



# TD-5702

## User Manual

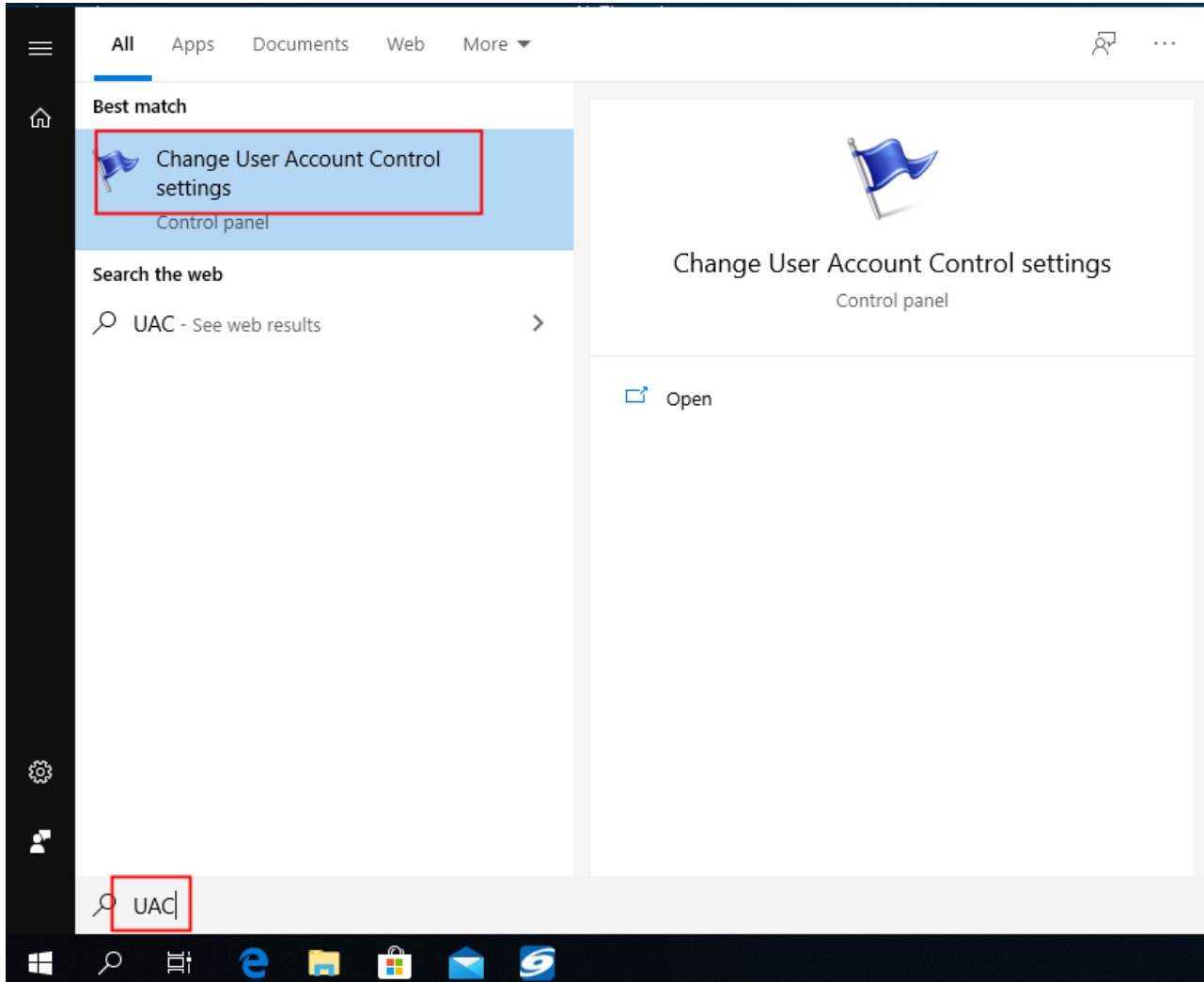
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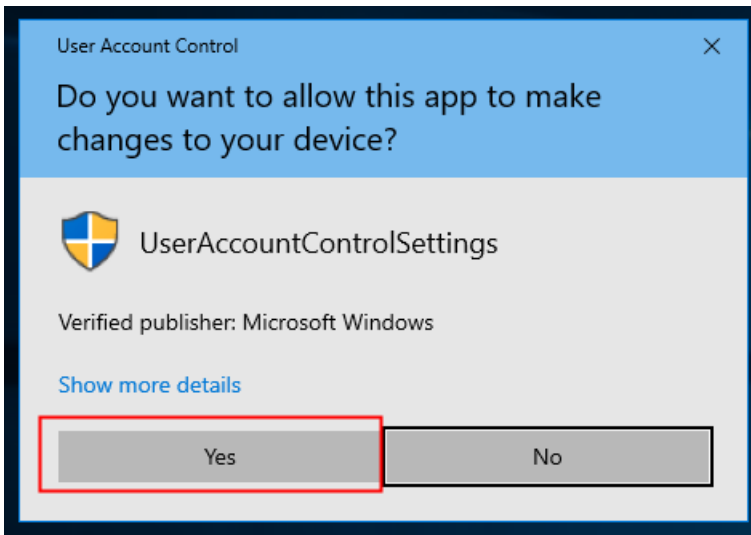
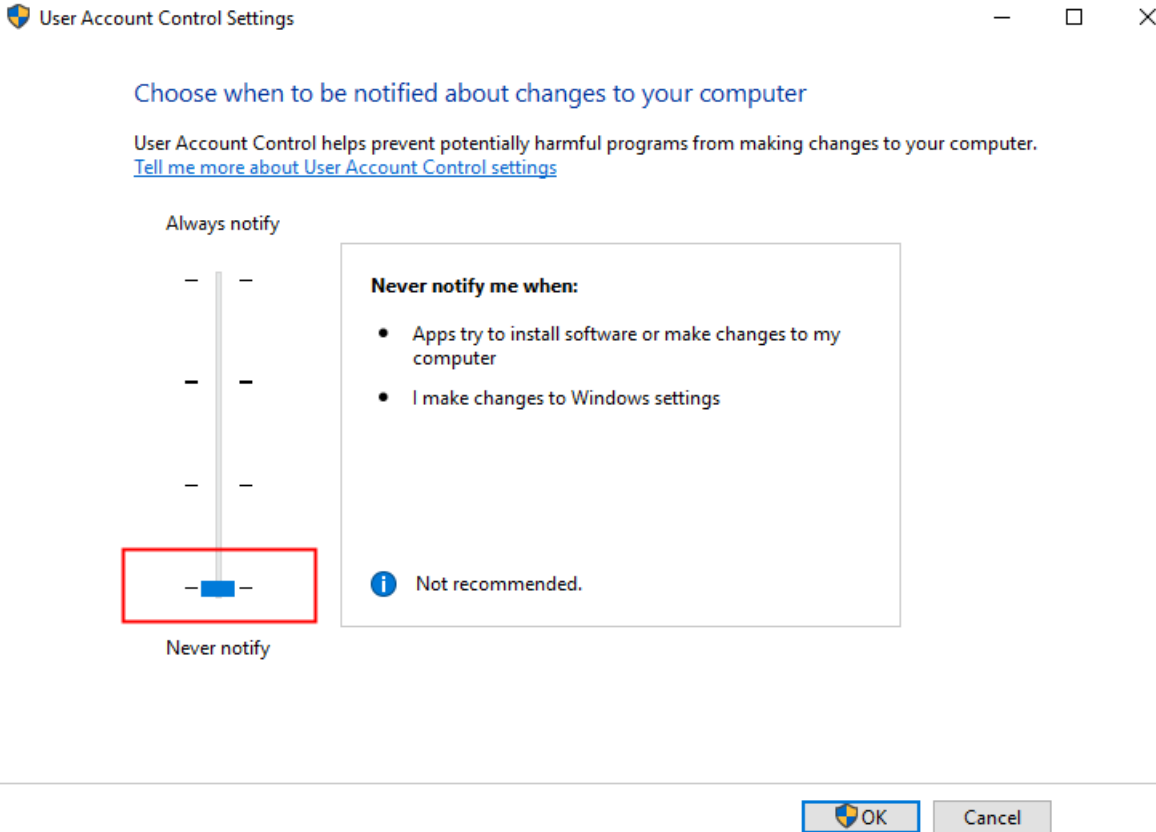
## 1. Windows System Setting

### 1.1 Change User Account Control (UAC)

Search "UAC" from the Windows

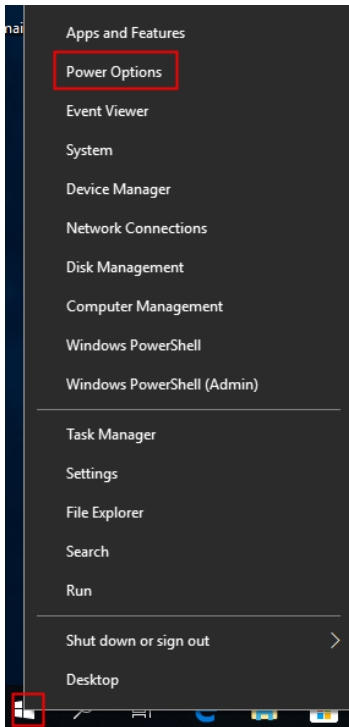


Adjust to “Never Notify” on User Account Control Setting, then click “OK”. After that, it will pop-up the message to allow this app to make changes, please click “YES”.

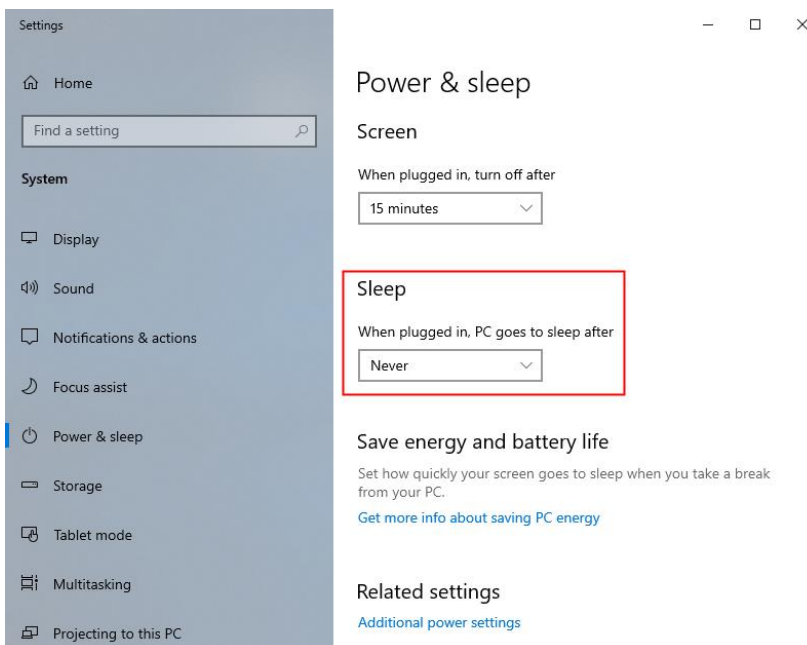


## 1.2 Setting Power Management

On the Windows Key, click [Power Options]

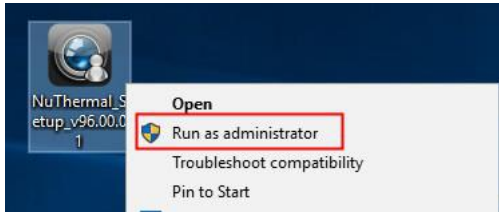


Set the sleep start time to [Never]



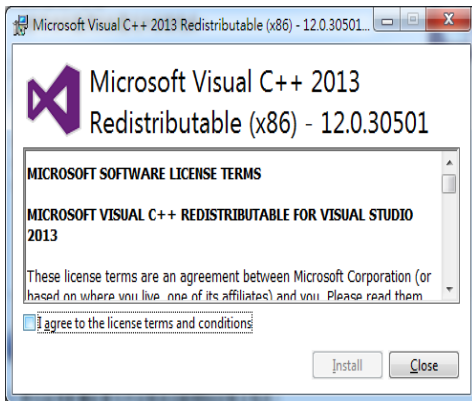
## 2. NuThermal Software Installation (First-Time Installation)

Right click and Run as administrator in NuThermal Software “NuThermal\_Setup\_V96.00.001 ”



((Note: The software is mainly based on the shipping version))

Please follow the steps, four components will be added in the first-time Installation: NET Framework 2.0, Visual C++ 2008/2013/2015. And check the agreement of license terms and conditions, then press “Install” it.

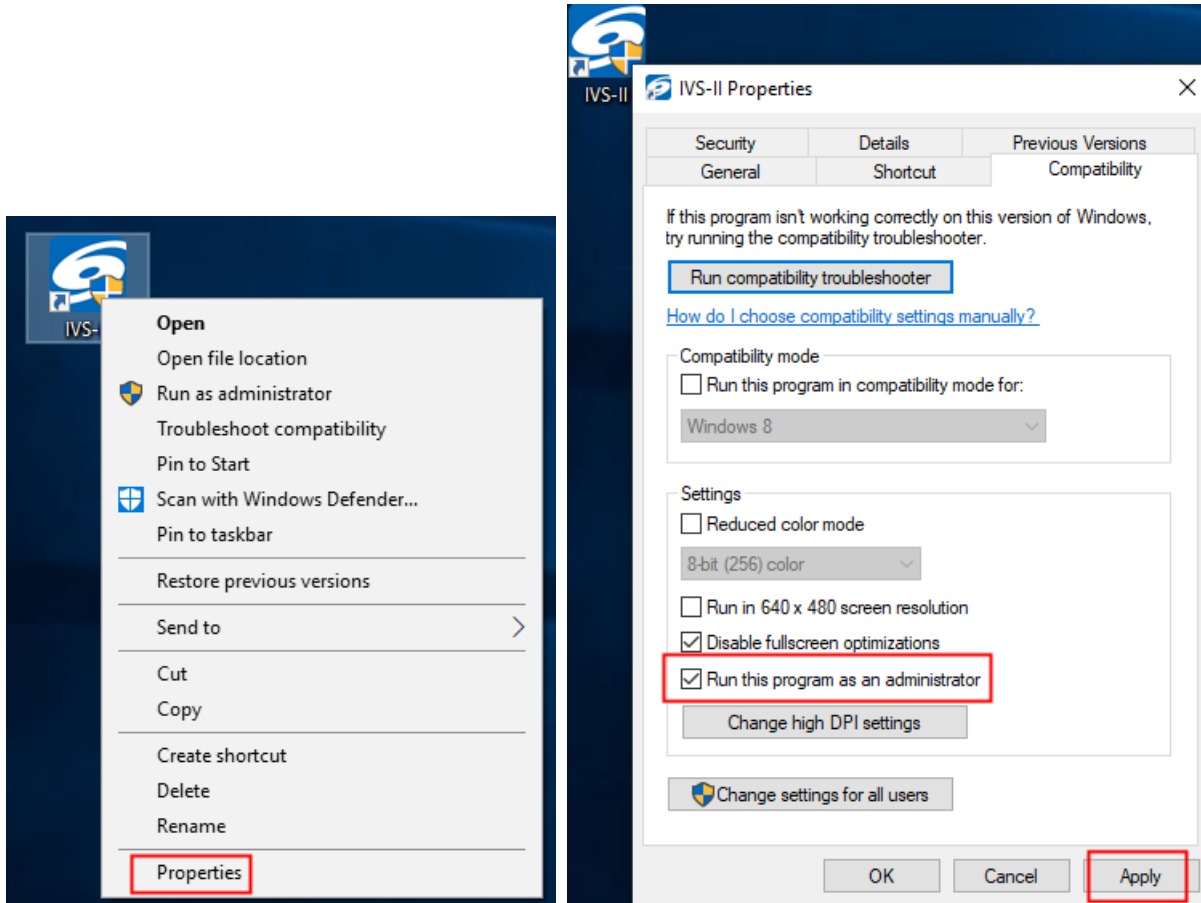


After completing the V C++ Installation, click OK to process the installation of IVS-II. If it still has the error message appear you install all of V C++, please ignore it and go back to the last screen, complete the steps directly.

Please follow the steps to click “Next” until the end of the installation.

Right-click on the shortcut to generate IVS-II on the desktop and select the content. Click on Compatibility to run this program as the system administrator.

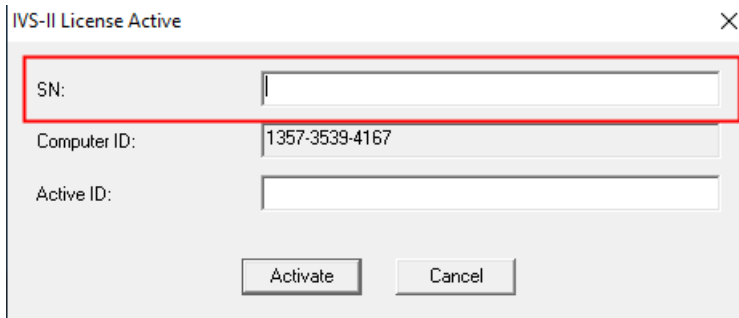
Check and apply, then click OK.



### 3. IVS-II License Activate

After completing the installation of IVS-II, the system will pop up a message window automatically, asking to user to activate the IVS-II authorization code.

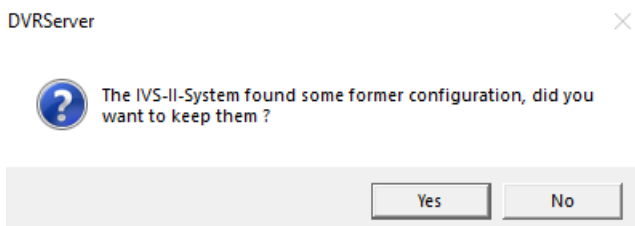
(Note: The serial number SN is subject to actual shipment)



To activate the software will require the access privilege to be granted. There are "Mini ASP Web Server", "DVR Server" and "Upgrade Server.ex\_" respectively, please click Allow Access to confirm by the requirements.

(Note: Please add these three executable files to the exception, if there are anti-virus software)

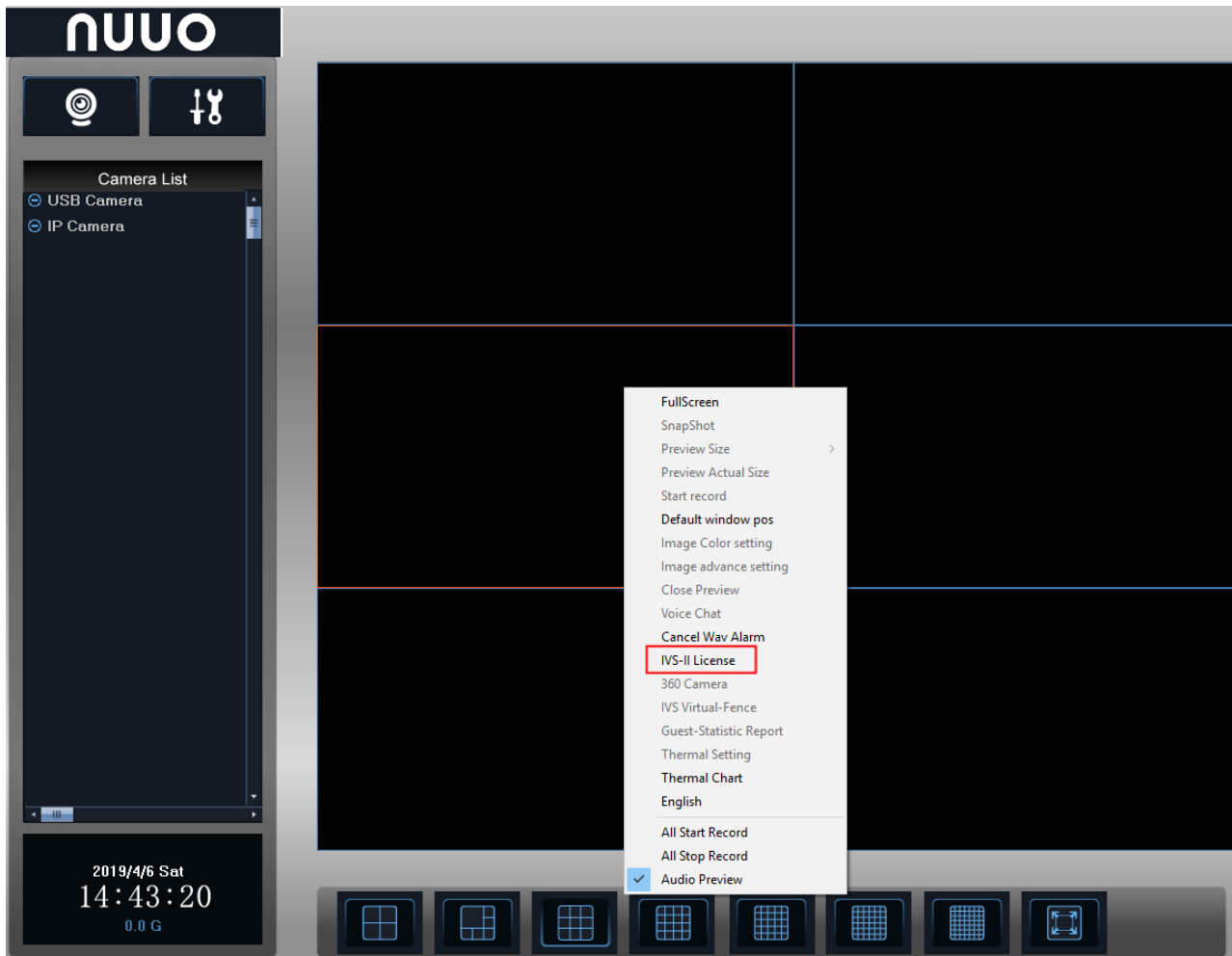
During the initial installation and reinstallation, the software will ask if you want to keep the previous settings. For the initial installation, the user can select "NO" to clear the sample configuration.



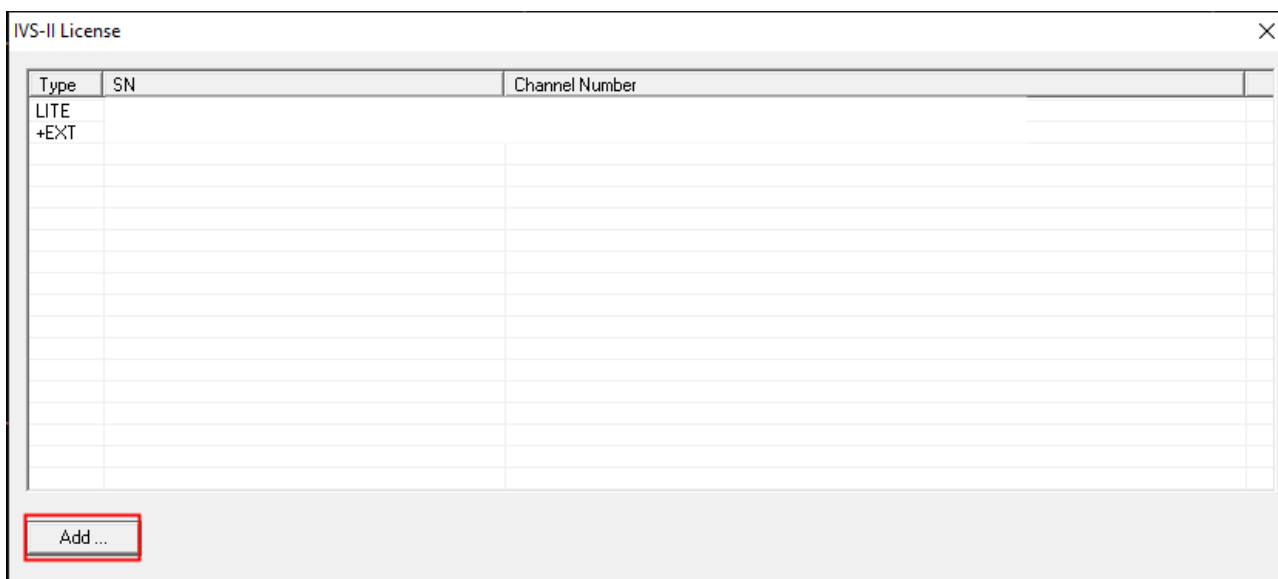


Firstly, create a Thermal license after entering the software. If you skip this step, it won't be able to start the thermal imaging lens.

A) Right click on the monitoring screen and click the IVS-II License authorization code to register.



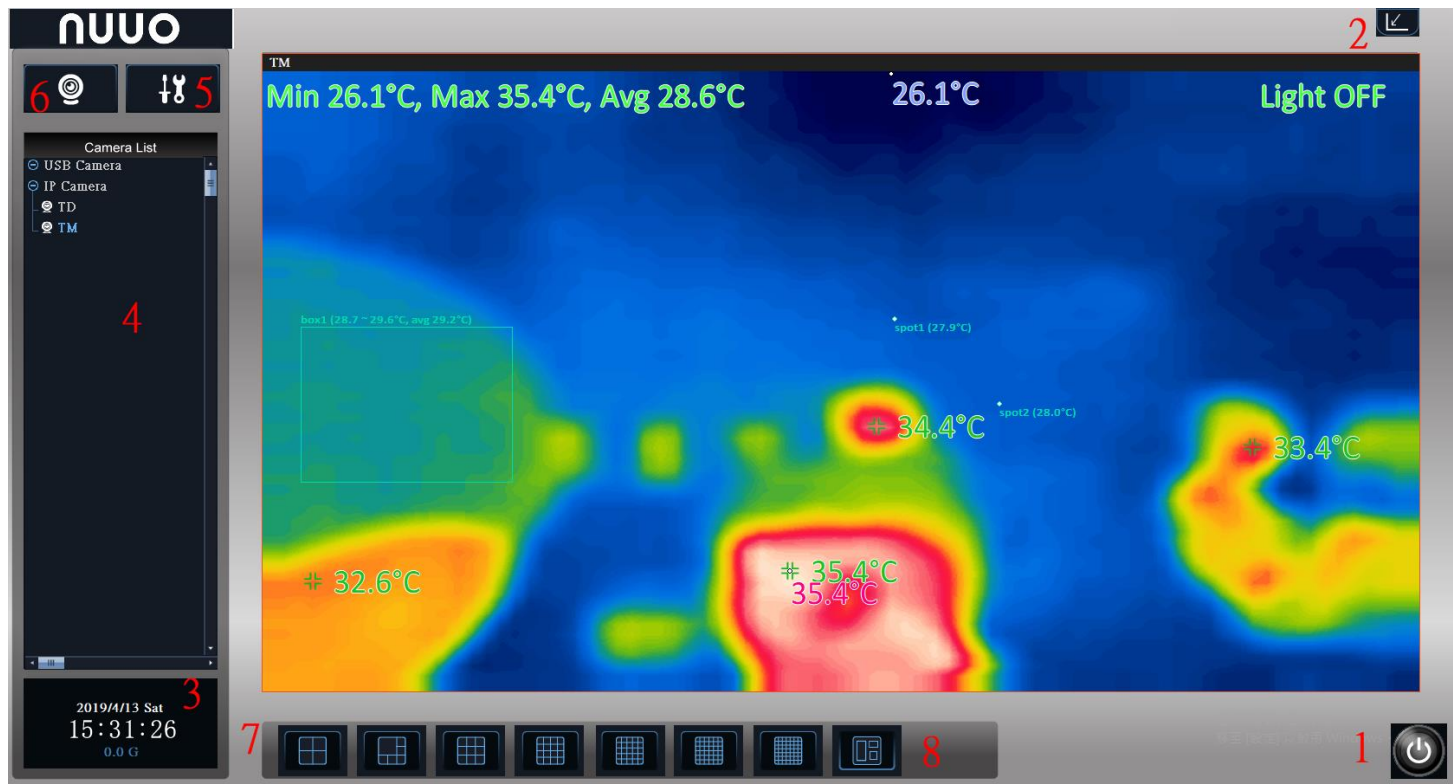
B) Press [Add]



## 4. VS-II The Operation Interface of the main program system

### 4.1 The System Interface

The screen resolution cannot be lower than 1280x720, the best resolution is 1920x1080, click the desktop shortcut icon to automatically load and display the operation interface as follows:



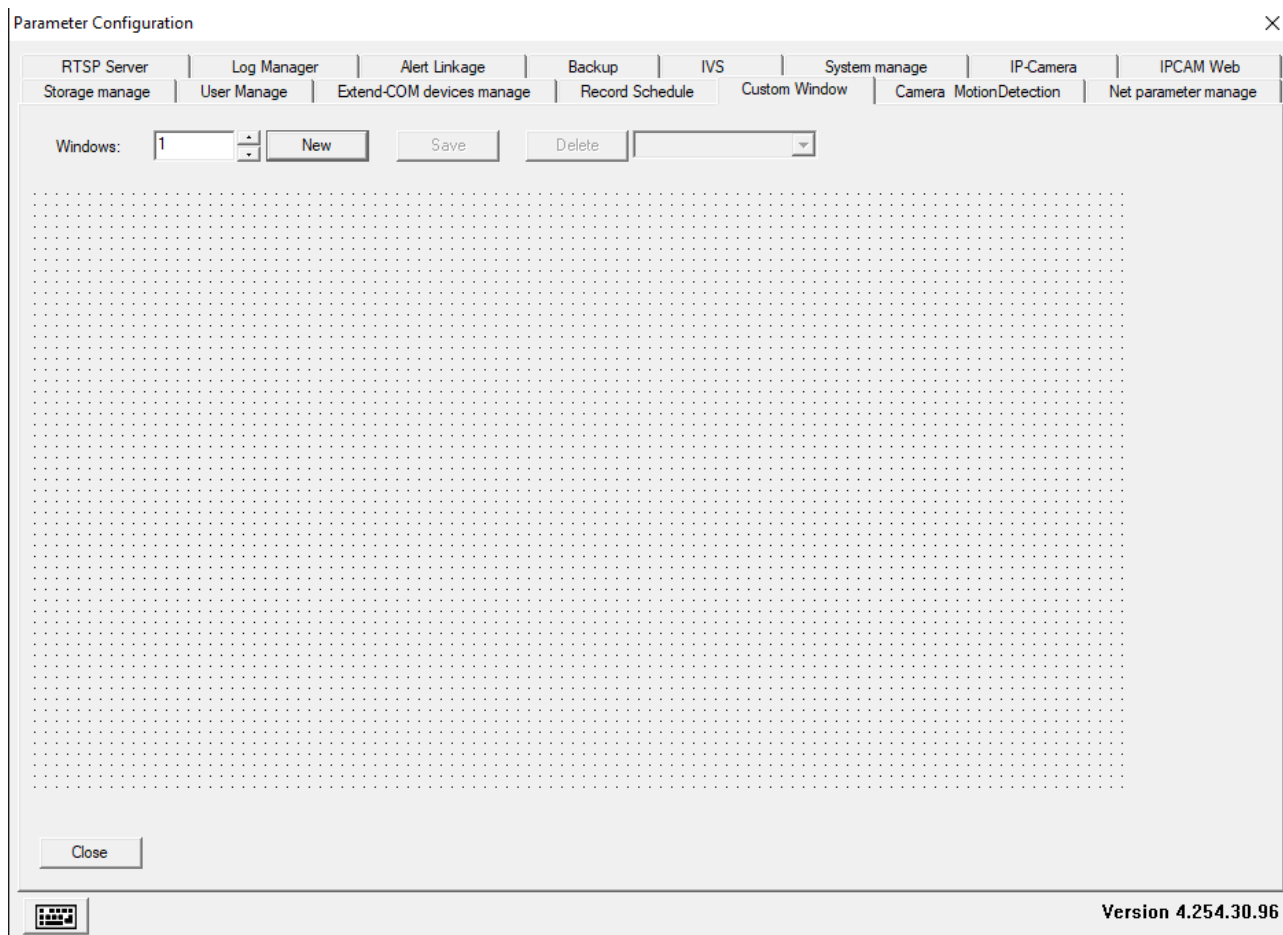
Number	Function	Details
1	Drop Out 	Re-login / leave system / lock system
2	Shrink Window Key 	Reduce the IVS-II main system interface to the toolbar
3	Date/Time/Disk Space 	Display system time, date and the usage percentage of disk space

4		Sort USB / IP cameras alphabetically by camera name
5	<p>Setup</p>	Enter the system setting function interface
6	<p>Playback</p>	Play ordinary video files / play linked video files / play 360-degree camera video files
7	<p>Preview split mode</p>	4/6/9/16/25/36/49/64 Split mode selection and switching
8	<p>Full screen/custom split screen</p>	Make the preview pane full screen, or execute the option to customize the split screen in the system setting function.

## 5. The System Setting

### 5.1 Optional screen splitting method

Click to select the page split mode tab:



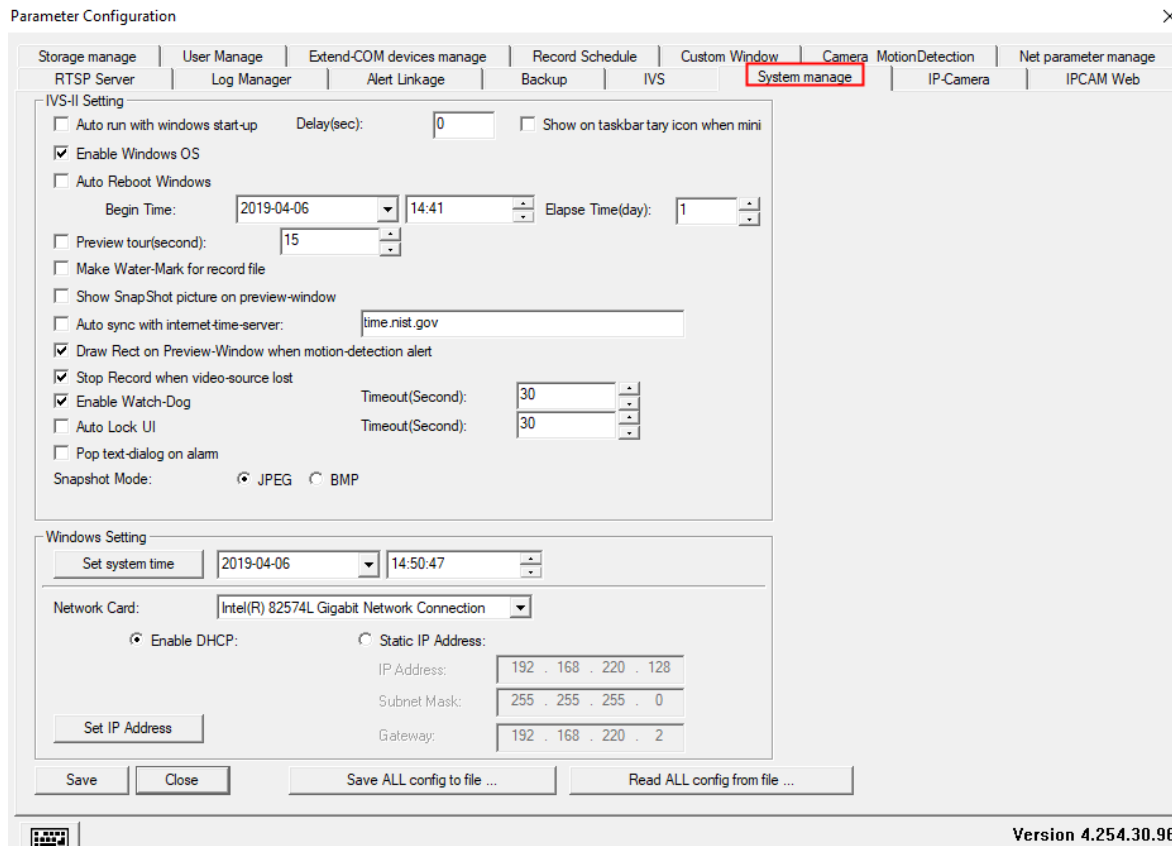
Create a new screen split method: select the number of shots and press [Create] to generate the corresponding number of panes, use the mouse to drag and drop the size and position of the panes according to the needs, then click [Save] to enter the name to complete the screen The establishment of split mode, up to 7 groups

Delete the screen division method: select the name of the division method to be deleted, click [Delete] to complete

(Note: When there are more than one set of self-selected screen division methods, the user must choose from the options on the main system operation interface)

## 5.2 The System Setting

Click the System Settings tab :



**Auto run with windows start-up:** The system will automatically load and execute when the host restarts

**Show on taskbar tary icon when mini:** to avoid the system being shut down accidentally

**Enable Windows OS:** When disable the function, the host will automatically restart when user log out the system. It is a limitation for user who operating the system alone.

**Auto Reboot Windows:** Set up the Begin Time and Elapse Time to restart the host at a scheduled time

**Preview tour(second):** The camera can be switched in sequence by selecting split window type at the fixed time

**Make Water-Mark for record file:** To prevent the video data from being tampered after exporting.

**Show Snap Shot picture on preview-window:** To preview the photo content in the lower right corner of the screen. It's beneficial to user confirm the photo is valid directly.

**Auto sync with internet-time-server:** To set the synchronization server other than the host system time

**Draw Rect on Preview-Window when motion-detection alert:** The red frame indicates the detected dynamic area, so that the user can immediately get attention to the location of the event

**Stop Record when video-source lost:** Save system resources

**Enable watch-dog:** Set the enable time

**Auto Lock UI:** Set the lock time to prevent users forgetting lock the system from being invaded

**Pop text-dialog on alarm:** Strengthen the prompt alert event

**Snapshot Mode:** Optional JPEG / BMP format

**Windows setting:** Click [Set system time] to modify the host system time

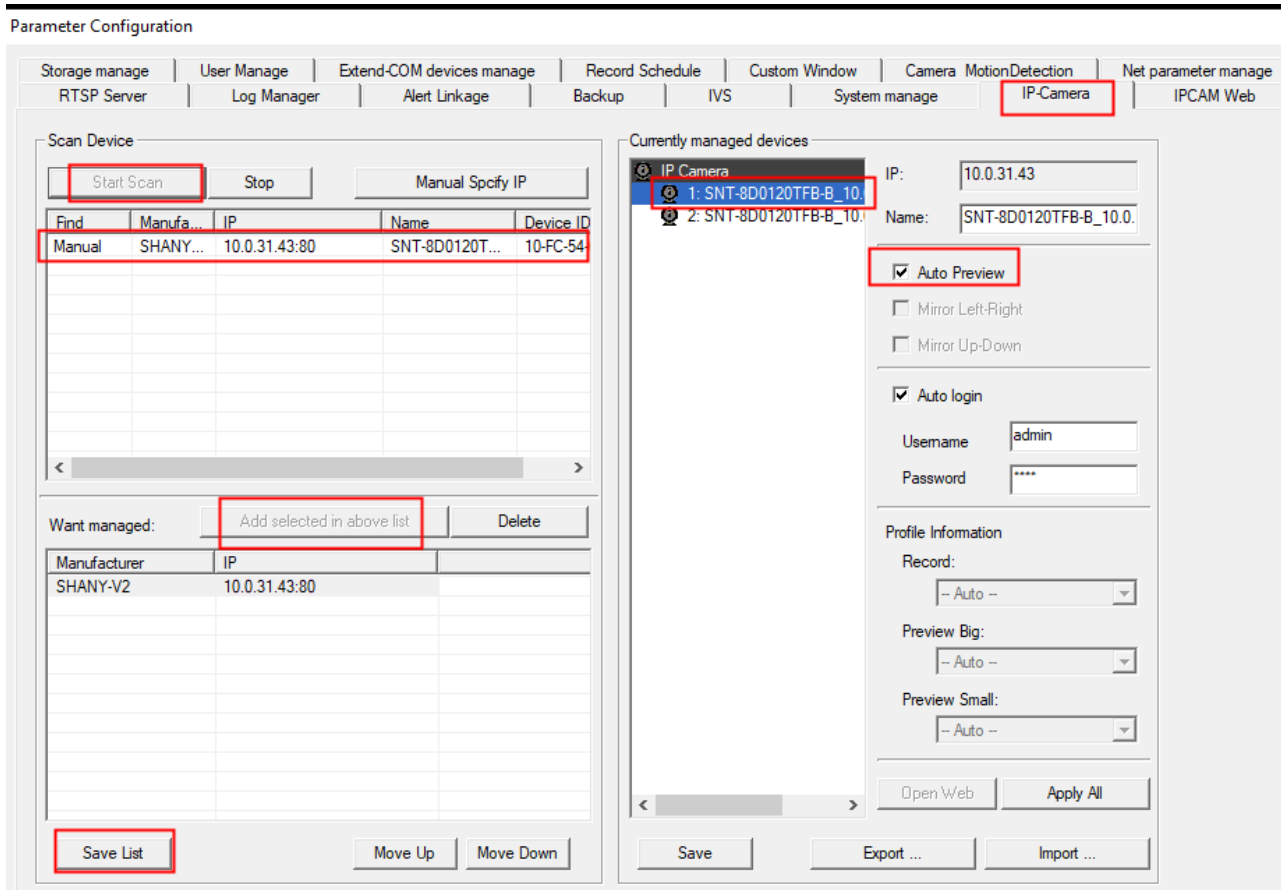
**Network Card:** Select network card and Static IP address

**Save All Configurations to file:** All configurations in IVS-II settings can be exported

## Read All Configuration from file: Import configuration file into IVS-II

### 5.3 Add IP camera/Thermal camera

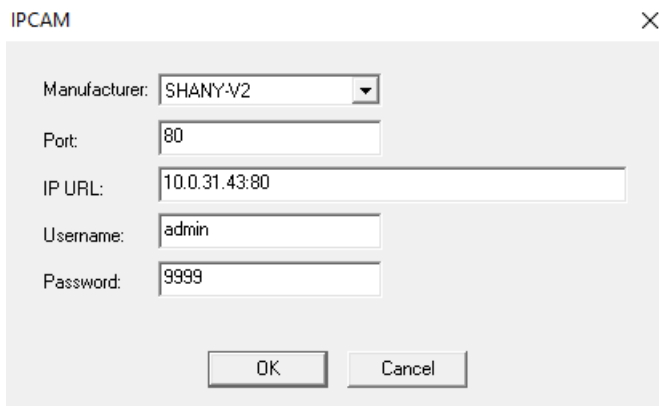
Click the IP-Camera



Click [Start Scan], it will search cameras automatically if the camera is supported by ONVIF / SHANY protocol.

Moreover, it can manually assign the IP address, please chose SHANY-V2 for the Manufacturer Model.

The default IP of TD-5702 is 192.168.1.168. The Account and password are admin / 9999



Select the manually added / automatically searched IPCAM that you want to manage, and click to add it to the management list. The system will ask you to log in to the camera account password for camera connection management. After the completion, you can see the list of cameras successfully connected and logged in on the main interface of the software. (See Form 4-1 Form No. 5)

## 5.4 Alert Linkage Setting

Click Alert Linkage Page :

Parameter Configuration ✕

Storage manage | User Manage | Extend-COM devices manage | Record Schedule | Custom Window | Camera MotionDetection | Net parameter manage  
RTSP Server | Log Manager | **Alert Linkage** | Backup | IVS | System manage | IP-Camera | IPCAM Web

### Alert Linkage Setting

Enable	Device	Source	Linkage	Remark

< \_\_\_\_\_ >

Add   Delete   Modify

### Combination Options

Combination Seconds:

### Email Setting

SMTP Server: <input style="width: 150px;" type="text"/>	Port: <input style="width: 50px;" type="text" value="25"/>
Security: <input checked="" type="radio"/> None <input type="radio"/> TLS <input type="radio"/> SSL	<input type="button" value="General &gt;&gt;"/>
Username: <input style="width: 150px;" type="text"/>	Password: <input style="width: 100px;" type="password"/>
E-Mail From: <input style="width: 150px;" type="text"/>	<input type="button" value="Test"/>

If you expect to receive an email when an alarm be triggered, please configure the SMTP Server on this page and test the email delivery correctly.

## 5.10.1 Add the Alert Linkage

Click [Add], the "Edit Linkage Action" setting interface appears

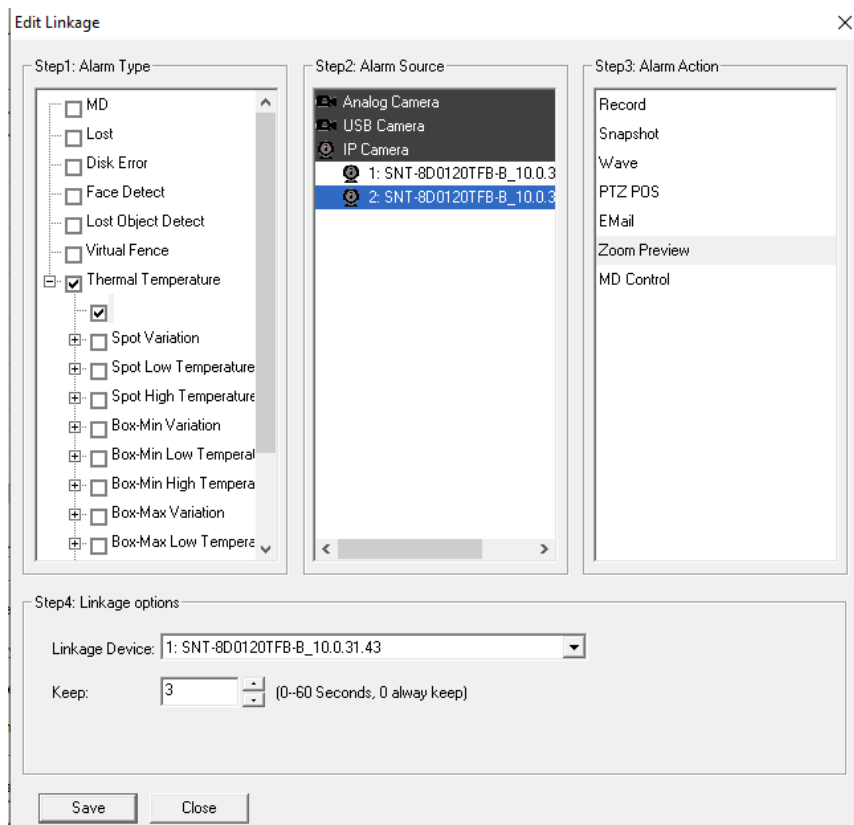
Step 1: Select the Alarm Type: Thermal Temperature + Thermal event (the blank space)

Step 2: Select the alarm source and the specify Thermal camera

Step 3: Select the linkage action after triggering the alarm. It is recommended to use the Wave or Zoom Preview

Step 4: The related alarm screen and select the general image camera. The alarm will be triggered when the temperature exceeds the warning value.

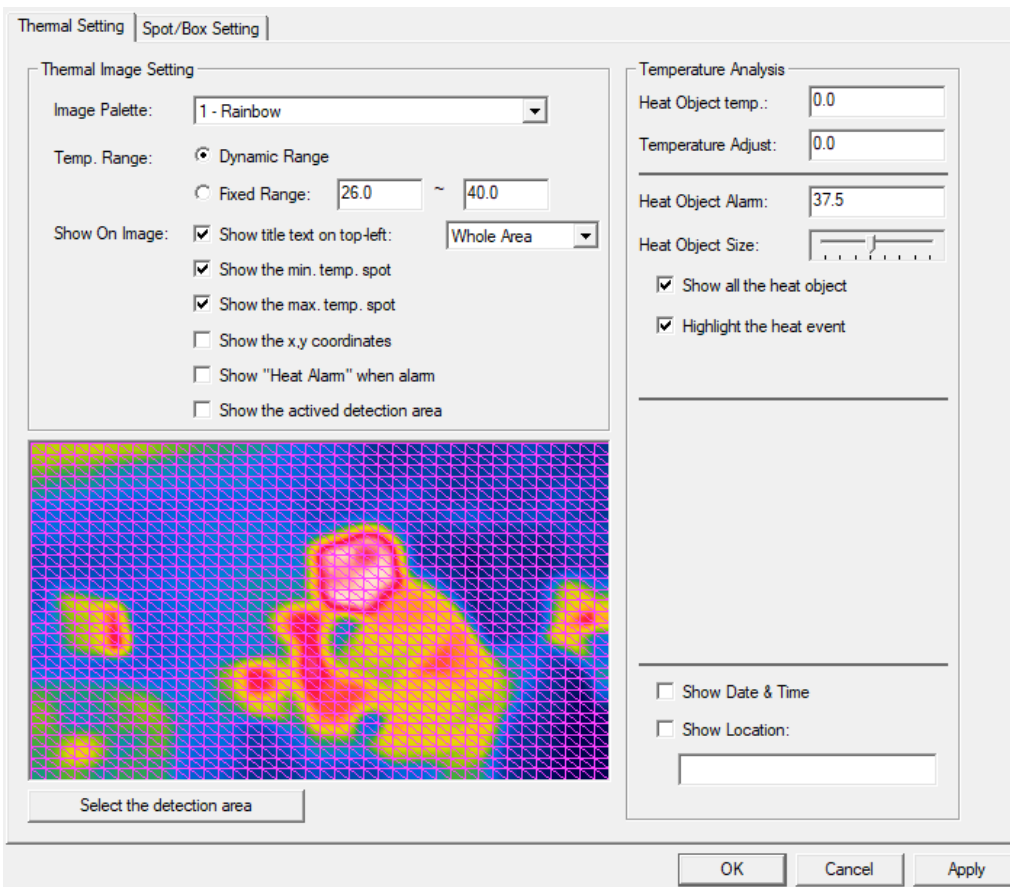
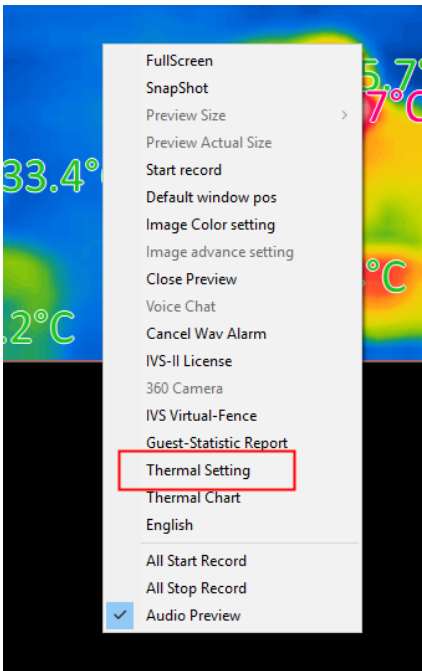
Step 5: Click [Save] to keep the parameters





## 6. Thermal Image

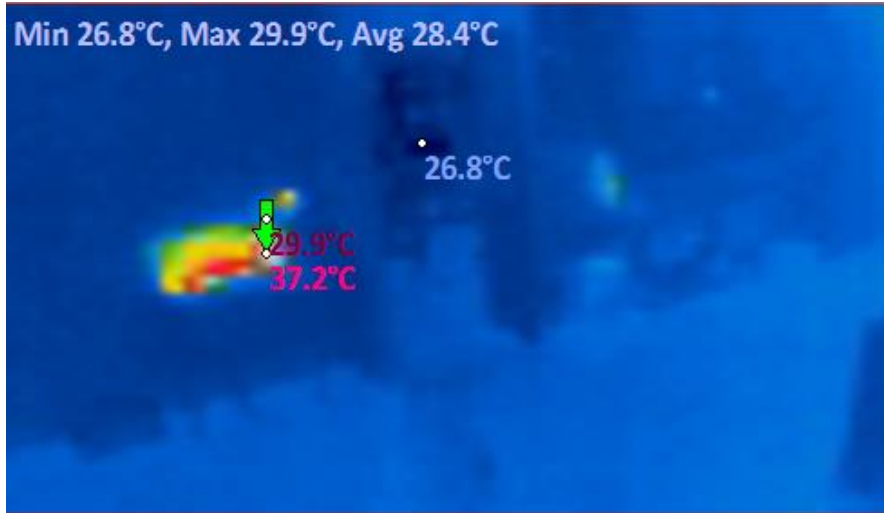
### 6.1 Thermal Image Setting



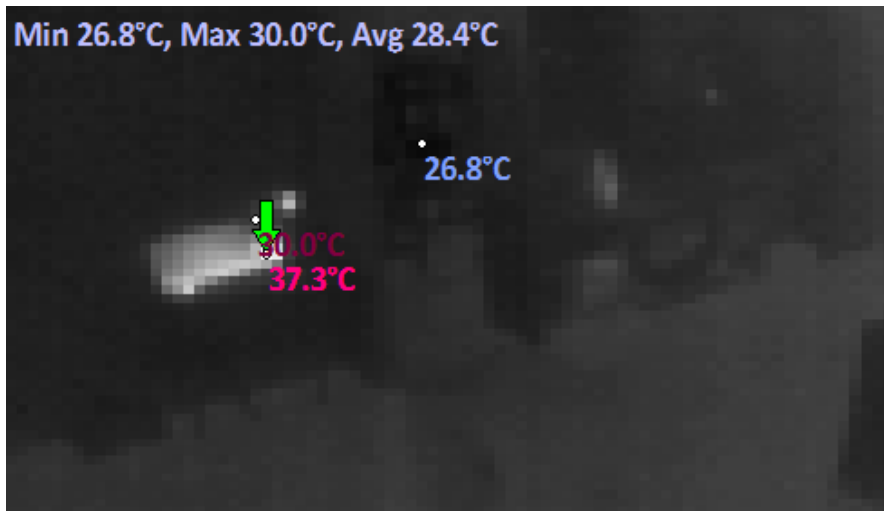
Thermal image setting:

Display color system: can be divided into three color systems

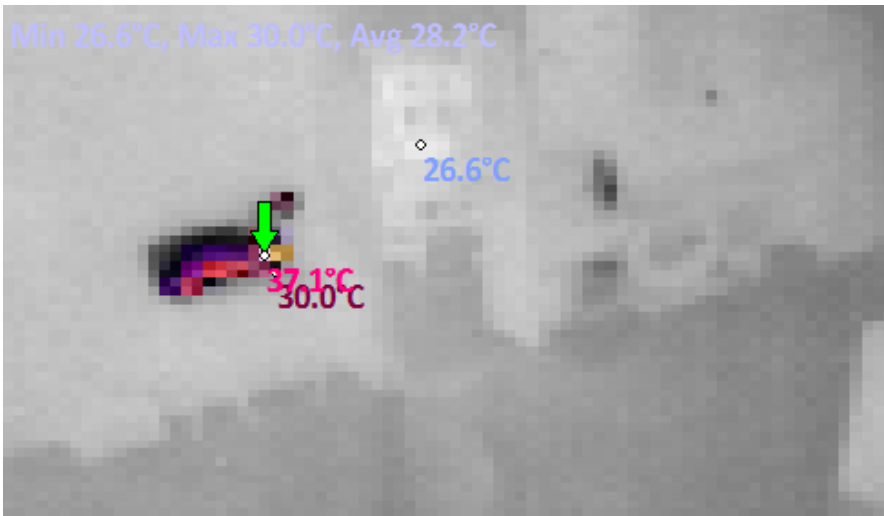
Rainbow



Grayscale

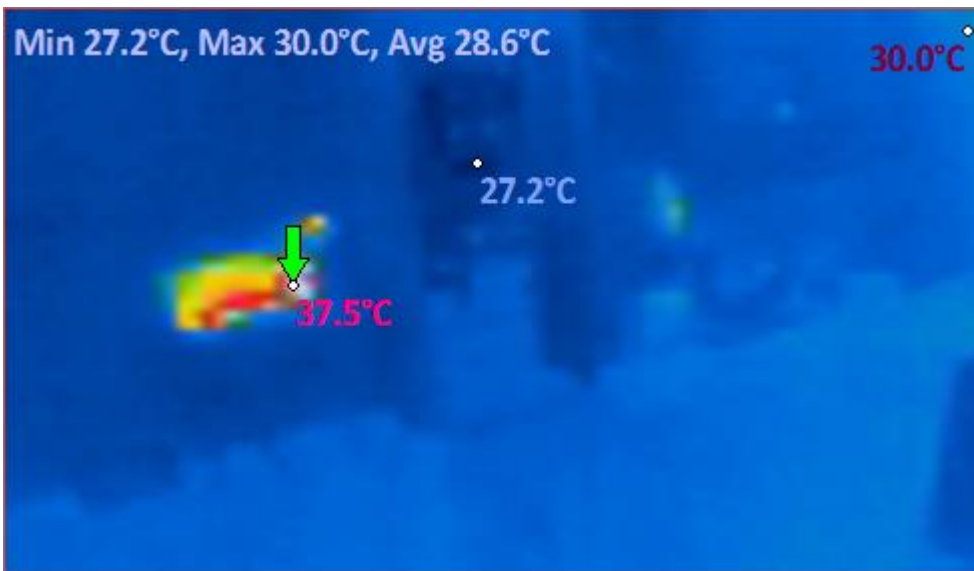


Ironblack



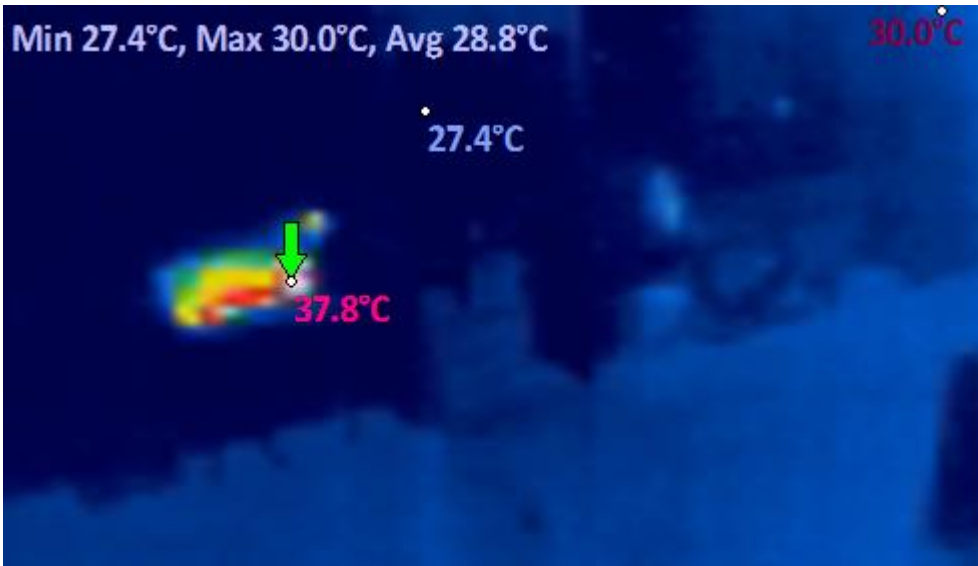
Temperature range display: represents the different color scale (depending on the vary color system)

Selecting dynamic adjustment will be changed due to the moving of the camera. As shown below:




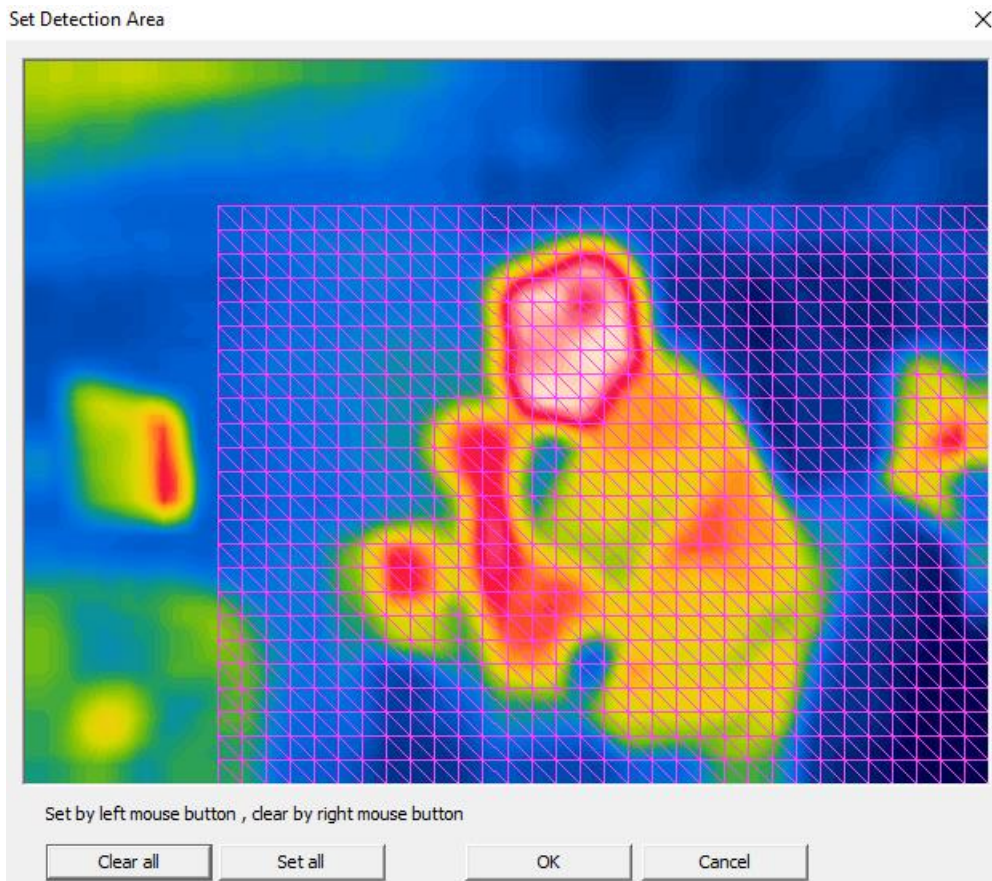
Select the fixed range and set up the minimum to maximum temperature value.





Select the detection area: Set by left mouse button, clear by right mouse button.

 means detection area



Temperature analysis:

Heat Object temperature: it will display when the heat source reaches the setting temperature (the heat source temperature should not be lower than the ambient temperature)

Environment temperature value: set the highest critical value of the ambient temperature

All heat sources: Combined heat source temperature. It will be displayed as long as this temperature is exceeded

Enable heat event: After enable, the threshold value of the heat source temperature will be recorded

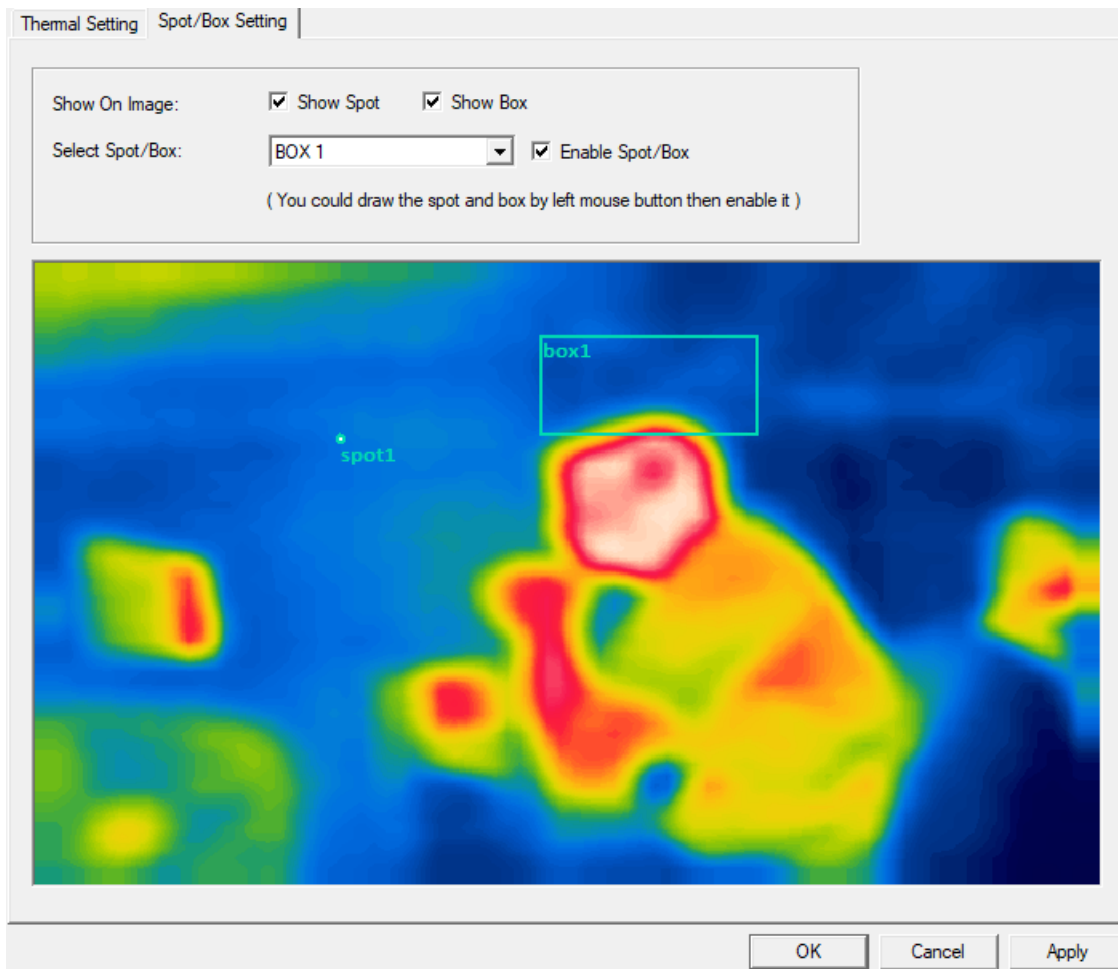
Enable environment temperature monitoring: the default value is checked, the highest heat source will be the highest value

## 6.2 Spot/Box Setting

Show On Image: Show Spot / Display Box, as shown below:

Select Spot/Box: Set the Spot position and Box area in the drop-down menu, as shown in the figure below:

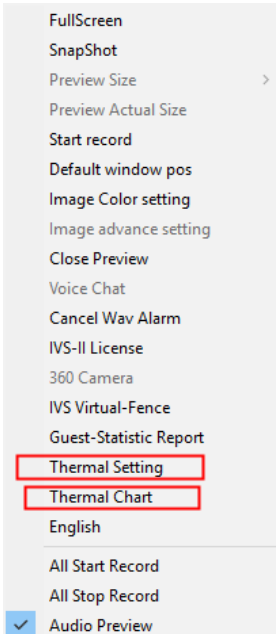
To check and enable different Spot / Box separately.



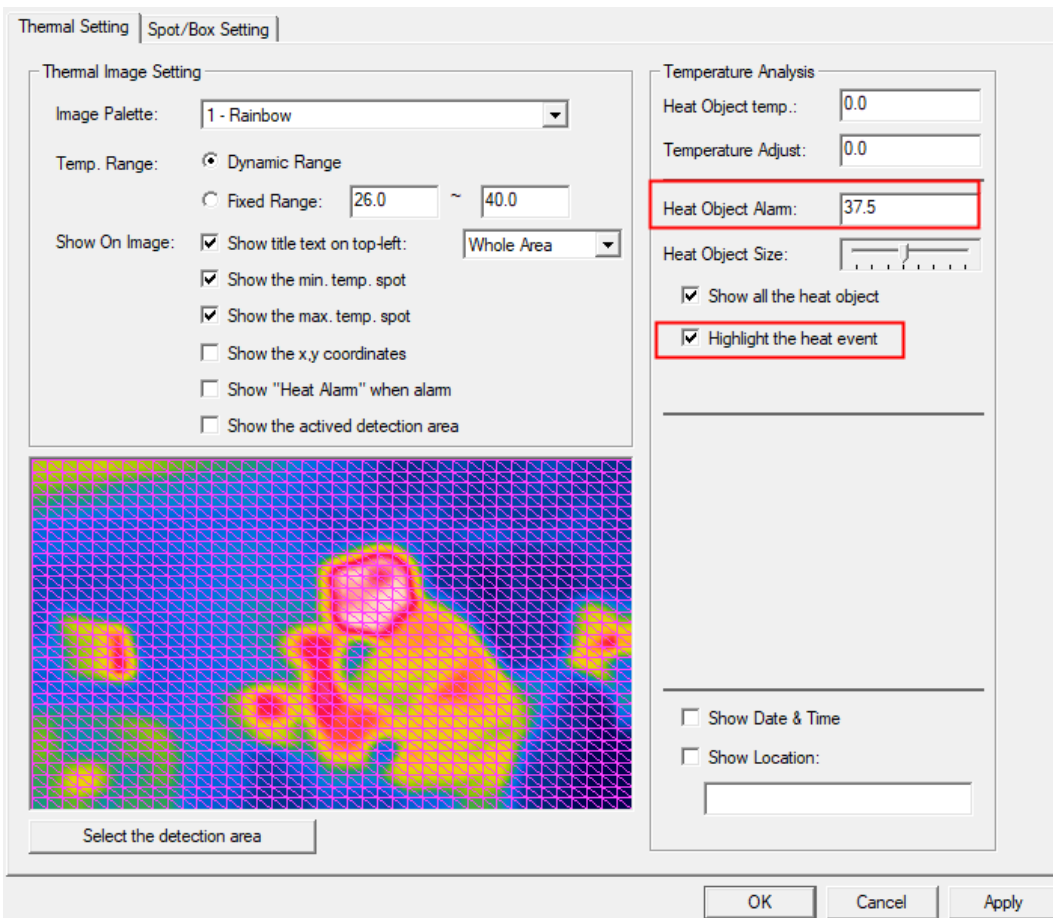
## 6.3 Thermal and Alarm View Setting

### 6.3.1 Thermal Event :

Right click the mouse on the thermal imaging monitoring screen, then entering the thermal imaging setting page.



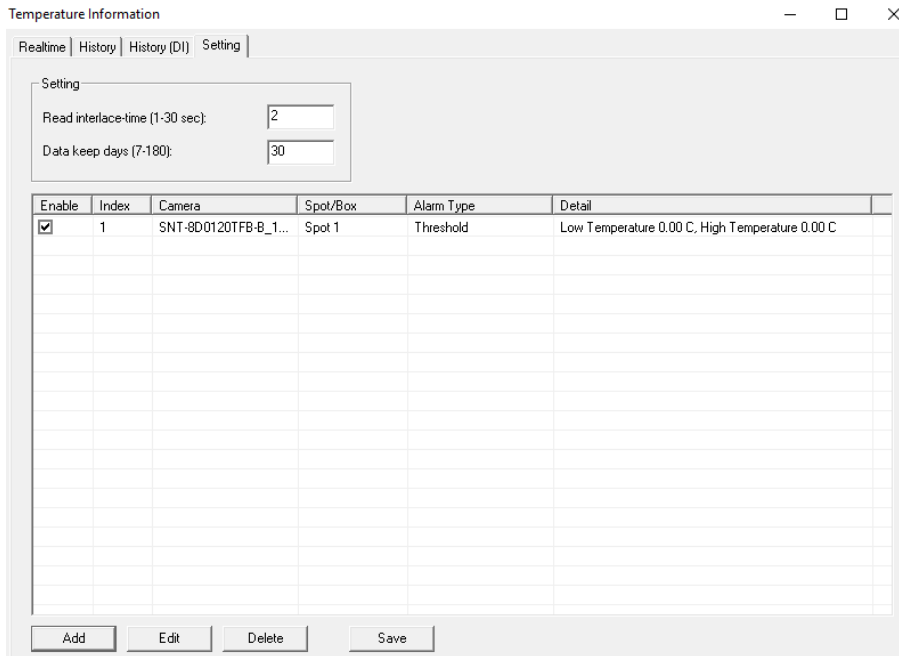
Set the heat object alarm and enable the highlight heat event.



## 6.3.2 Temperature change alarm setting:

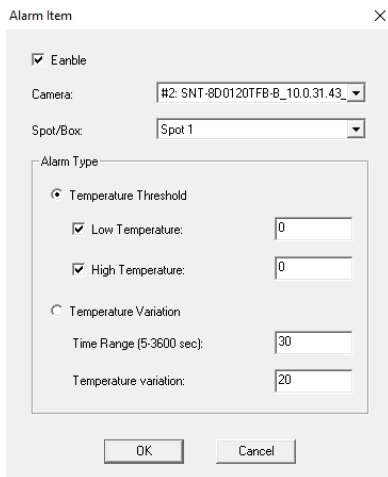
As shown in 6.3.1, click to enter the Thermal Chart page

Switch to the alarm temperature setting page, add a temperature alarm and check enable



Select Spot1 or Box1 (Min / Max / Avg) from the drop-down menu,

Then select the following two alarm categories for advanced adjustment, as shown in the figure below.



Temperature warning line:

Low temperature warning line / high temperature warning line can set the temperature value separately to trigger the alarm

The amount of temperature change in unit time:

Set the time range in seconds, then enter the temperature change value to trigger the alarm

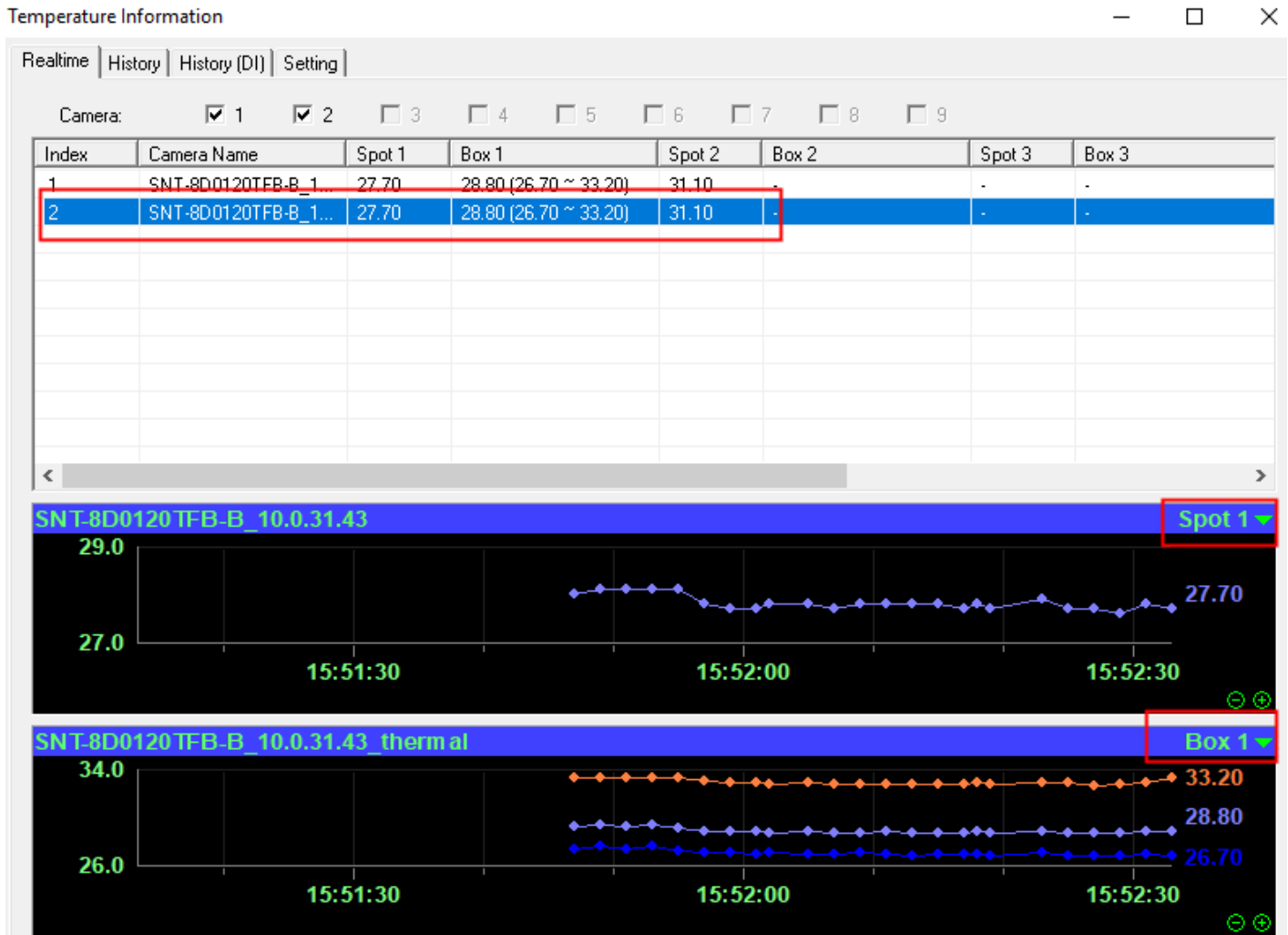
The detailed information of the above settings after adjustment can be viewed from the list below, and the selected number can be enabled, edited or deleted separately.



## 6.4 Thermal Image

### 6.4.1 Realtime :

Move the mouse cursor to the time point in the screen to display the real-time maximum / minimum / average temperature data of the previously set Spot / Box (switched at the red frame at the bottom right of the screen)





## 6.4.2 History :

Move the mouse cursor to the time point on the screen to display the highest / lowest / average temperature data of the Spot / Box history previously set. Select a specific date from the calendar on the right side and export it as a .csv file.

Temperature Information

Realtime History History (DI) Setting

Camera

- #1: SNT-8D0120TFB-B\_10.0.31.43
- #2: SNT-8D0120TFB-B\_10.0.31.43\_thermal
- #3
- #4
- #5
- #6
- #7
- #8
- #9

2019年4月

週日	週一	週二	週三	週四	週五	週六
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

今天: 2019/4/6

Export...

SNT-8D0120TFB-B\_10.0.31.43 Spot 1

SNT-8D0120TFB-B\_10.0.31.43\_thermal Box 1

## 6.3.3 Alert Data Setting :

The interval between reading the temperature and the number of days to retain the temperature data can be adjusted separately, as shown in the figure below.

Temperature Information


Realtime History History (DI) Setting

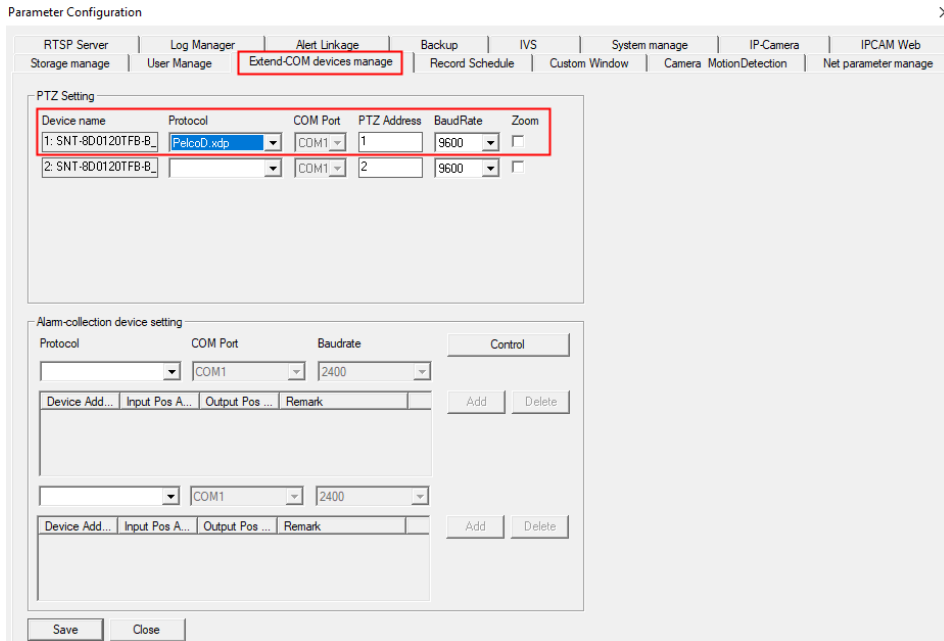
Setting

Read interlace-time (1-30 sec): 2

Data keep days (7-180): 30

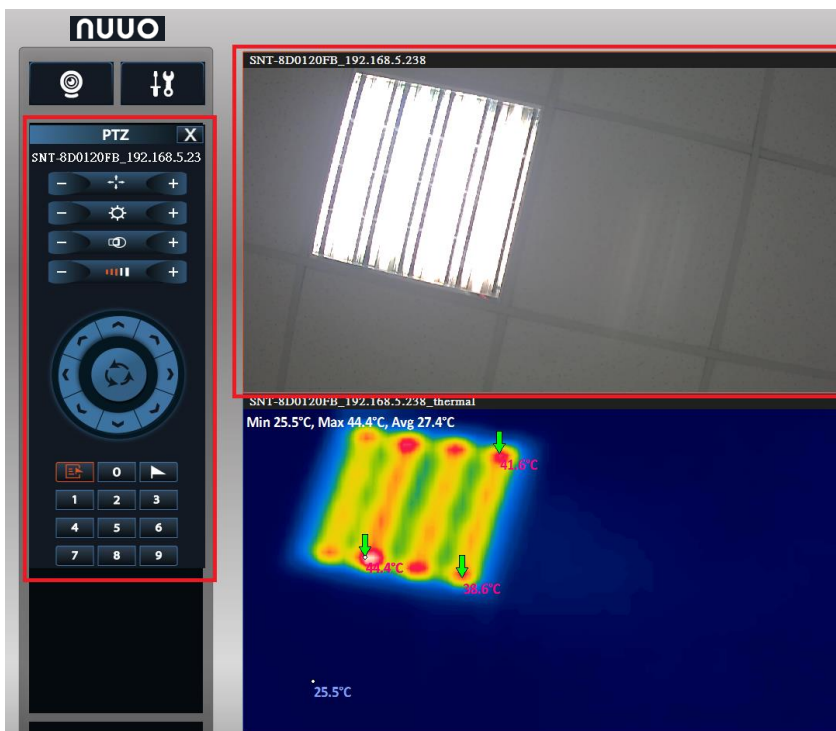
## 6.4.3 White LED linkage setting :

First, Click  to enter the setting page, chose the device management and find the general lens of Thermal Camera. Finally, turn the rotary table model kiosk into PelcoD.xdp




Click the red box on the right side to confirm adding PTZ settings successfully.

After entering this panel, the white LED will automatically start when it triggered the temperature alarm.





To press  icon, it will pop up the picture below, then enable the “Light” to turn on the white LED.

Establishment the Decoder to cruise automatically ×

Auto-Plane scan

Decoder to cruise automatically

1	<input type="text"/>	0	(Stay:second)
2	<input type="text"/>	0	(Stay:second)
3	<input type="text"/>	0	(Stay:second)
4	<input type="text"/>	0	(Stay:second)
5	<input type="text"/>	0	(Stay:second)
6	<input type="text"/>	0	(Stay:second)
7	<input type="text"/>	0	(Stay:second)
8	<input type="text"/>	0	(Stay:second)
9	<input type="text"/>	0	(Stay:second)
10	<input type="text"/>	0	(Stay:second)
11	<input type="text"/>	0	(Stay:second)
12	<input type="text"/>	0	(Stay:second)
13	<input type="text"/>	0	(Stay:second)
14	<input type="text"/>	0	(Stay:second)
15	<input type="text"/>	0	(Stay:second)
16	<input type="text"/>	0	(Stay:second)

Other

Wiper  Light  OSD Menu

Clear Preset-Pos DO ON DO OFF

## 7. Temperature Calibration

Open the setting page, select IPCAM Web to enter the Alarm page.

There are two items to correct the Temperature:

Thermal Offset: **temperature correction offset**, depends on different installation site to adjust the temperature. EX: Fill in 2 as the detection result +2 degrees.

**For temperature Offset, please adjust temperature with the fixed image / target / angle / distance, otherwise the detection result will be distorted.**

Thermal Denoise: The default is 2, this item is related to the algorithm, it is not recommended to change this parameter.

If the temperature rises abnormally for a period of time, you can try to adjust it.

**The parameter range is 1~10, please restarted the camera after modification.**

