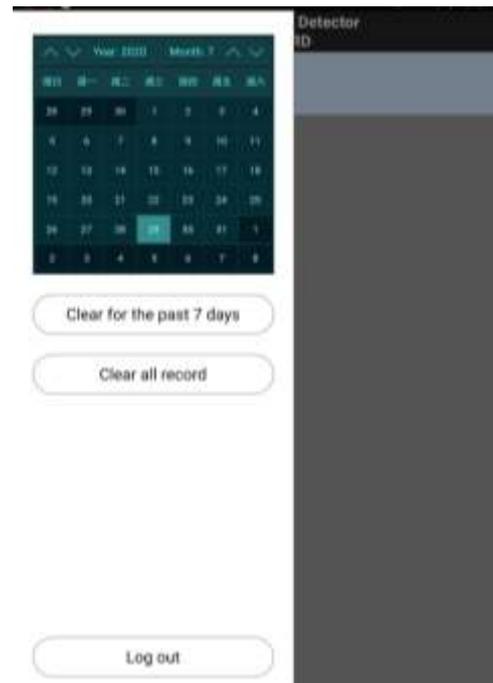


Click on to the upper left corner logo to enter the setting page.

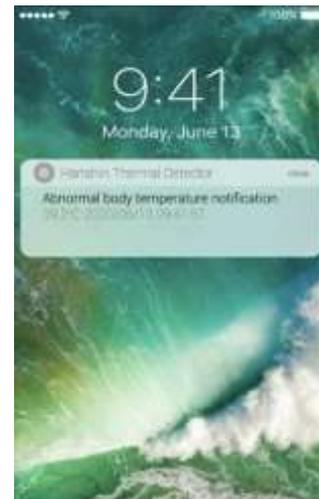


After clicking on the setting page, users can select a specific date to view record.

1. Click on “**Clear for the past 7 days**”, it will clear the record over seven days.
2. Click on “**Clear all records**”, it will remove the record downloaded by the last login account
3. Click on “**Log out**”, it will log out the account

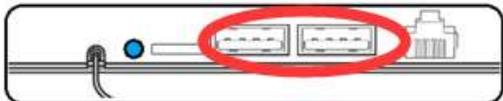


After exiting the software (not logging out), if a record with a measurement exceeding 37.3 degrees appears, a notification reminder will appear in the notification bar



Local Record Exporting

Local record exporting is possible if Smart Thermal Detector is unable to connect to the internet

<p>Insert USB storage device into the USB port of Smart Thermal Detector</p>	
<p>Press export record icon</p>	
<p>Select the date for export and USB folder for exporting, then click “Export”</p>	