

# Thermal Camera

## **Fever screening in public area**

### Fever detection

## **Setting guide for End user**



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**Note:** Users can use the fever scanning system immediately based on the settings that the installer has set.

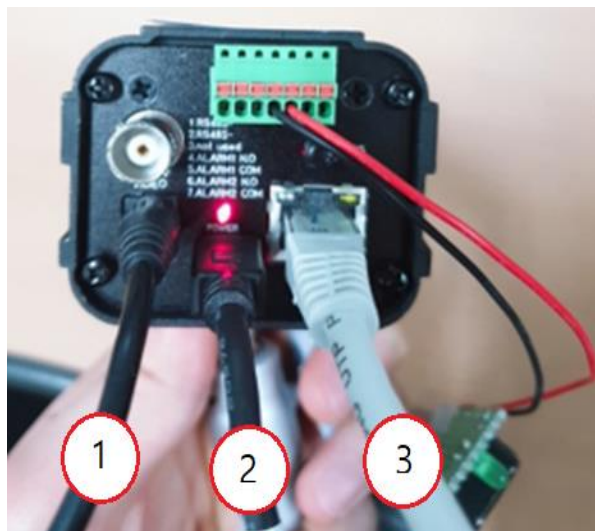
However, it is necessary to adjust the position or shape of the ROI set by the installer to match the actual site of use. In addition, if objects like of lighting on the ceiling or on the wall which is above human face temperature is in the preset ROI, it is necessary to adjust the shape of the ROIs so that they are excluded.

The temperature setting within the ROI should also be simply adjusted to suit the actual use environment.

## 1. Camera connection



Before connection



After connection

1- AC/DC ADAPTER / 2-mini HDMI / 3- RJ45

(\* When the camera is powered on, the LED lights up in the POWER port.

If the camera and the PC are powered on and the RJ45 is connected 1:1 connection, the ETHERNET port will be illuminated.

It turns on.)

(※ If the ETHERNET is not illuminated, replace it with another RJ45.)

## 2. Quad Channel Analyzer Installation

※ For information on installing the Quad Channel Analyzer,

See [QuadChanalyzerSetup ]

## 3. PC – IP Setting

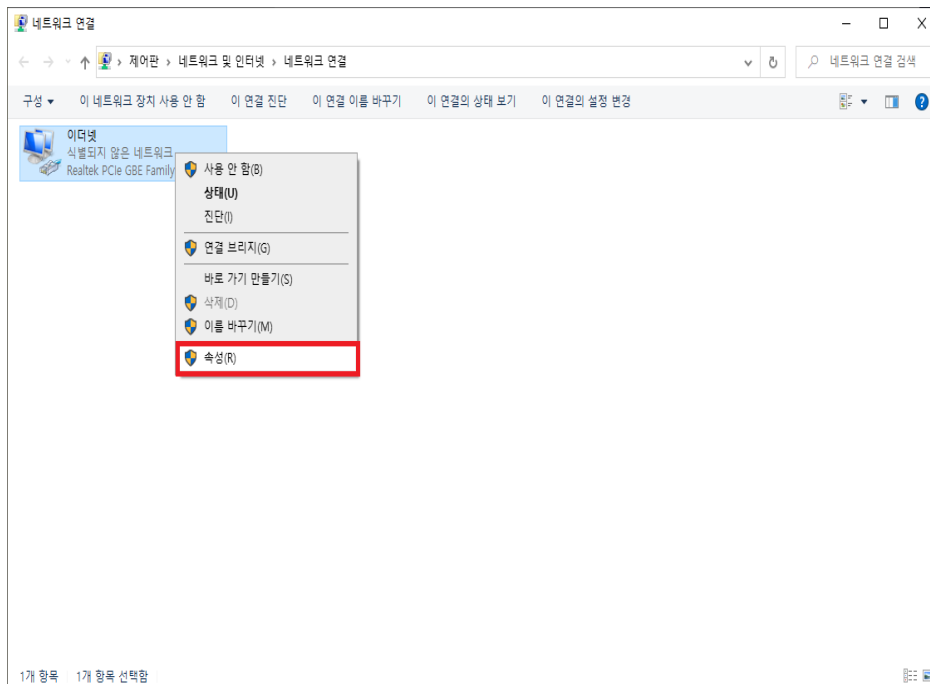
Connect camera to PC using Ethernet cable included in the package (direction connection)

It is set automatically set to (IP: 169.254.100.100, Subnet Mask: 255.255.0.0)

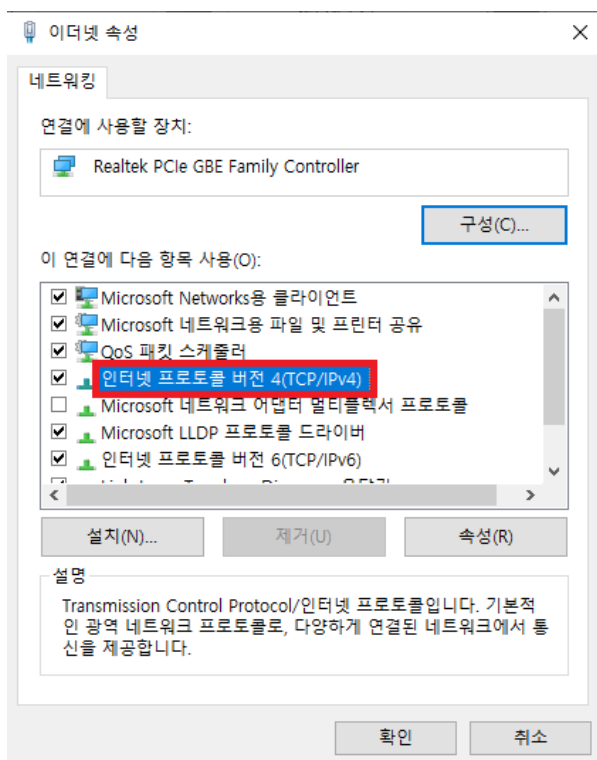
IP setting method



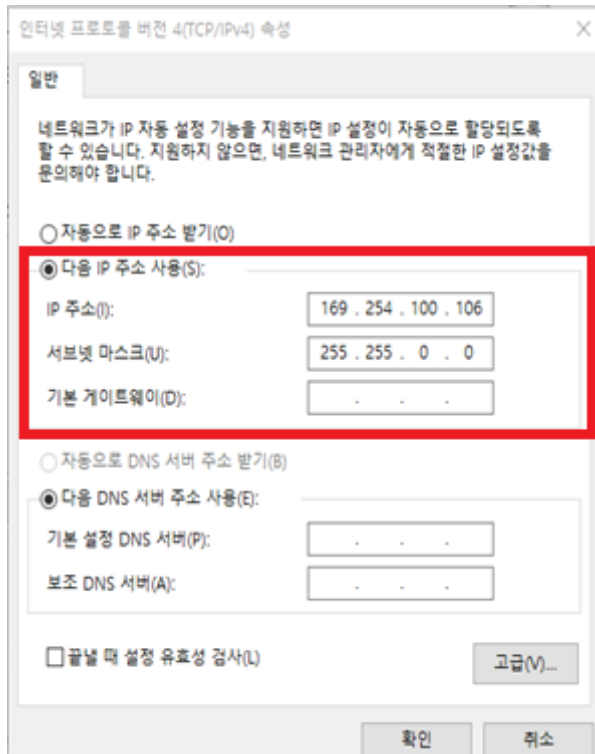
Network → Adaptor option change



Ethernet Mouse Right Click → Properties



Internet Protocol version4 (TCP/IPv4) Double-click

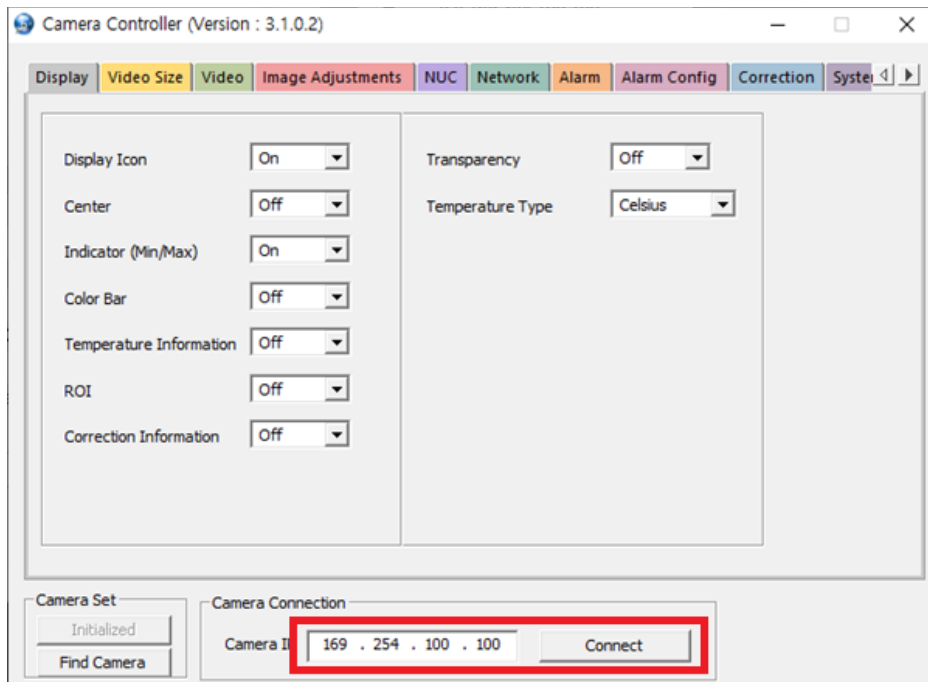


Use the following IP address > IP address: Set to 169.254.100.x

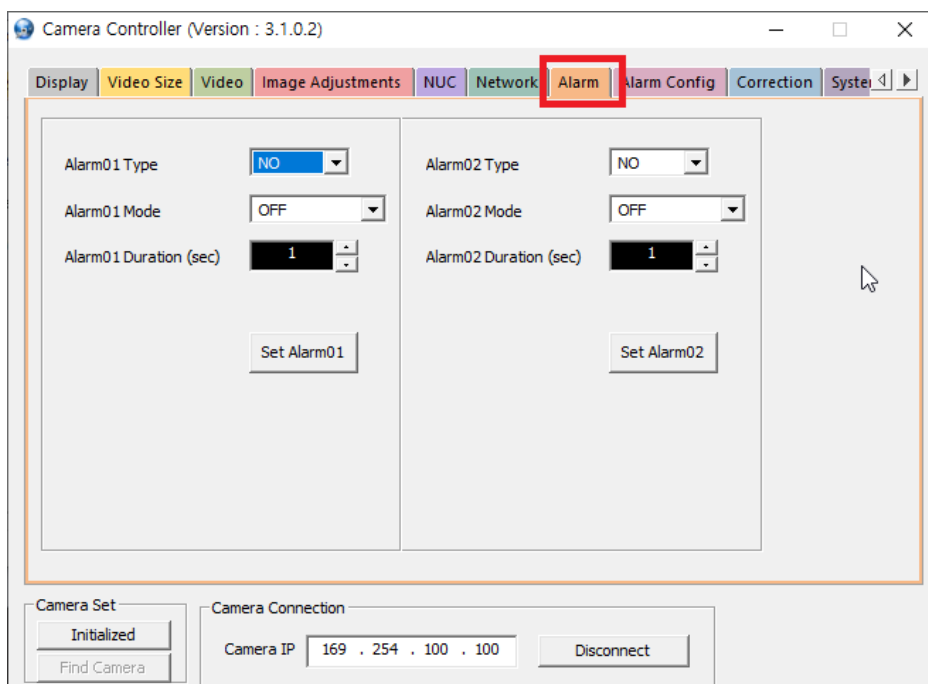
Subnet Mask: 255. 255. 0. 0

(※Please enter the last digit that does not overlap.)

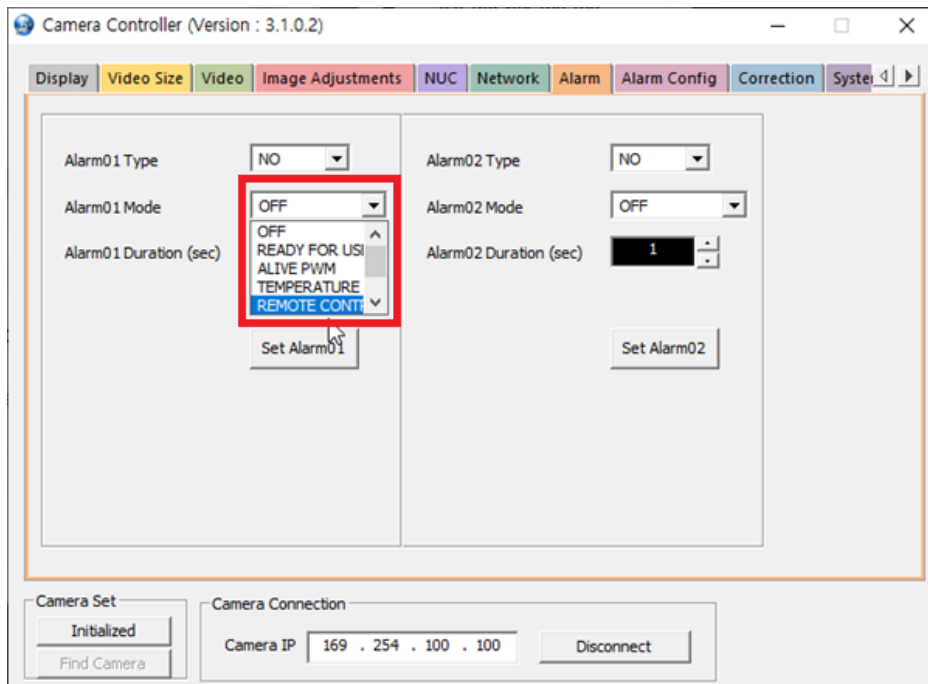
## 4. Camera Controller



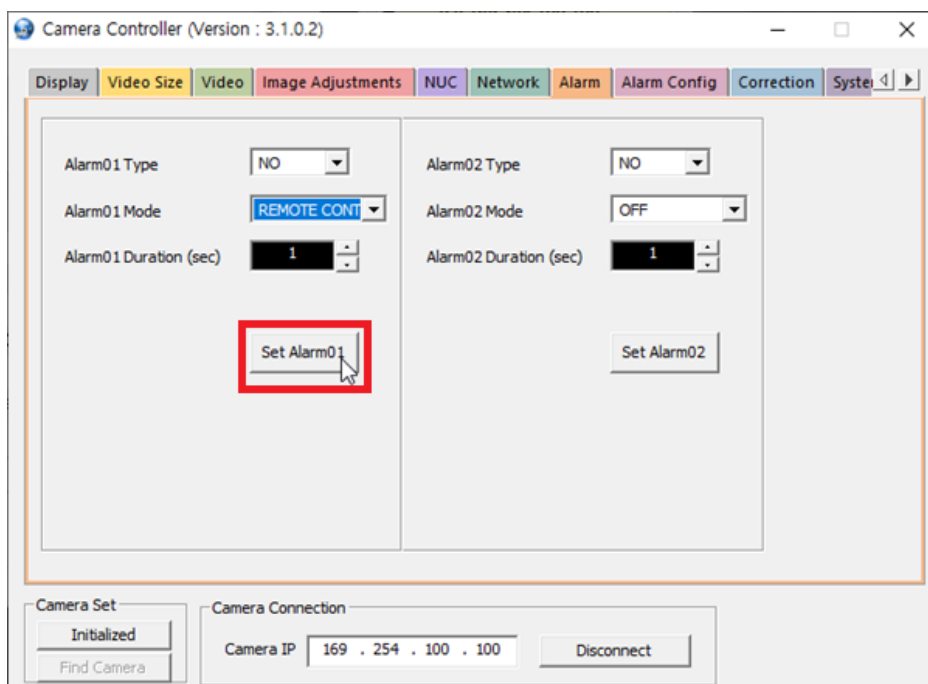
Enter Camera IP (169, 254, 100, 100) and connect.



Click Alarm in the top menu

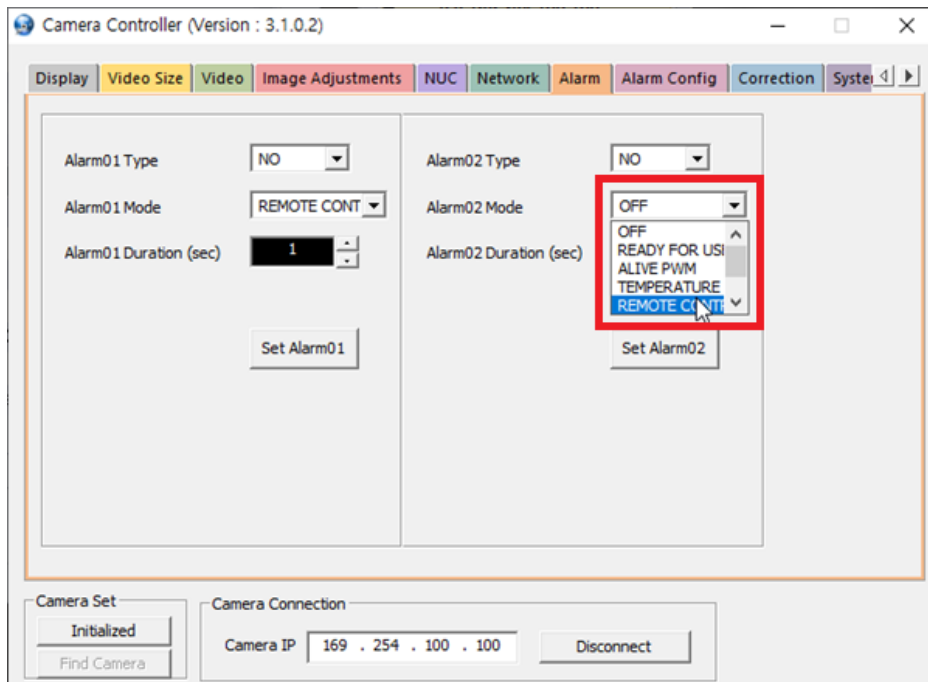


Alarm01Mode (OFF → REMOTE CONTROL)



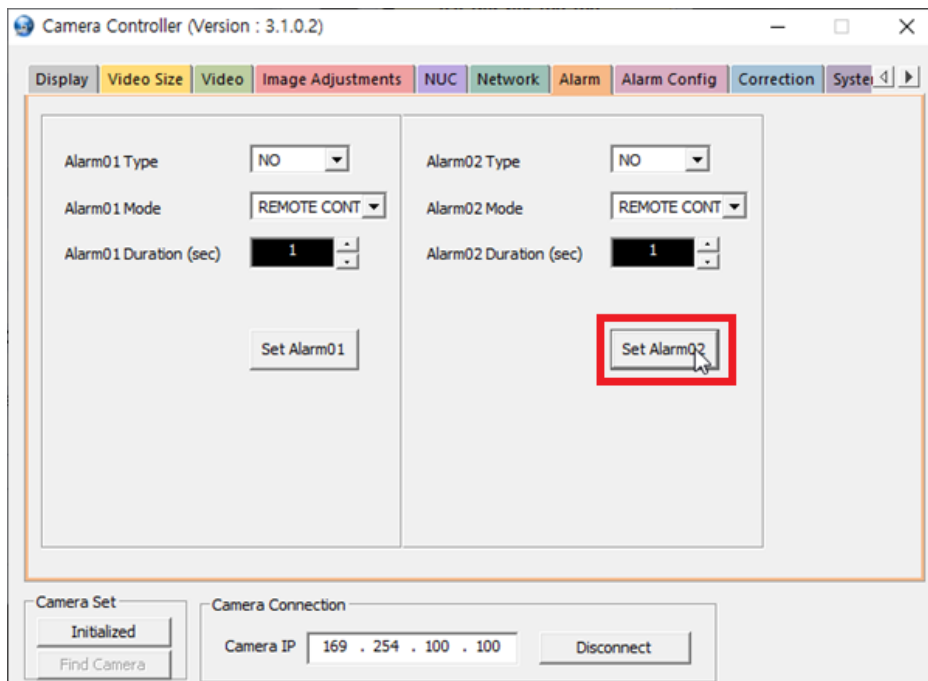
Click Set Alarm01





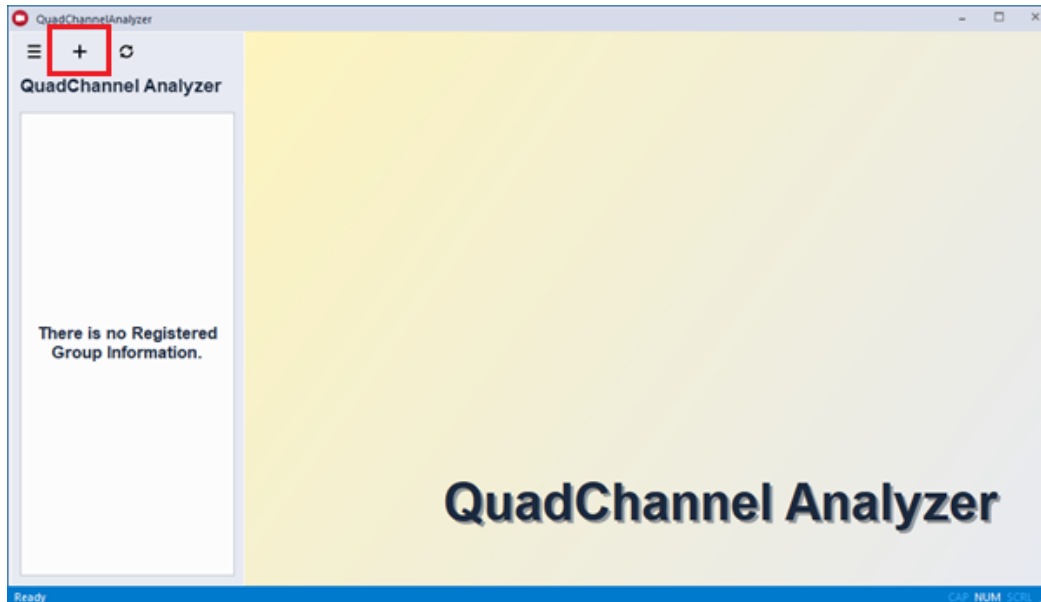
(※ When setting Alarm02)

Alarm02Mode (OFF → REMOTE CONTROL) as in Alarm01.

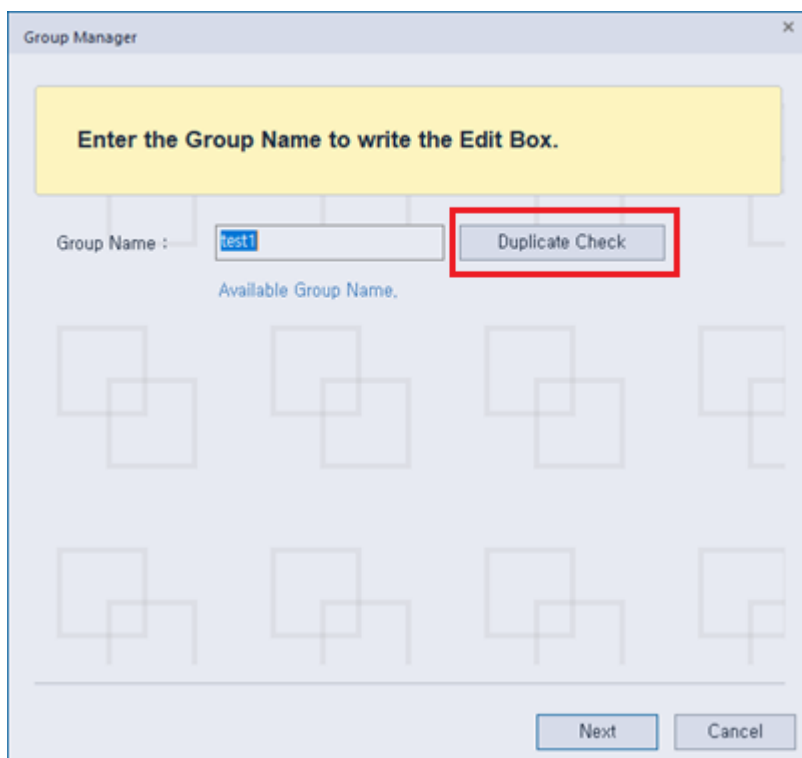


Click Set Alarm02

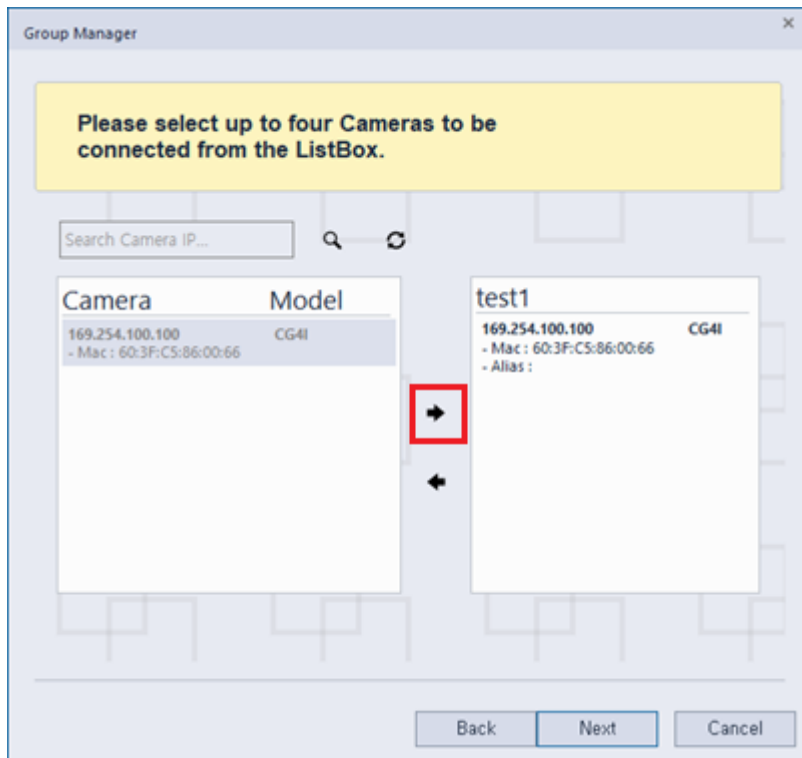
## 5. QuadChannelAnalyzer Run – Register Group



Click + to create a Group Manager window

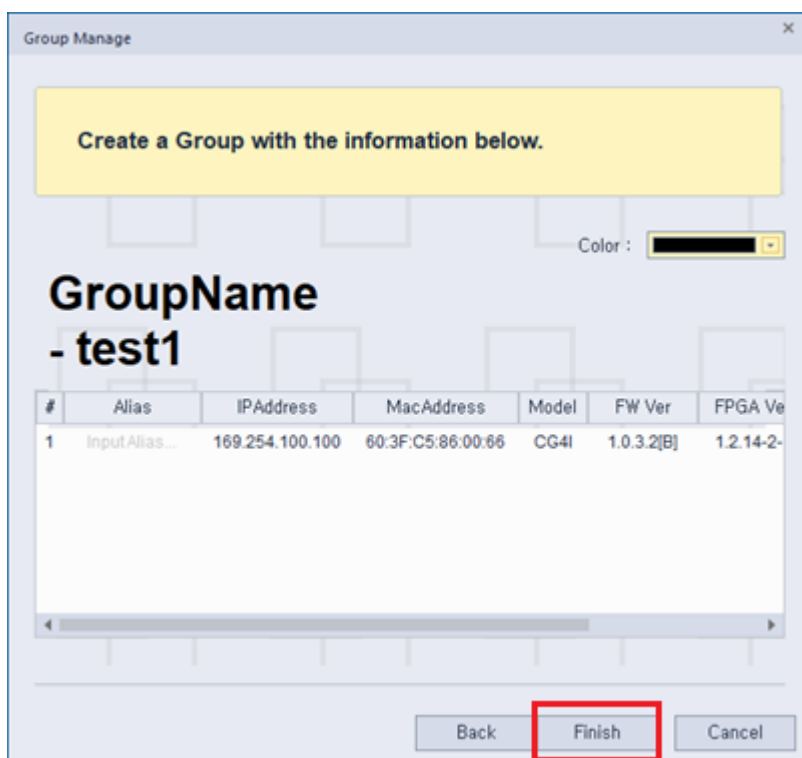


Enter Group Name, check the Duplicate, and then click Next.

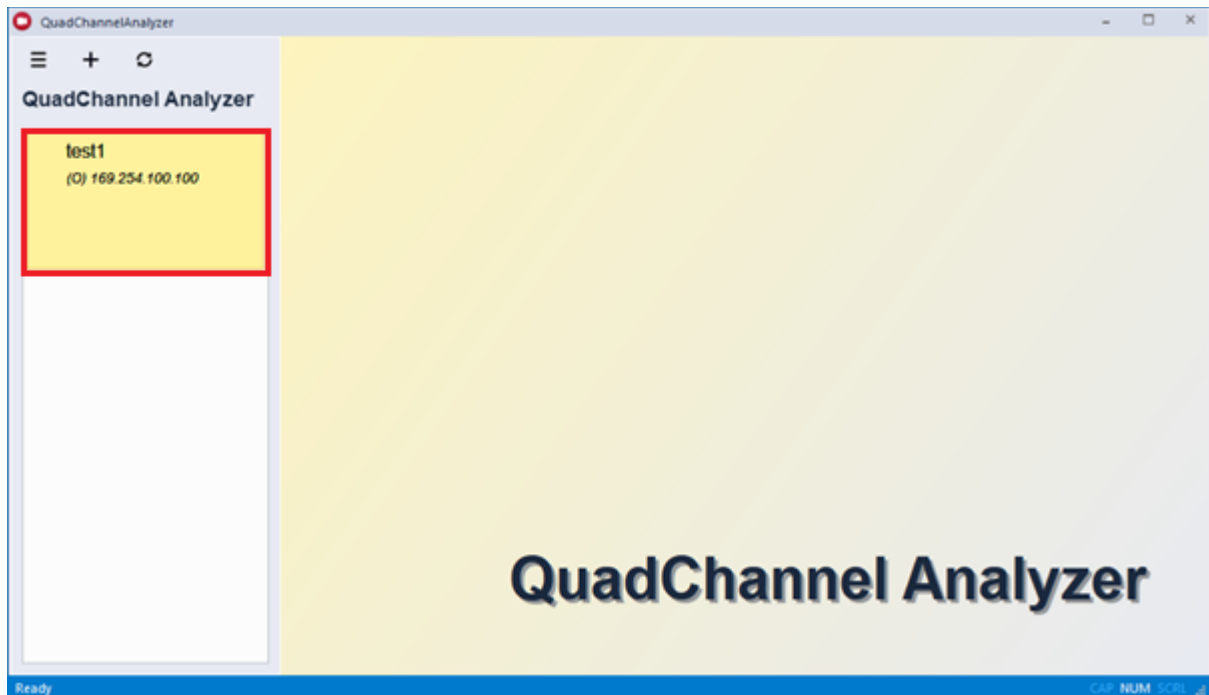


Use the list of cameras created in the left ListBox by double-clicking or using the right arrow.

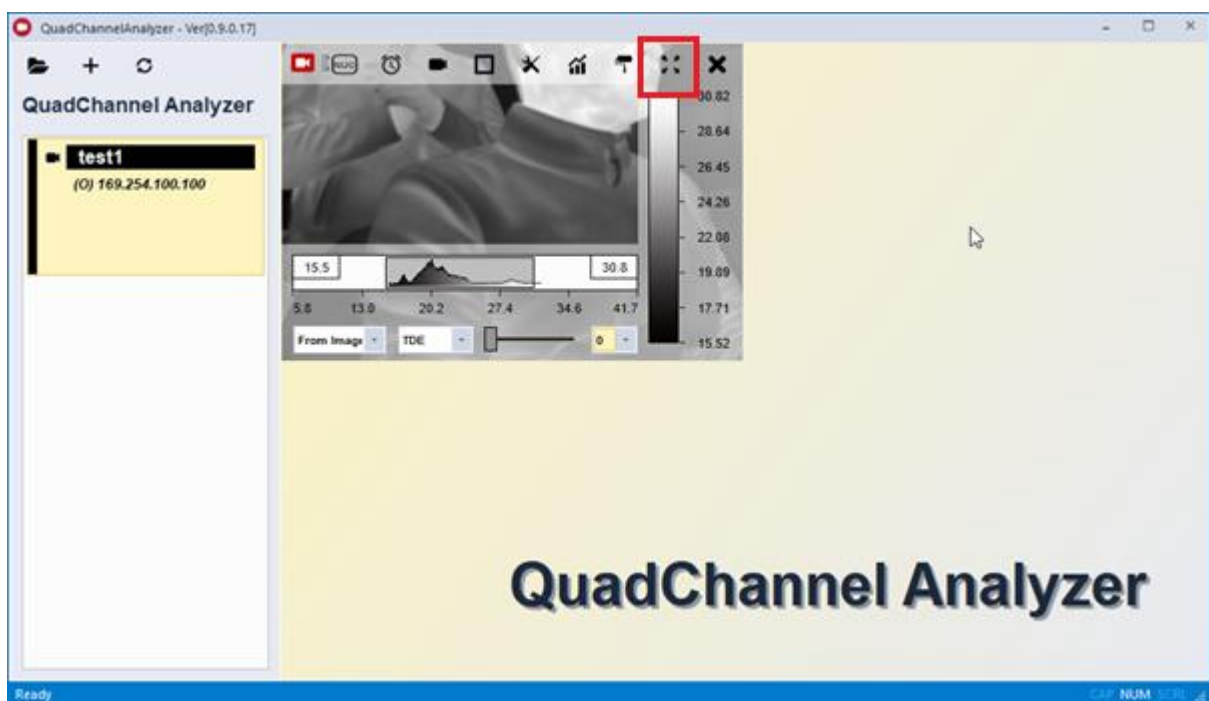
Go to camera list on the right



## 6. QuadChannelAnalyzer - Connect



Double-click the group on the left to connect.

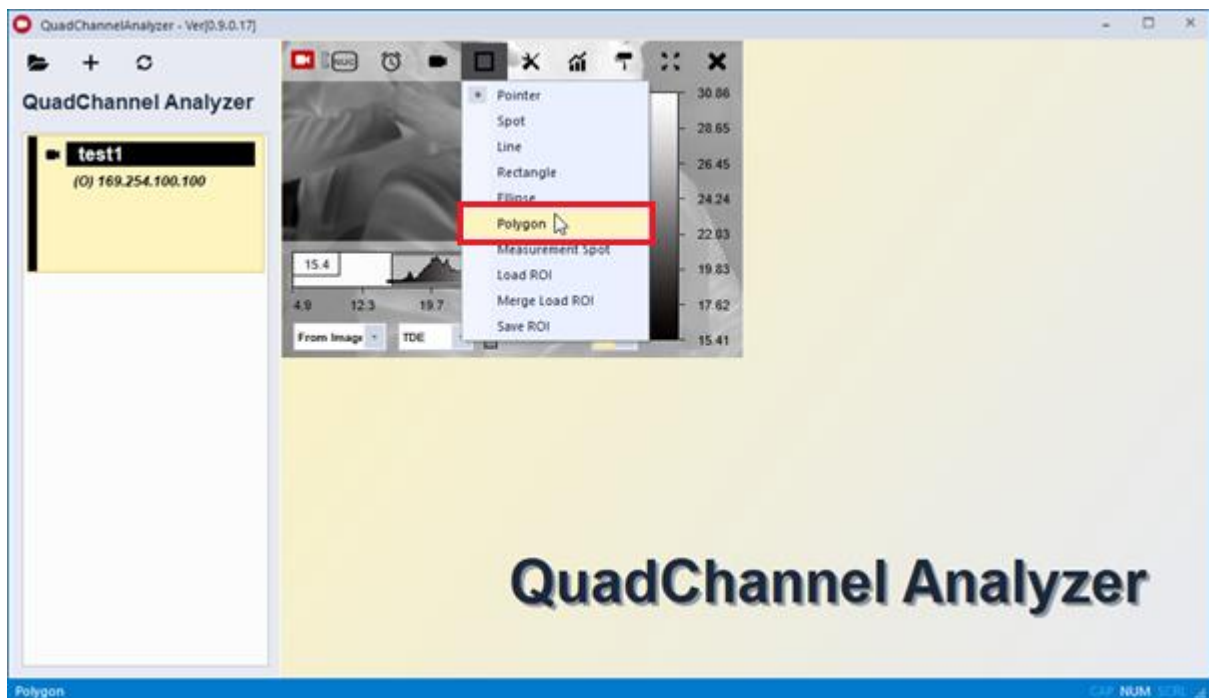


Press the full screen button at the top right of the menu to make the screen larger.

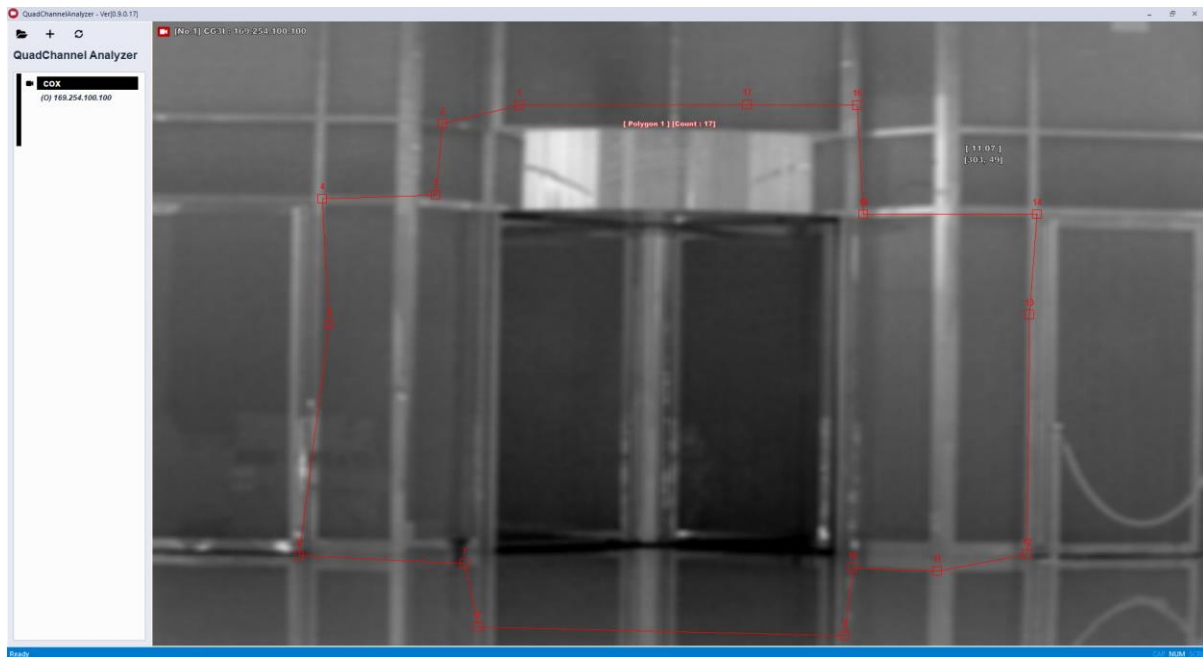
## 7. QuadChannelAnalyzer - ROI Polygon Setting

Cameras should be installed in front of the people moving, and then the temperature of the face of the people moving should be measured to screen out people with high facial temperatures. To facilitate screening, the portion of the ROI (Region of Interest) should not include objects higher than human face temperatures (e.g., glow lamp on the ceiling or on the wall whose temperatures are always above facial temperature), not to make false alarm.

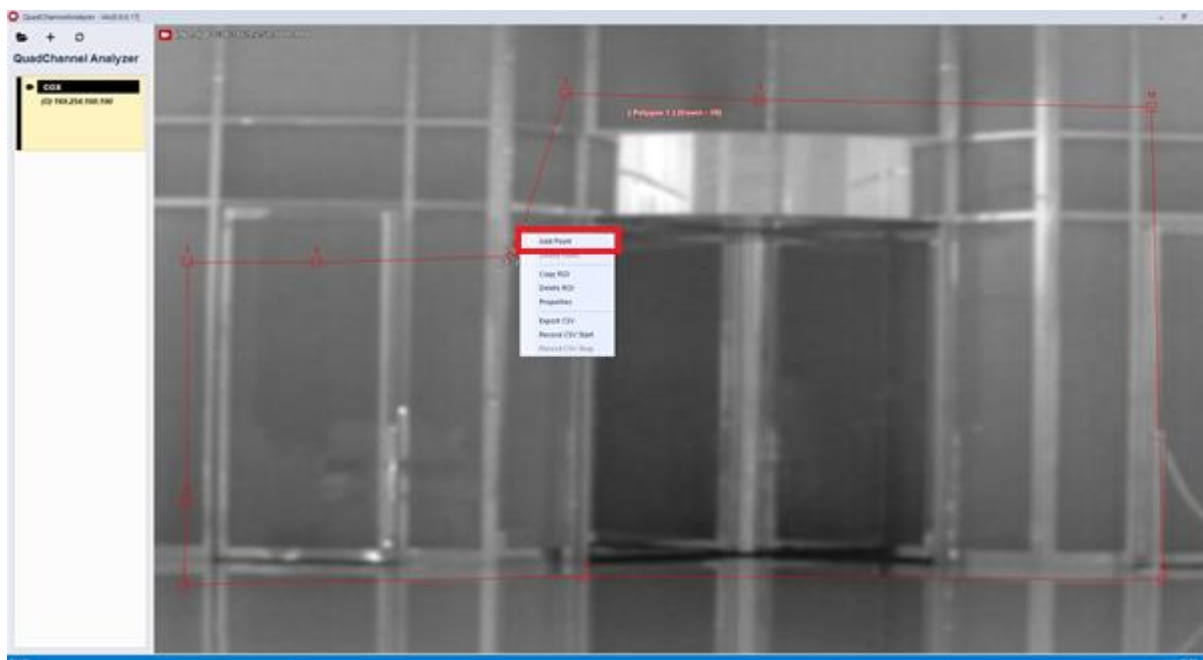
Here, we explain how we set ROI in pattern of polygon.



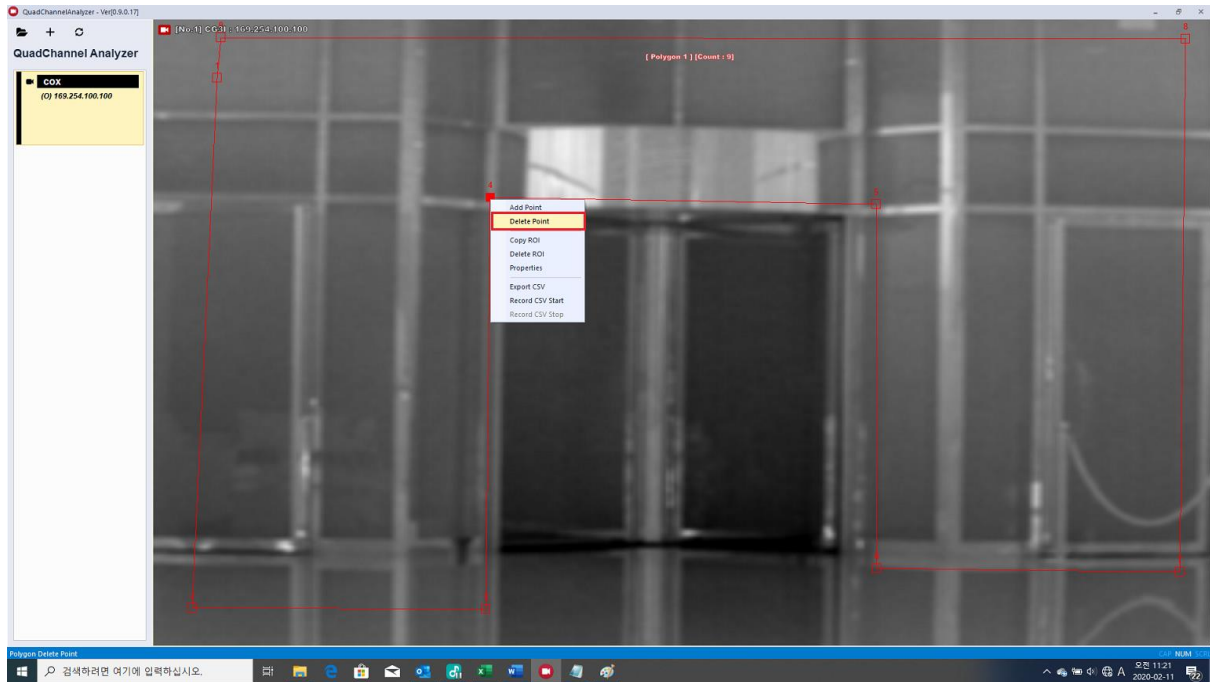
Select Polygon



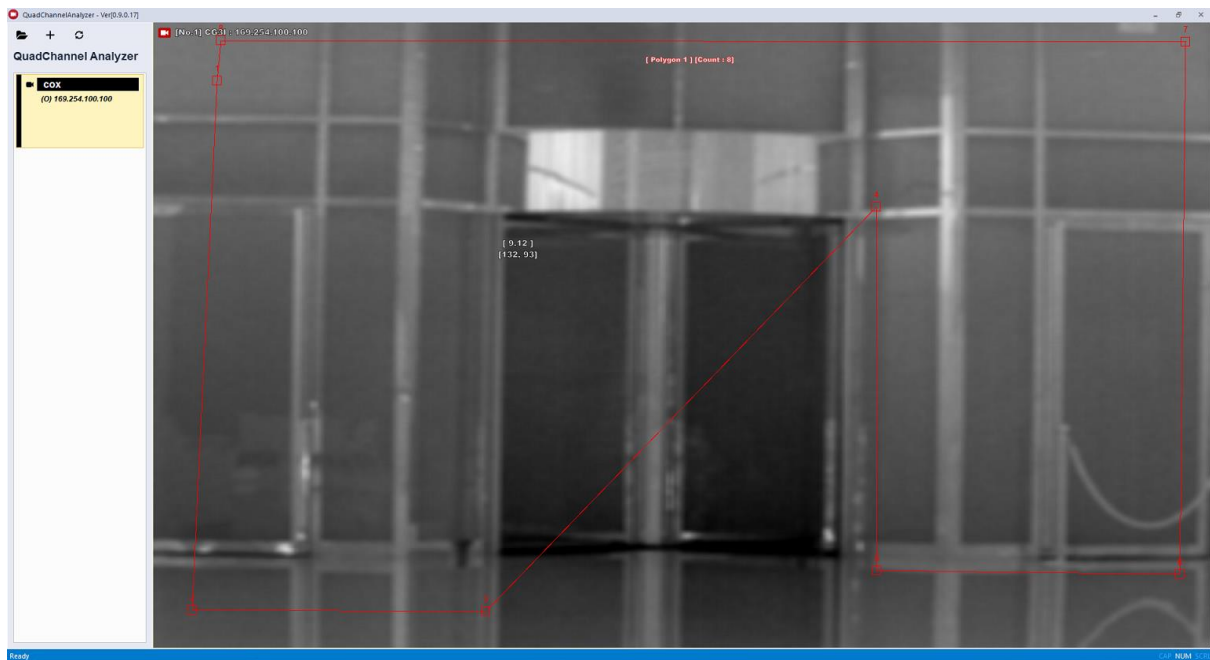
When you left click on the mouse, the point is created, up to 20 points(polygon) in total.

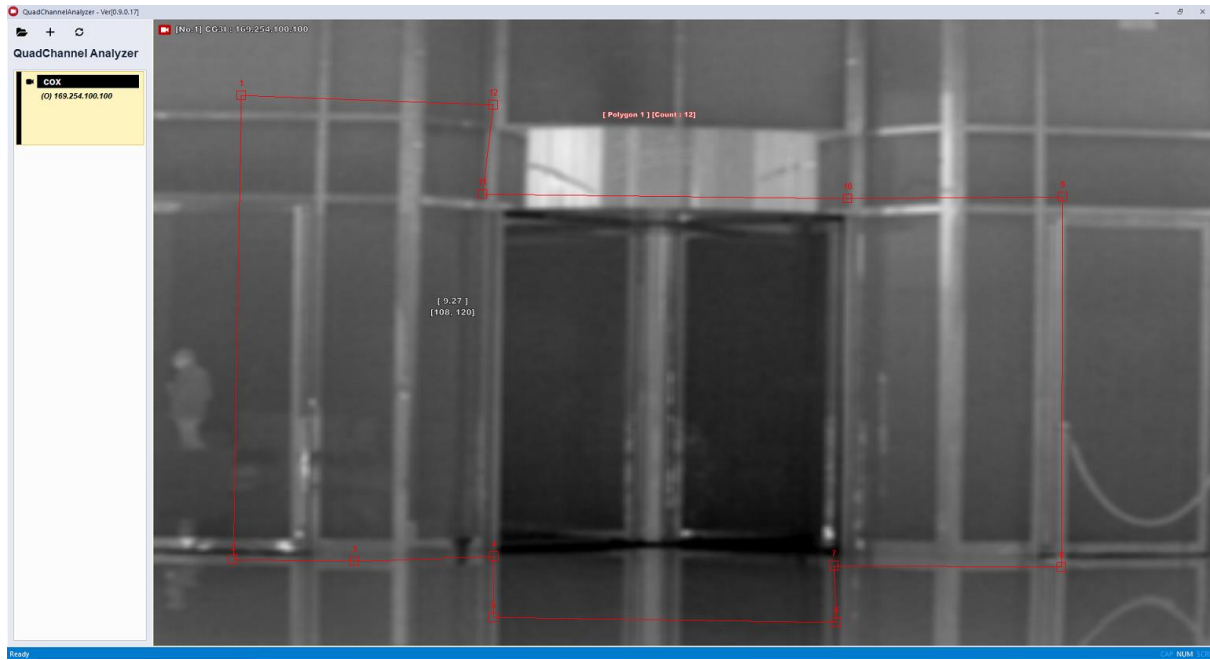


Hover over the Polygon line and right click adds points.



Points will be deleted when you right-click on a Polygon point

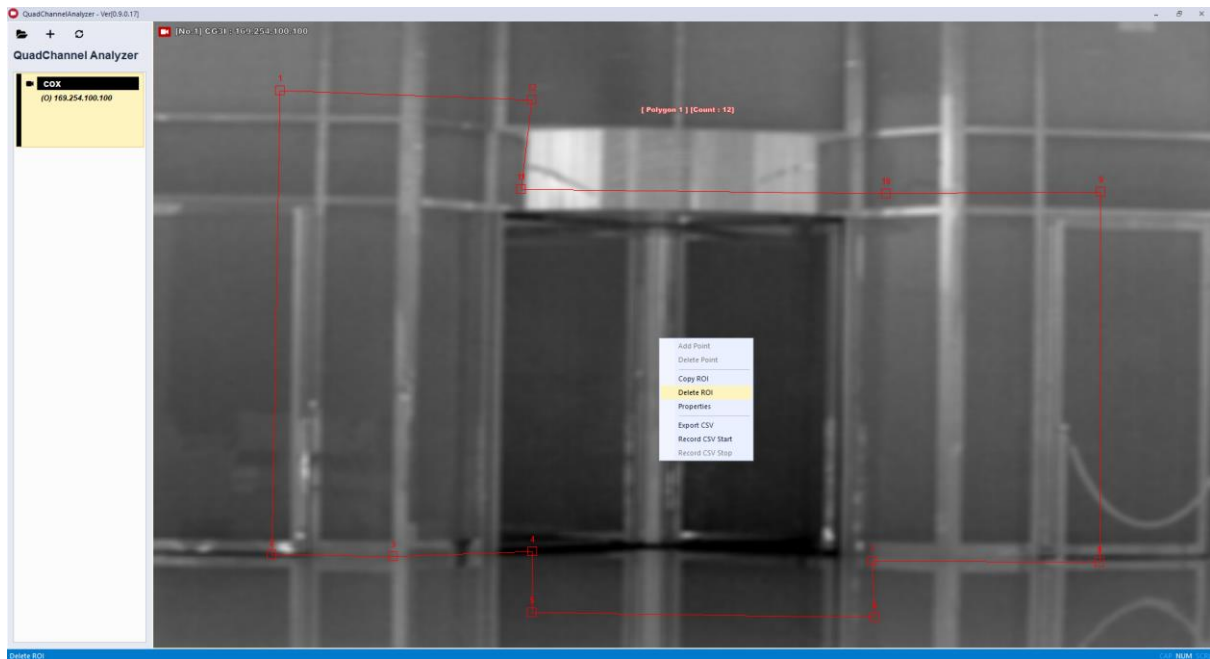




Left click and drag inside Polygon to move Polygon.

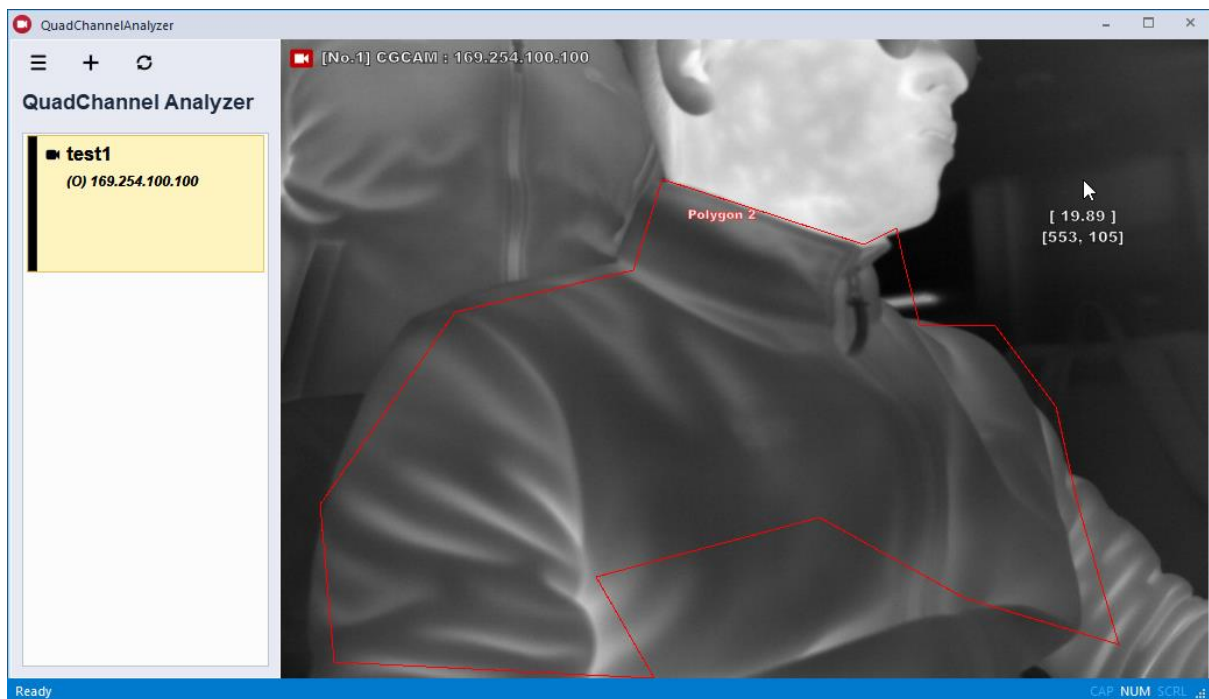






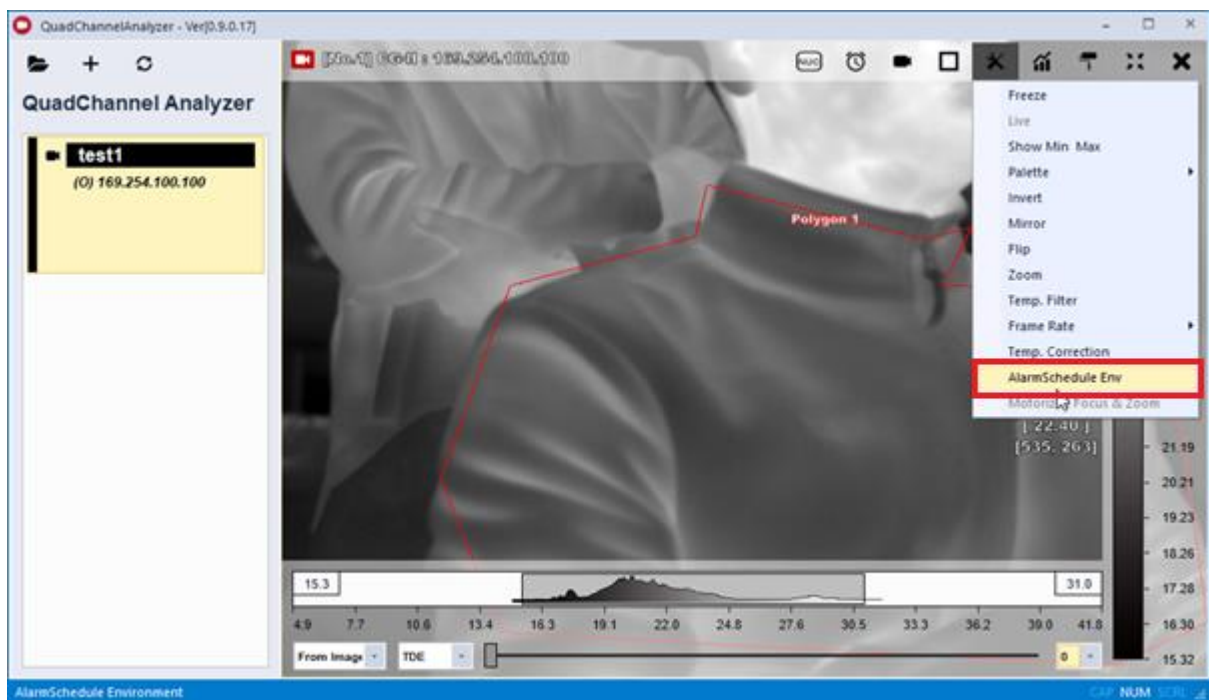
Select the mouse right click, Delete ROI inside Polygon to delete Polygon.





In case any pixels inside ROI exceeds set temperature, alarm signal is issued.

## 8. AlarmSchedule Setting



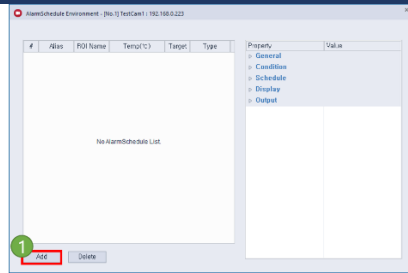
Click AlarmSchedule Env

## Sequence

## Screenshot

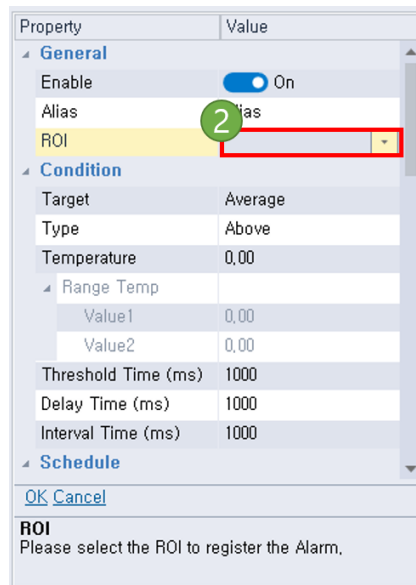
## Remark

1



- Click on No. 1 "Add" button in the AlarmSchedule Env window

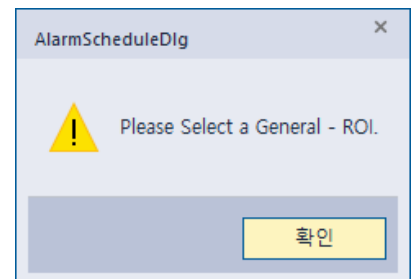
2



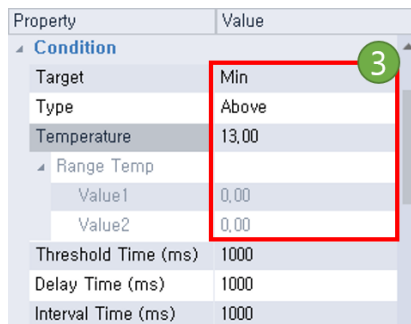
- AlarmSchedule Env Right Property Window Activated

- Select the ROI to check alarm number ②.

- When finished without selecting the ROI, the following warning pop-up is displayed:



3



- Set the value corresponding to alarm conditions ③

4

Property	Value
<b>Schedule</b>	
Range Type	No Schedule ④
Date Time (Start)	2019-07-26 16:04
Date Time (End)	2019-07-26 17:04
<b>Pattern</b>	
Type	All Day
<b>Time</b>	
Time 1	16:04
Time 2	16:05
<b>Day of the Week</b>	
(Sunday, Monday, ...)	
Sunday	<input type="checkbox"/>
Monday	<input type="checkbox"/>
Tuesday	<input type="checkbox"/>
Wednesday	<input type="checkbox"/>
Thursday	<input type="checkbox"/>
OK Cancel	
<b>Temperature</b> Write down the temperature to be used for the condition.	

5

Property	Value
<b>Display</b>	
DrawOn Time (ms)	300
DrawOff Time (ms)	300
ROI Name Emphasis	<input checked="" type="checkbox"/> On
Emphasis Color	FF0000
<b>Flicker</b>	
Fill ROI	<input checked="" type="checkbox"/> On
Fill Alpha	0.2
Width	6
OK Cancel	

6

Property	Value
Emphasis Color	FF0000
<b>Flicker</b>	
Fill ROI	<input checked="" type="checkbox"/> On
Fill Alpha	0.2
Width	6
<b>Output</b>	
Sound	<input checked="" type="checkbox"/> ⑥
Digital Out	<input type="checkbox"/>
Recording	<input type="checkbox"/>
CSV	<input type="checkbox"/>
ROI area CSV	<input type="checkbox"/>
Image	<input type="checkbox"/>
Statistics CSV	<input type="checkbox"/>
OK Cancel	
<b>Fill Alpha</b> Set alpha value in highlight color when alarm is activated.	

- Set the value for alarm schedule ④

- When alarm No. ⑤ is triggered, highlight the ROI area on the screen and set the color (pixels exceeded set temperature shall be expressed in set color).

- Set what you want to use in ⑥ "Output"

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Property	Value
Emphasis Color	FF0000
<b>Flicker</b>	
Fill ROI	<input checked="" type="checkbox"/> On
Fill Alpha	0,2
Width	6
<b>Output</b>	
Sound	
Digital Out	
Recording	
CSV	
ROI area CSV	
Image	
Statistics CSV	

**OK Cancel**

**Fill Alpha**  
Set alpha value in highlight color when alarm is activated.

- Click on ⑦ "Cancel" button to cancel and ⑦ "OK" button when saving and applying all alarm schedule settings

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AlarmSchedule Environment - [No.1] TestCam1 : 192.168.0.223

#	Alias	ROI Name	Temp(°C)	Target	Type
3	Alias	Image	13.00	Min	Above

Add Delete

Property	Value
<b>General</b>	
Condition	
Schedule	
Display	
Output	

- Added alarm schedule as shown in ⑧ is output to the list

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AlarmSchedule Environment - [No.1] TestCam1 : 192.168.0.223

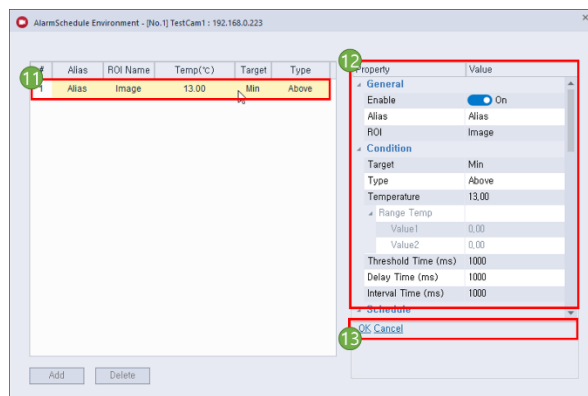
#	Alias	ROI Name	Temp(°C)	Target	Type
3	Alias	Image	13.00	Min	Above

Add Delete

Property	Value
<b>General</b>	
Enable	<input checked="" type="checkbox"/> On
Alias	Alias
ROI	Image
<b>Condition</b>	
Target	Min
Type	Above
Temperature	13.00
<b>Range Temp</b>	
Value1	0.00
Value2	0.00
Threshold Time (ms)	1000
Delay Time (ms)	1000
Interval Time (ms)	1000
<b>Schedule</b>	
Range Type	No Schedule
Date Time (Start)	2019-07-26 16:21
Date Time (End)	2019-07-26 17:21
<b>Pattern</b>	

- Click ⑨ to activate the Property window as shown in ⑩ and check the details of the selected alarm in the list.

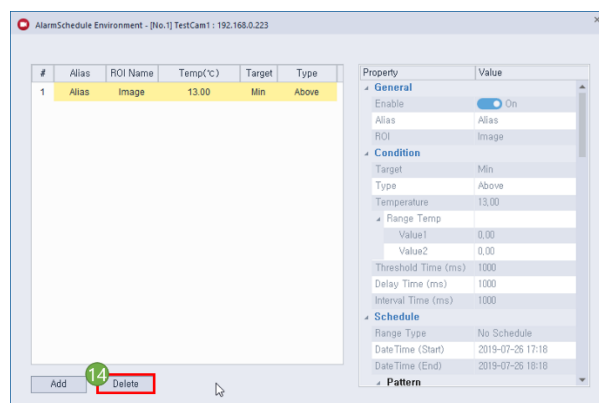
10



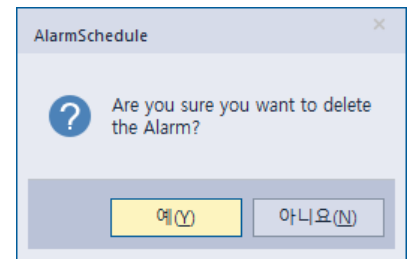
- Double-click ⑪ to modify the alarm details in Property ⑫

- Task can be completed and canceled with ⑬ "OK" and "Cancel"

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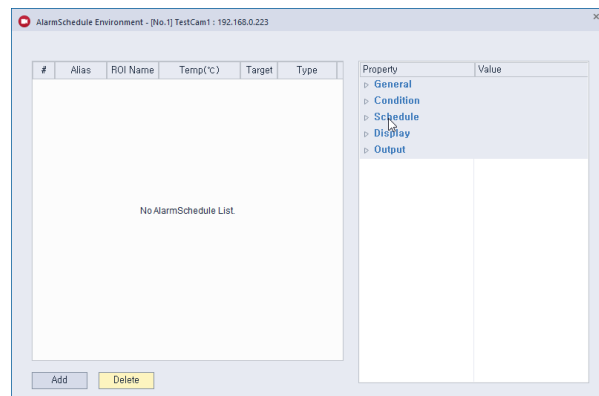


- Select an alarm in the alarm list and click on the "Delete" button on number ⑭ to output a popup window

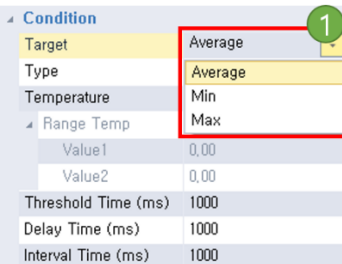
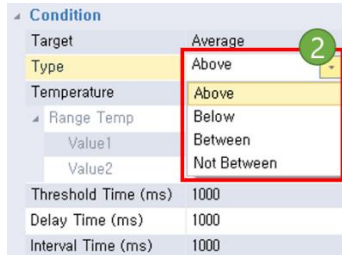



- Screen where alarm is cancelled.

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## 8-1 Alarm Functions Detail

Item	Screenshot	Description
Target		<ul style="list-style-type: none"> <li>- Average, Min, or Max setting</li> </ul>
Type		<ul style="list-style-type: none"> <li>- Average: Conditions to compare with the average temperature value of the currently selected ROI</li> <li>- Min: Conditions to compare with the lowest temperature value of the currently selected ROI</li> <li>- Max: Conditions to compare with the maximum temperature value of the currently selected ROI</li> <li>- Conditions that range according to the temperature conditions set in "Target"</li> <li>- <b>Above:</b> Occurs when the temperature of the ROI is higher than the temperature of the condition</li> <li>- <b>Below:</b> Occurs when the temperature of the ROI falls below the condition temperature</li> <li>- <b>Between:</b> Occurs when the ROI temperature is within the range of the condition temperature</li> <li>- <b>Not Between:</b> Occurs when the ROI temperature is outside the condition temperature range</li> </ul>
Temperature		<ul style="list-style-type: none"> <li>- Only active when condition "Type" is Above or Below</li> <li>- Set the temperature value to generate an alarm</li> </ul>

## Range Temp

- Value1

## Range Temp

- Value2

## Threshold Time(ms)

## Delay Time(ms)

Condition	
Target	Average
Type	Between
Temperature	0.00
Range Temp	0.00 ~ 0.00
Value1	0.00
Value2	0.00
Threshold Time (ms)	1000
Delay Time (ms)	1000
Interval Time (ms)	1000

Threshold Time (ms)	1000
Delay Time (ms)	1000
Interval Time (ms)	1000

Threshold Time (ms)	1000
Delay Time (ms)	1000
Interval Time (ms)	1000

- Only active when condition "Type" is Between or Not Between
- Set temperature condition to range from Value1 to Value2 when Between
- Set the temperature condition to range from Value1 to Value2 when Not Between.
- Start the alarm after the time set for number ① when the alarm conditions are satisfied
- Threshold Time range: 1000(ms) ~ 10000(ms)
- Alert output when setting values are incorrect  
Possible to see warning statements when put mouse cursor on the red exclamation mark as shown on #④

Threshold Time	!	100
Delay Time (ms)		1000
Interval Time (ms)		1000

Incorrect Value : the correct value should be between 1000 and 10000

- Alarm is cancelled if the alarm conditions are not satisfied after the alarm is triggered and kept for the time set in number ②
- Delay Time range: 1000(ms) ~ 10000(ms)
- Alert output when setting values are incorrect  
Possible to see warning statements when put mouse cursor on the red exclamation mark as shown on #⑤

Threshold Time (ms)		1000
Delay Time (ms)	!	100
Interval Time (ms)		1000

Incorrect Value : the correct value should be between 1000 and 10000



## Interval Time(ms)

Threshold Time (ms)	1000
Delay Time (ms)	1000
Interval Time (ms)	1000

- Prevent alarms from occurring regardless of the conditions of the alarm for the time set in number ③ after the alarm is canceled.
- Interval Time range: 1000(ms) ~ 10000(ms)
- Alert output when setting values are incorrect  
Possible to see warning statements when pit mouse cursor on the red exclamation mark as shown on # ⑥

Threshold Time (ms)	1000
Delay Time (ms)	1000
Interval Time (ms)	100

Incorrect Value : the correct value should be between 1000 and 10000

※ This is page 1 of the Add Alarm screen

Set the alias of the alarm and the alarm activation & deactivation condition time.

Alarm Schedule Add

Set alarm alias and alarm occurrence time option.

\* Alarm Schedule Alias :  Duplicate Check

Write down the Alarm alias you want to use in the Edit Box.

Alarm Time Condition

Threshold Time (ms) : 1000 ms

Delay Time (ms) : 1000 ms


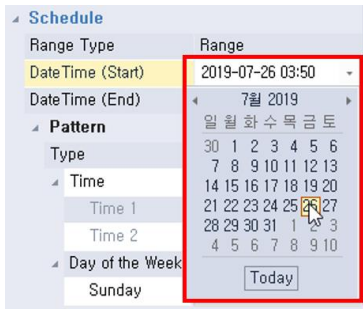
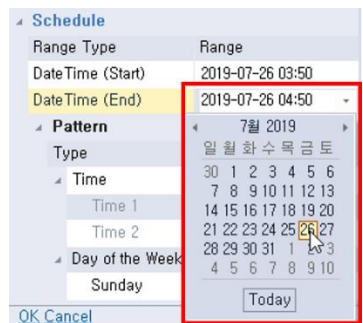
Interval Time (ms) : 1000 ms

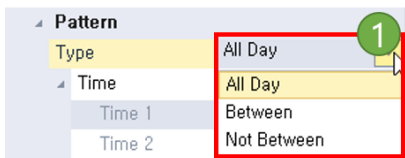
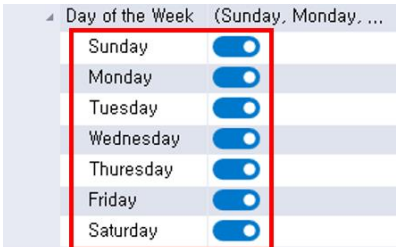
Back Next Cancel

< page 1 >







Number	Description
1	<ul style="list-style-type: none"> <li>- Set alarm aliases</li> </ul>
2	<ul style="list-style-type: none"> <li>- Run a check to see if the alarm aliases are duplicated.</li> <li>- Check if alarm aliases are duplicated through duplicate inspection  "Available Alarm alias": Available  "The same Alarm alias already exist.": aliases in use</li> </ul>
3	<ul style="list-style-type: none"> <li>- Set the time at the time of the active &amp; disable switch, depending on the alarm conditions.</li> <li>- Threshold Time: After the alarm condition is satisfied, keep it for this set time and then start the alarm (default: 1000 ms).</li> <li>- Delay Time: If the alarm condition is not satisfied after the alarm is triggered, the alarm is kept for this set time and then the alarm is terminated (default: 1000 ms).</li> <li>- Interval Time: Do not allow new alarm for this setting time after the alarm is terminated (default: 1000ms)</li> </ul> <p style="text-align: center;"><b>&lt; Alarm generation process &gt;</b></p> <p>The diagram illustrates the alarm generation process with two horizontal timelines: 'On' (top) and 'Off' (bottom). Vertical dashed lines mark key events: 'Alarm Condition On' and 'Alarm Condition Off'. The 'On' timeline shows a red pulse starting after the first 'Alarm Condition On' (labeled 1), followed by a gap (labeled 2), a second pulse (labeled 3), and a final gap (labeled 1). The 'Off' timeline shows a red pulse starting after the first 'Alarm Condition Off' (labeled 2), followed by a gap (labeled 3), and a final pulse (labeled 1). A legend on the right identifies the numbers: 1 Threshold Time, 2 Delay Time, and 3 Interval Time. A blue double-headed arrow at the bottom indicates the 'Alarm Generation' period.</p>
4	<ul style="list-style-type: none"> <li>- Back: Previous screen</li> <li>- Next: Next screen</li> <li>- Cancel: Cancellation</li> </ul>

※ "Schedule - Range" option

Item	Screenshot	Description
No Schedule		<ul style="list-style-type: none"> <li>- Alarm is triggered when alarm conditions are satisfied regardless of schedule</li> </ul>
OneTime		<ul style="list-style-type: none"> <li>- Disable all schedule related items</li> <li>- Alarm is triggered only the first time</li> </ul>
Range		<ul style="list-style-type: none"> <li>- Disable all schedule related items</li> <li>- Set start and end times</li> <li>- Enable Pattern item activation.</li> </ul>
Recurrence		<ul style="list-style-type: none"> <li>- Alarm is triggered according to pattern settings when conditions are satisfied</li> <li>- Deactivate "DateTime (Start)" and "DateTime (End)" items</li> </ul>
DateTime (Start)		<ul style="list-style-type: none"> <li>- Only active when "Range Type" is "Range"</li> <li>- Set the start date time</li> </ul>
DateTime (End)		<ul style="list-style-type: none"> <li>- Only active when "Range Type" is "Range"</li> <li>- Set the end date and time</li> </ul>

Item	Screenshot	Description
Type		<ul style="list-style-type: none"> <li>- Alarm can be set by specific pattern</li> <li>- All Day: Set to full day with no extra time settings (Disable Time1, Time2 items)</li> <li>- Between: Set the time of Time1 and Time2 to fix range. Alarm is triggered only within the range of Time1 to Time2 (Enable Time1 and Time2 items)</li> <li>- Not Between: Set the time of Time1 and Time2 to fix range. Alarm is triggered outside range (Time 1 ~ Time2) (Activate Time1 and Time2 items)</li> </ul>
Day of the week		<ul style="list-style-type: none"> <li>- Alarm can be set on a specific day of the week</li> </ul>

Item	Screenshot	Description
DrawOn Time (ms)		<ul style="list-style-type: none"> <li>- Set the time when the emphasis is maintained by blinking the ROI area when the alarm condition occurs.</li> <li>- Set range: 100(ms) ~ 10000(ms)</li> </ul>
DrawOff Time (ms)		<ul style="list-style-type: none"> <li>- Set the time when the highlight disappears when the alarm condition occurs and the ROI area is highlighted by blinking.</li> <li>- Set range: 100(ms) ~ 10000(ms)</li> </ul>
ROI Name Emphasis		<ul style="list-style-type: none"> <li>- Does the ROI Name area also be highlighted when the alarm is triggered?</li> </ul>
Emphasis Color		<ul style="list-style-type: none"> <li>- Set the color to highlight when an alarm is triggered.</li> </ul>
Fill ROI		<ul style="list-style-type: none"> <li>- Select the highlight part when the alarm is triggered.</li> <li>- Fill ROI On: Highlight the entire ROI area</li> <li>- Fill ROI Off: Highlight ROI borders only</li> <li>- The "Fill ROI" option is active only in the "On" state.</li> </ul>
Fill Alpha		<ul style="list-style-type: none"> <li>- Set the color transparency that is highlighted when highlighting the entire ROI area</li> </ul>
Width		<ul style="list-style-type: none"> <li>- Activated only in the "Fill ROI" OPTION is "Off" state</li> <li>- Thickness of the line highlighted on the edge of the ROI area</li> </ul>

Item	Normal screen	Applied screen
<div>DrawOn state</div> <div>DrawOff state</div> <div>ROI Name Emphasis</div>	 <p>- Normal screen</p>	 <p>- Highlight the ROI area with the color set in "Emphasis Color" as shown in ①.</p>
	 <p>- Normal screen</p>	 <p>- DrawOff status is the same as normal screen.</p>
	 <p>- Normal screen</p>	 <p>- As in number ②, highlight ROI Name with the color set in "Emphasis Color"</p>

## Emphasis Color



- Outputs with set color set



- "Change Emphasis Color" to yellow

## Fill ROI



- Fill ROI Off status

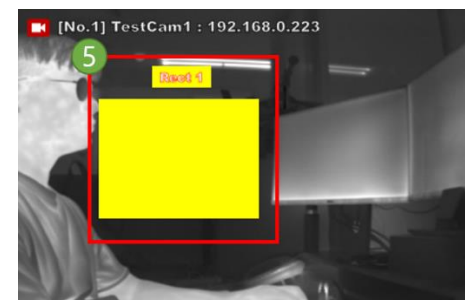


- Fill ROI On Status

## Fill Alpha



- Status with a Fill Alpha value of 0.1.



- Status with a Fill Alpha value of 1.0

## Width



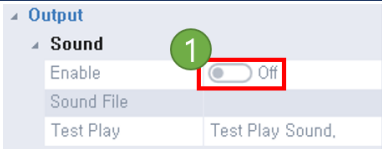
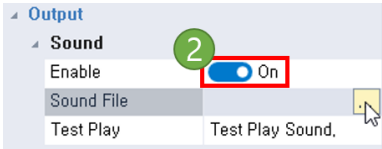
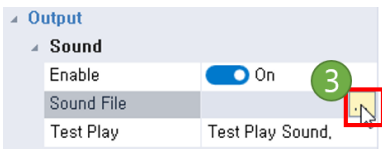
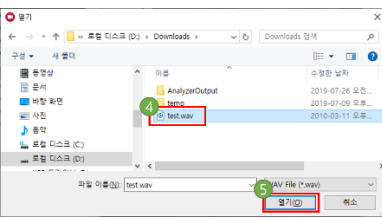
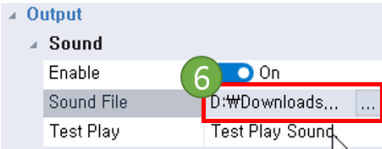
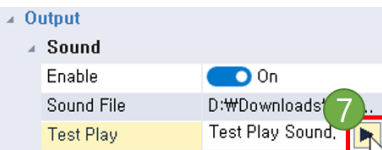
- Width value 1 status



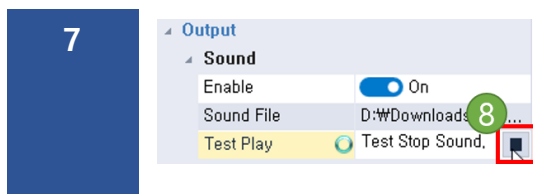
- Width value 10 status

## 8-1-1 AlarmSchedule Env – Output - Sound

- ※ Up to two functions can be used at the same time.
- ※ Play the user-specified file (wav, mp3) when an alarm is triggered.

No	Screenshot	Description
1		- Disable Sound Property if "Enable" item is "Off" as shown in ①.
2		- Activate Sound Property when changing "Enable" to "On" as shown in ②.
3		- Click on the "Sound File" item as shown in #③, and following screen shows up,
4		- Select a file that will sound effective, as shown in ④ and click on button ⑤ "Open"
5		- Output the user's selected full path to the "Sound File" item as shown in ⑥.
6		- Start "Test Play" when button ⑦ is clicked





- Stop "Test Play" when button ⑧ is clicked

## 8-1-2 AlarmSchedule Env – Output – Digital Out

- ※ When an alarm is triggered, the alarm signal is sent to the digital I/O port of the thermal camera.

(Quad channel analyzer makes thermal camera output alarm signal when alarm is triggered in Quad channel analyzer to make warning lamp or other device connected to alarm output port of the camera run by alarm signal sent by the Quad channel analyzer)

No	Screenshot	Description
Alarm 1		- Send alarm signals to #1 I/O port of thermal camera
Alarm 2		- Send alarm signals to #2 I/O port of thermal camera

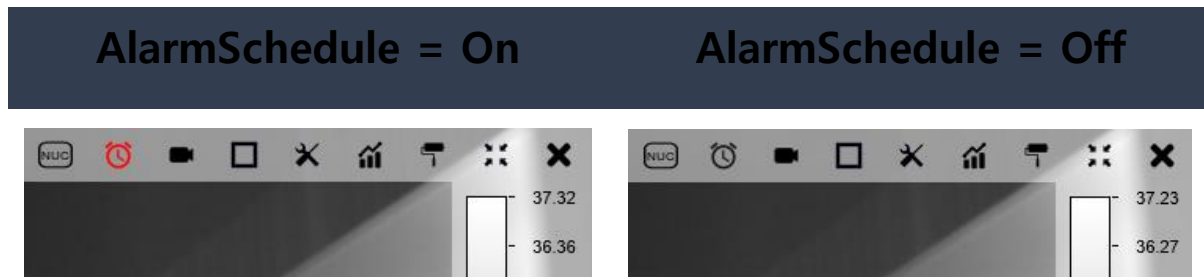
- ※ You can save various outputs such as CSV, Image, and CRD files when an alarm is triggered.

"Environment - Output Path" is automatically saved.

## 9. Enable alarm

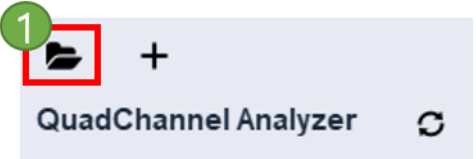
- Icon:
- Turns the alarm schedule on/off.

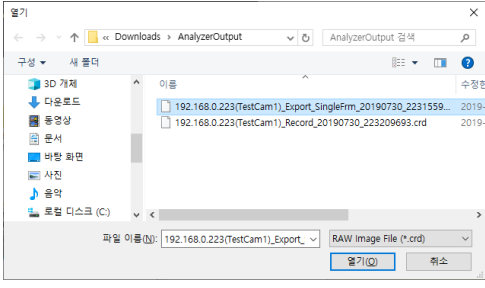



- The icon (  ) switches when the alarm schedule is On



## 10. CRD Player

- **"Export - Describes how to play a CRD file created by the SingleFrame", "Record - RAW", and "AlarmSchedule - Recording - RAW" operation.**
- CRD stands for Calibration Radiometric Data.
- Up to 4 CRD players can be played at the same time.
- CRD files that are output from the Thermal Imaging Analyzer program are not supported by the Quad Channel Analyzer.

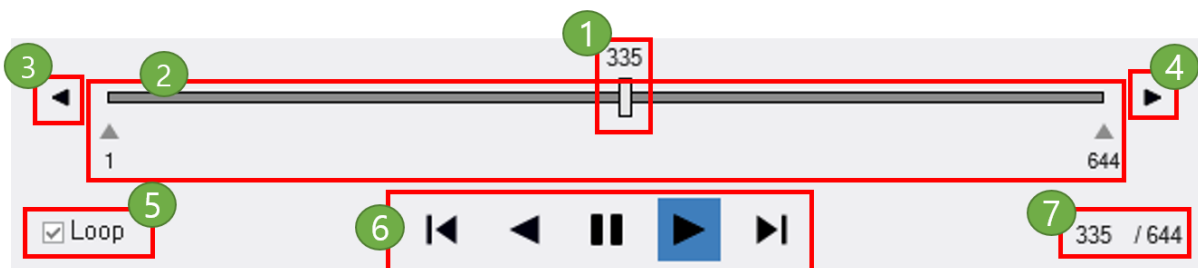
No	Screenshot	Description
1		- Click on icon ① in main window

2		<ul style="list-style-type: none"> <li>- File open dialogue is created, and select the CRD file stored and then click on the "Open" button.</li> </ul>
3		<ul style="list-style-type: none"> <li>- "CRD Player" runs when the CRD file is open</li> <li>- CRD Player Title ①</li> </ul>
4		<ul style="list-style-type: none"> <li>- Indicate the conditions under which the No. ② CRD file was created.</li> </ul> <p><b>C:</b> Recording operation in streaming state</p> <p><b>A1:</b> Recording the image due to alarm number 1.</p> <p><b>A2:</b> Recording the image due to alarm number 2</p> <p>....</p> <p><b>A10:</b> Recording the image due to alarm number 10.</p> <p>ex) <b>C, A1, A2, A3</b></p>
5		<ul style="list-style-type: none"> <li>- Date Time when the number ③ CRD file was recorded</li> </ul>

6		<ul style="list-style-type: none"> <li>- Information and control of CRD file number ④</li> <li>- <b>Playback related controls are disabled as shown in No. ④ if you have opened a CRD file containing a single frame created by the "Export - SingleFrm" operation.</b></li> </ul>
7		<ul style="list-style-type: none"> <li>- The screen showing CRD file play output "Record - RAW"</li> <li>- Playback related controls are active as shown in ④.</li> </ul>

## 9.1 CRD Player - UI explanation

Describes the controls that exist in the CRD Player.



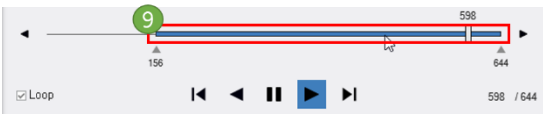
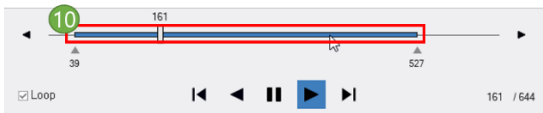
번호	설명
①	- Show the location of the frame that is currently playing.
②	<ul style="list-style-type: none"> <li>- Slide bar, which means total frame</li> <li>- Repeat bar for interval repeat playback on the slider bar</li> <li>- The start and end points of the Repeat bar are located at both ends.</li> </ul>
③	- Button that passes frame by frame forward
④	- Button that passes frame by frame backward
⑤	- whether the replay currently in progress will be automatically replayed from the

	beginning when the last frame is reached
⑥	- Control contents related to play
⑦	- The frame sequence of currently play and the total number of frames.

## 9.2 CRD Player - 구간반복

- Repeat바를 이용하여 원하는 구간을 반복적으로 재생할 수 있습니다.

No	Screenshot	Description
1		- Repeat Bar for interval playback
2		- Arrow in position ② allows the mouse to adjust the starting point of the interval playback
3		- Raising the mouse cursor changes the UI and allows drag to the desired position as shown in ③
4		- Drag and adjust like number ④
5		- You can check the position of the starting point for interval playback as shown in ⑤
6		- Hover over an area indicating the position of the interval playback starting point as shown in number ⑥ to output the border
7		- Left click of the mouse at the location to display the edit box as shown in No. ⑦ and modify the starting point for interval playback.
8		- After correction of the interval playback start point, press the "Enter" key to change the interval playback start point to that position. - The end point of interval playback can also be changed using the same

		<p>method.</p> <ul style="list-style-type: none"> <li>- Repeat automatically if only the "Loop" function is checked between the beginning and end of the interval</li> </ul>
9		<ul style="list-style-type: none"> <li>- Highlight the Repeat bar when you hover the mouse over the Repeat bar like number ⑨.</li> </ul>
10		<ul style="list-style-type: none"> <li>- Repeat section can be repositioned by dragging Repeat Bar as shown in ⑩</li> </ul>

## 11. ZeroOffset setting

The temperature of the person's face measured by the thermal camera must be much lower than the actual body temperature.

If you want to read the temperature of the person's face measured by the camera to a temperature similar to the actual body temperature, you can set the ZeroOffset of the One channel analyzer.

The default value is 0 and you can enter a value between -20 and 20 degrees to make the temperature reading by the camera appear uniformly raised or lowered.

If you set to 3, and the camera reads facial temperature is 33°C, 36°C is displayed.