

Thermal Stable PTZ Camera

Version:V5.5.4 build180722

Release Note

(2018-10-20 External)

1. General Information

Firmware Version	V5.5.4 build 180722
SDK Version	HCNetSDKV5.3.6.5_build20180529
Play Lib	PlayCtrl_V7.3.5.41_Build20180514
iVMS-4200	V2.6.10.3build20180612
Web Component/Plugin Version	V4.0.1 build 180713/ 3.0.6.45

2. Supported Model

DS-2TD8166-75H2F/V2	DS-2TD8166-150ZH2F/V2
DS-2TD8136-75H2F/V2	DS-2TD8136-100H2F/V2



3. V5.5.4 Key Updates

3.1 Added Function

1. Switch to the deep learning algorithm platform, support deep learning algorithm including the following functions:

1.1 Dynamic fire source detection:

	VISION	Live View	Playback	Picture	Configuration	
Ţ	Local	Upgrade & M	laintenance Log	VCA Resource Type		
	System	VCA Re	esource Configuration	on		
	System Settings	Temper	rature Measurement+	Behavior Analysis		
	Maintenance	 Temper 	rature Measurement+	Fire Detection		
-	Security					
	User Management		B Save			
Ð	Network					
<u>.0</u> .	Video/Audio					
1	Image					
므	PTZ					
Ë	Event					
B	Storage					
63	VCA					
6	Temperature Measurement					



1.2 Target detection:

cene Parameters	Rule	Armin	ig Schedule	Alarm Lin	kage				
Rule List									+
Enable	No.		R	ule Name			Rule Typ	e	
\checkmark	1		RULE1			I	ntrusion	~	×
Filter by	Pixel		~	/	Duration		1	s 🥑	
Max. Size	0	* 0	(W*H)	_	Sensitivity		50		
Min. Size	0	* ()	(W*H)		Detection Target		All Human Vehicle Human & Vehicle		



1.3 Colorful temperature interval:



Display Settings	OSD Settings	Picture Overlay	DPC	Picture in Picture	,	VCA Ru	le Displ	lay					
Channel No.	Came	ra 02	~										
				3	۲		4	a a	ť	∼ Image Adjustment			
				1	•	Ü	•	8	P	∽ Focus			
- C	-					•	4	0 0)	Image Enhancement			
		>							4	Digital Noise Reduction	Normal		~
				-	1	Preset	1	×¢ ר	~	Noise Reduction Level			60
			1		2	Preset	2			Palettes	VVNIte Hot		~
	-	-			3	Preset	3			Max	38		°c ⊘
	1				4	Preset	4			Color		9	
с					5	Preset	5			Between (be color	ed)		
6	Z001				6	Preset	6			Min	32		°C 🥑
	1. 11. ·		1997 - <u>1</u> 99	Ø	8	Preset	8		~	Мах	34		°C <
								_		Color		9	
										Below (be colored)		
										Max	31]°C 🥑
										Save		U	
										Save			

temperature color highlight

2. Support one key synchronize FOV(field of view), one key synchronous playback and other operation optimization. After one key synchronize FOV, the size of the target in the dual channels will be all the same, as shown in the following figure.



Synchronize FOV



First Choice for Security Professionals

HIKVISION	Live View	Playback	Picture	Configuration	
in Thermal Camera	Channel No.: 1				
 Camera 01 Camera 02 					
				≪ ▶ № №	
:00	20;00	21;00	22;00	23;00	2018-08-0 <mark>1</mark> 00:00:00

Synchronous Playback

3. Support click-to-thermometry, search history temperature and temperature report. The click-to-thermometry button and the effect of live view is show as the following picture.



Click-to-thermometry



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Live View	Playback	Picture	Configuration	
Basic Settings	Advanced Settings	Linkage Method	Search History temperature	
Channel No.	Camera 02	~		
Preset	Normal	~	Rule Rule1 V Start Date 2018-08-01	1
Display Time Int.	5minute(s)	~	Search Export	
	Temperature/°C			
	50			
	40-			
	30 -			
	20		2010 00 01 02:55:00	
	20-		2018-08-01 03:55:00	
	10-			
	0	000000000000000000000000000000000000000	06:00 12:00	*******
	08-01		08-01 08-01	
		S	earch history temperature	

- 4. Supports double-clicking on the Advanced Temperature Measurement Configuration Interface to zoom in the thermal imaging image to the full-screen function, and supports drawing the temperature measurement rules on the fullscreen thermal imaging image.
- 5. Support picture in picture function, the thermal image could be overlaid on the optical image. And the details of thermal image also can be overlaid on optical channel.



Picture in picture

6. Support thermal image self-adaptive by temperature, the thermal lens will focus according to the change of environment temperature. It will solve the problem



the problem of out of focus. This function can be enabled/disabled, and it is default to be enabled.

7. Support full-screen temperature data acquisition, which can facilitate the development of the third party.

3.2 Optimized Function

1. Thermal image algorithm is upgraded to AGC4.0 version to optimize the image effect, and support AGC mode configuration.



Image AGC mode configuration

2. The laser supplementary effect is optimized to support the laser supplementary area and the current intensity configuration function.

4. Compatibility List

Thermal cameral Version		V5.5	.4 build 180722		
Test equipment	Milestone	Mirasys	Seetec	ONSSI	Axxonsoft
Version	Milestone XProtect series with Corporate 2017 R2	VMS Enterprise, VMS Pro	Cayuga R10	Ocularis 5.4(5.4.0.1 28)	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	√	√	×	×	×



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Thermal cameral Version		V5.5	-		
Test equipment	iVMS-4200	I series NVR	I series NVR	IE explorer	HIK central
Version	V2.6.10.3build201 80612	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)	V	√(Web,4200 associated with the browser to configure)	√(4200, Web)	V	√ (Software associated with the browser to configure)
Setup Dynamic Fire Detection	~	√(Web,4200 associated with the browser to configure, only support linkage)	√(4200)	~	√ (Software associated with the browser to configure)
Setup Temperature Measurement	1	√(Web,4200 associated with the browser to configure, only support linkage)	√(4200)	~	√ (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)	√	√