

Thermal Network Bullet/Turret Camera**Version:V5.5.18 build190930****Release Note****(2019-11-18 External)****1. General Information**

Firmware Version	V5.5.18 build 190930
SDK Version	V6.1.0.10 build 20190603
Play Lib	V7.3.7.38 build 20190618
iVMS-4200	V2.6.24.3 build 20190723
Web Component/ Plugin Version	V4.0.1 build 20190717/3.0.7.20
VCA Algorithm Version	V3.3.1 build 20190316
Fire Detection Algorithm Version	V1.4.0 build 20180720
Temperature Measurement Algorithm Version	V2.0.3 build 20181121
MCU Version	N/A
B6 Module Version for 2166V1, 2866	FPGA_VERSION:V1.02.01,FPGA_BUILD:BUILD20190724 APP_VERSION:V1.02.02,APP_BUILD:BUILD20190724
B3 Module Version for 2136V1, 2836,	FPGA_VERSION:V1.02.00,FPGA_BUILD:BUILD20190723 APP_VERSION:V1.02.00,APP_BUILD:BUILD20190723



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2636	
F3 Module Version for 2137V1	FPGA_VERSION:V3.00.08,FPGA_BUILD:BUILD20190524 APP_VERSION:V3.00.08,APP_BUILD:BUILD20190524
F1 Module Version for 1217V1, 2117V1, 2617V1	FPGA_VERSION:V2.00.05,FPGA_BUILD:BUILD20190505 APP_VERSION:V2.00.05,APP_BUILD:BUILD20190505
D1 Module Version (AGC4.0) for 2615	FPGA_VERSION:V4.01.03,FPGA_BUILD:BUILD20180723 APP_VERSION:V4.04.04,APP_BUILD:BUILD20190723

2. Supported Model

160Dual Lens Turret	DS-2TD1217-2/V1 DS-2TD1217-3/V1	DS-2TD1217-6/V1
160 Single Lens Bullet	DS-2TD2117-3/V1	DS-2TD2117-6/V1
160 Dual Lens Bullet	DS-2TD2617-3/V1	DS-2TD2617-6/V1
V1 Single Lens Bullet	DS-2TD2136-4/V1	DS-2TD2166-25/V1
	DS-2TD2136-7/V1	DS-2TD2166-35/V1
	DS-2TD2136-10/V1	DS-2TD2137-7/V1
	DS-2TD2136-15/V1	DS-2TD2137-10/V1
	DS-2TD2136-25/V1	DS-2TD2137-15/V1
	DS-2TD2136-35/V1	DS-2TD2137-25/V1
	DS-2TD2166-7/V1	DS-2TD2137-35/V1
	DS-2TD2166-15/V1	
Dual Lens Bullet	DS-2TD2836-25	DS-2TD2866-25
	DS-2TD2836-50	DS-2TD2866-50
V1 Dual Lens Bullet	DS-2TD2836-25/V1	DS-2TD2866-25/V1
	DS-2TD2836-50/V1	DS-2TD2866-50/V1
Dual Lens Bullet	DS-2TD2615-7	DS-2TD2615-10
	DS-2TD2636-10	DS-2TD2636-15
	DS-2TD2636T-10	DS-2TD2636T-15
VP Bullet	DS-2TD2137-7/VP	DS-2TD2137-25/VP
	DS-2TD2137-10/VP	DS-2TD2137-35/VP
	DS-2TD2137-15/VP	

3. V5.5.18 Key Updates

3.1 Added Function

1. Behavior Analysis Rules Copy

When adding a new rule, it can be copied from an existing rule by a single click.

The type, location and parameters of the new-added rule is exactly the same as the source rule.

After the new rule copied, users can also adjust the new rule.

The screenshot shows the 'Rule' tab selected in the navigation bar. Below it is a 'Rule List' table with columns for 'Enable', 'No.', 'Rule Name', and 'Rule Type'. A row is selected, showing 'Line Crossing' as the rule type. The 'Edit' icon in the top right corner of this row is highlighted with a red box.

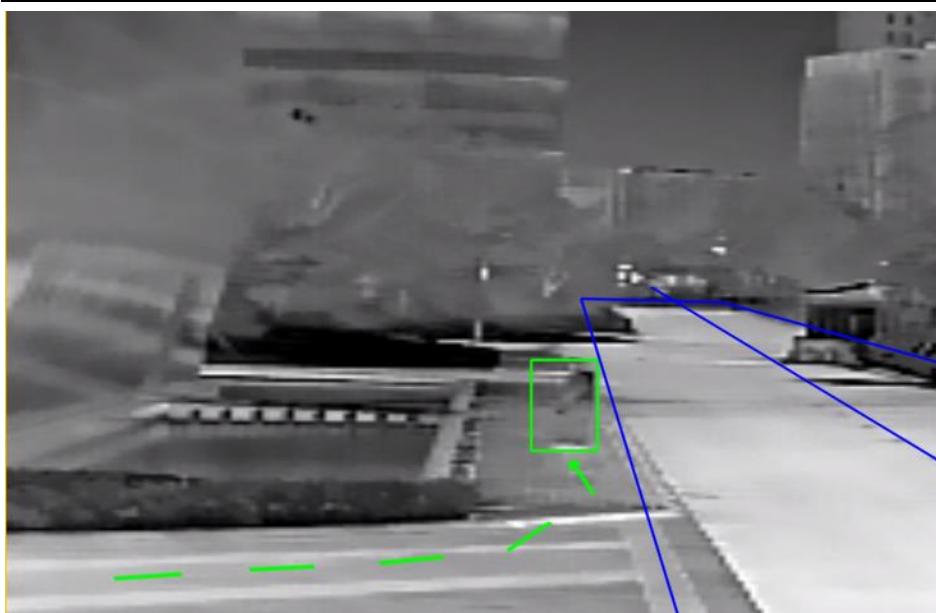
2. Display Trajectory by Player

In this version, the trajectory information can be overlaid by player, which keeps the original video stream intact.

Notice:

In the former versions, trajectory information can only be written into video directly, which changes the original video and affect the intelligent function or image analysis.

The screenshot shows the 'Configuration' tab selected in the navigation bar. On the left is a sidebar with 'Local' selected, containing icons for System, Network, Video/Audio, Image, Event, Storage, VCA, and Temperature Measurement. The main area is titled 'Live View Parameters' and contains various settings. A red box highlights the 'Display Trajectory' section, where the 'Enable' radio button is selected.



3. Temperature Information Adjustments

HIKVISION

Live View Playback Picture Configuration

Local System Network Video/Audio Image Event Storage VCA **Temperature Measurement**

Basic Settings Advanced Settings Linkage Method

Channel No.

Enable Temperature Measurement
 Enable Color-Temperature
 Display Temperature Info. on Stream
 Display Temperature in Optical Channel
 Display Max. Temperature
 Display Min. Temperature
 Display Average Temperature

Position of Thermometry I...

Add Original Data on Capture
 Add Original Data on Stream

3.1 Position of Thermometry Information:

Near Target or Top Left can be selected.

Temperature Info Near Target:



Temperature Info Top Left:



3.2 Display Max/Min/Average Temperature

Max/Min/Average Temperature can be shown individually both in Normal Mode and Expert Mode.



3.3 Display Temperature in Optical Channel

For dual-lens device, after ticking Display Temperature in Optical Channel, the temperature info can be displayed both in thermal and optical channels.



4. Audible Alarm Output and Linkage

Add audible warning linkage function in temperature alarm, behavior analysis alarm, fire detection alarm and smoking detection alarm.

The Alarm Sound Type, Alarm Times, Sound Volume and Arming Schedule of alarm can be configured in the following interface:

Event>Basic Event>Audible Alarm Output

No.	Rule Name	Rule Type

Normal Linkage	Trigger Alarm Output	Trigger Recording
<input type="checkbox"/> Send Email	<input type="checkbox"/> A->1	<input type="checkbox"/> A1
<input type="checkbox"/> Notify Surveillance Center	<input type="checkbox"/> A->2	<input type="checkbox"/> A2
<input type="checkbox"/> Upload to FTP/Memory Card/...		
<input checked="" type="checkbox"/> Audible Warning		

The screenshot shows the Hikvision Configuration interface with the 'Audible Alarm Output' tab selected. On the left, there's a sidebar with icons for Local, System, Network, Video/Audio, Image, and Event. Under 'Event', 'Basic Event' is selected, showing options like Smart Event, Storage, VCA, and Temperature Measurement. The main panel has sections for Motion Detection, Video Tampering, Alarm Input, Alarm Output, Exception, and Audible Alarm Output. Under Audible Alarm Output, 'Alarm Type' is set to 'Temperature Measurement', 'Alarm Sound Type' is 'Temperature abnormality, please deal with it as soon as possible', 'Alarm Times' is '5', and 'Sound Volume' is at 100. Below this is an 'Arming Schedule' section with a grid for days of the week (Mon-Fri) and times (0-24). Buttons for 'Delete' and 'Delete All' are available.

5. Fast Configuration

Both thermal and optical channel support configuring partial functions in Live View Interface

5.1 Fast Configuration in Optical Channel:

(1) Display Settings:

The screenshot shows the 'General' settings for a camera. It includes a 'Display Settings' section with sliders for Brightness (50), Contrast (50), Satura... (50), Sharp... (50), and Noise... (50). There are dropdown menus for Exposure (1/25), WDR (OFF), Digital... (Normal), and a 'Default' button. Below these are collapsed sections for 'OSD Settings' and 'Video/Audio'.

(2) OSD Settings:

PTZ **General**

▼ Display Settings

^ OSD Settings

Display Name
Camer... Camera 01

Display Date

Display Week

Time F... 24-hour

Date F... MM-DD-YYYY

Text OverLay

1

2

3

4

Save

▼ Video/Audio

(3) Video/Audio:

PTZ **General**

▼ Display Settings

▼ OSD Settings

^ Video/Audio

Strea... Main Stream(Nor

Resolu... 1920*1080P

Max. B... 2048 Kbps

Displa... Player

5.2 Fast Configuration in Thermal Channel:

(1) Display Settings:

PTZ **General** VCA

Display Settings

Bright... 50

Contrast 50

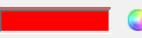
Manua... [DPC(...)]

Therm... [Self-Adaptive]

Palettes [White Hot]

Above (be colored)

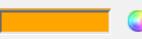
Max 0 °C

Color  

Between (be colored)

Min 0 °C

Max 0 °C

Color  

Below (be colored)

Max 0 °C

Color  

(2) OSD Settings:

PTZ **General** VCA

Display Settings

OSD Settings

Display Name

Cam... Camera 02

Display Date

Display Week

Time F... 24-hour

Date F... MM-DD-YYYY

Text OverLay

1

2

3

4

Save

Video/Audio

(3) Video Audio:

PTZ General VCA

Display Settings

OSD Settings

Video/Audio

Stream: Main Stream(Nor)

Resolution: 320*240

Max. Bitrate: 1024 Kbps

Display Type: Player

(4) Resource Type:

PTZ General VCA

Resource Type

Intelligent Analysis

Enable Dynamic Fire Sourc...

Enable Temperature Meas...

Config: Normal

Expert

3.2 Optimized Function

1. Recommended Filter Size:

1.1 When the Target Detection is selected as **Human**, the Min.Size is recommended as 0.6m*1m(1.968feet*3.28feet), the Max.Size is recommended as 2m*3m(6.56feet*9.84feet)

1.2 When the Target Detection is selected as **Vehicle**, the Min.Size is recommended as 1.8m*1m(5.904feet*4.592feet), the Max.Size is recommended as 5m*10m(16.4feet*32.8feet)

1.3 When the Target Detection is selected as **Human&Vehicle or All**, the Min.Size is recommended as 0.6m*1m(1.968feet*3.28feet), the Max.Size is recommended as 5m*10m(16.4feet*32.8feet)

2. Recommended Emissivity:

The emissivity value is quite important to ensure the accuracy of temperature measurement, the recommended emissivity value is added in this version for both Normal Mode and Expert Mode, making it easier to configure temperature measurement.

The Emissivity is divided into 5 kinds:

Rougher:0.95

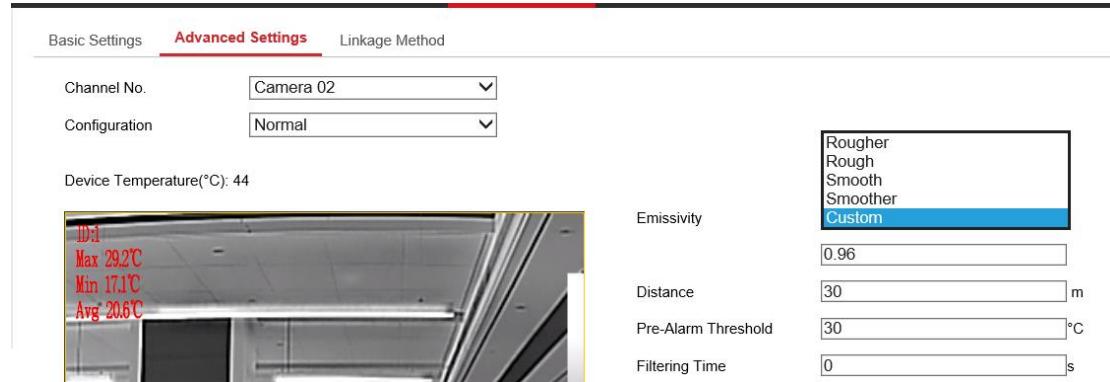
Rough:0.80

Smoother:0.60

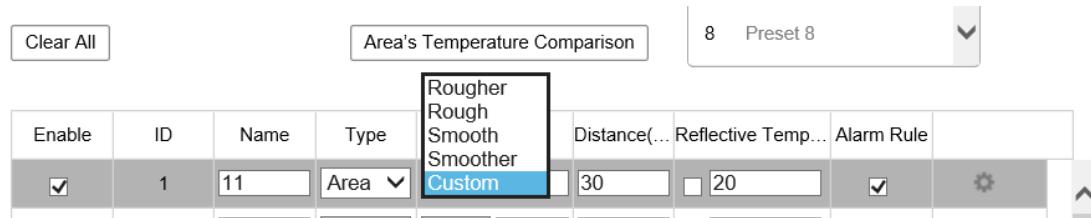
Smooth:0.30

Custom: 0.01~1

Recommended Emissivity in Normal Mode:



Recommended Emissivity in Expert Mode:

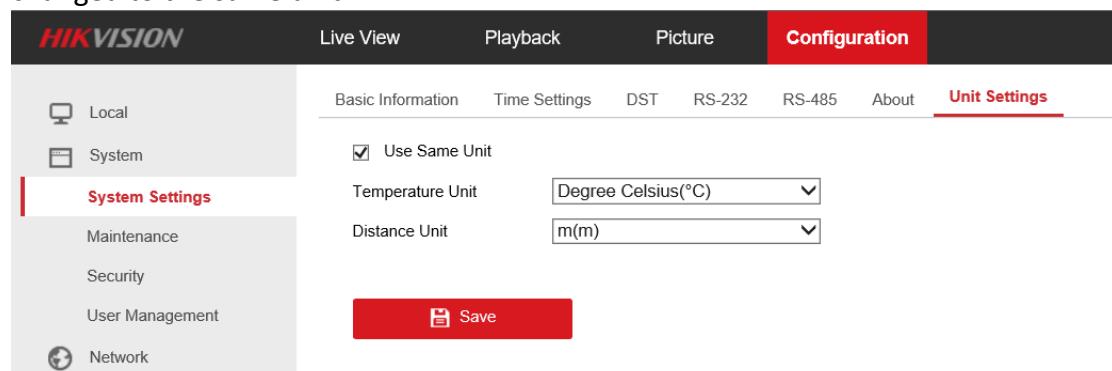


3. Use Same Unit:

The Selectable temperature units include: Degree Celsius, Degree Fahrenheit, Degree Kelvin.

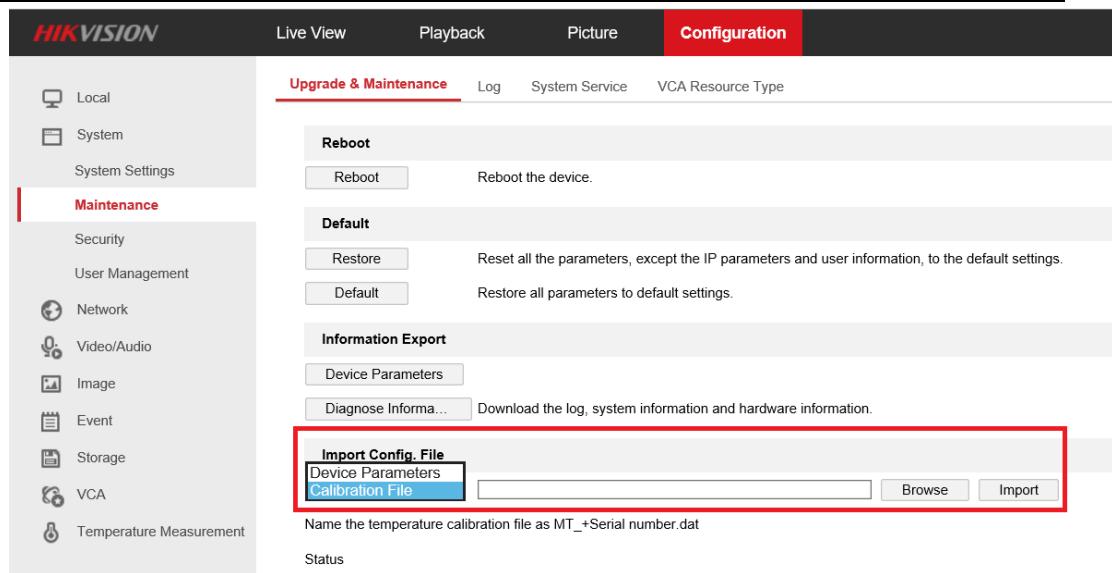
The Selectable distance units include: cm, m and feet

After selecting the Units, click User Same Unit, all the relevant option will be changed to the same unit.



4. Importing temperature measurement calibration file via web:

In the past, the calibration file can only be imported to the camera by a professional tool. This version simplifies the process and makes it possible to import the file via the web interface.



4. Compatibility List

Thermal cameral Version V5.5.18 build 190930					
Test equipment	Milestone	Mirasys	Seetec	ONSSI	Axonsoft
Version	Milestone XProtect series with Corporate 2017 R2	VMS Enterprise, VMS Pro	Cayuga R10	Ocularis 5.4(5.4.0.128)	Intellect 4.10.1
Live view(display VCA info)	√	✗	✗	✗	√
Live view(display Fire point info)	✗	✗	✗	✗	✗
Live view(display Temperature info)	✗	√	✗	✗	✗
Receive VCA Alarm info	√	√	√	√	√
Receive Dynamic Fire Detection info	√	√	✗	✗	✗
Receive Temperature info	√	√	✗	✗	✗
Tips	1. The integration with milestone of fire detection and temperature measurement will be finish in Q3. 2. All thermal cameras support Onvif. 3. We have integrated with Mirasys to provide professional solution such as temperature analysis and historical analysis. 4. We integrated with milestone to show the VCA info by metedata, and the integration of different version of Milestone is as belwo.				

Thermal cameral Version V5.5.18 build 190930						
Test equipment	IVMS-5200E	IVMS-4200	I series NVR	I series NVR	IE explorer	HIK central
Version	V3.3	V2.6.24.3 build 20190723	DS-96XX-I16 NVR V4.1.50 180227	DS-96XX-I16 V3.4.95 customized	IE7+	V1.1.1
Live view(display VCA info)	√	√	√(Web,4200)	√(Web,4200,Local GUI)	√	√
Live view(display Fire point info)	✗	√	√(Web,4200)	√(Web,4200,Local GUI)	√	√
Live view(display Temperature info)	✗	√	√(Web,4200)	√(Web,4200,Local GUI)	√	√
Remote setup VCA rules (Line Crossing,Intrusion,Region Entrance,Region Exiting)	✗	√	√(Web)	√(4200, Web)	√ (Software associated with the browser to configure)	√ (Software associated with the browser to configure)
Setup Dynamic Fire Detection	✗	√	√(4200, only support linkage)	√(4200)	√ (Software associated with the browser to configure)	√ (Software associated with the browser to configure)
Setup Temperature Measurement	✗	√	√(4200, only support linkage)	√(4200)	√ (Software associated with the browser to configure)	√ (Software associated with the browser to configure)
Receive VCA Alarm info	√	√	√(4200)	√(Web,4200,Local GUI)	✗	√
Receive Dynamic Fire Detection info	✗	√	√(4200)	√(Web,4200,Local GUI)	✗	√
Receive Temperature info	✗	√	√(4200)	√(Web,4200,Local GUI)	✗	√
Playback(display VCA info)	√	√	√(Web,4200)	√(Web,4200,Local GUI)	√	√
Playback(display Fire point info)	✗	√	√(Web,4200)	√(Web,4200,Local GUI)	√	√
Playback(display Temperature info)	✗	√	√(Web,4200)	√(Web,4200,Local GUI)	√	√