

NVR5XXX-4KS2_V4.001.0000000.0

Release Notes

ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

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1 Overview

Item		Description					
Product model		NVR5XXX-4KS2 Series					
Version		V4.001.0000000.0					
Software	package	DH_NVR5XXX-4KS2_MultiLang_V4.001.0000000.0.R.20200221.zip					
information		DH_NVR5XXX-4R52_WulliLang_V4.001.0000000.0.R.20200221.2p					
ONVIF version		2.4.1					
OS requirement		None					

2 New Features

Feature	Description
	① Blocked dangerous commands in the system.
	2 Supports disabling unsafe services, and those services are
	disabled by default.
Security baseline V2.1	③ Important operations log.
Security baseline v2.1	④ Network data transfer encryption control.
	5 Non-sensitive data information saved in device-end.
	6 Secondary authentication for restoring factory defaults.
	1 Prompts are added when deleting data.
	① Disk error details are written to log.
	2 Disk error details are written to hddinfo file.
Disk error details	3 Supports exporting hddinfo file along with configuration file for
	system analysis.
	④ Does not support exporting hddinfo file on web.
	① Supports displaying thumbnail pictures for one channel playback
Optimized playback function on	② Supports dragging time bar to view video time table.
local GUI	3 Supports dragging the cursor on the time bar to view images in
	iframe of multiple channels.
	1 Optimized network security settings which support login
	authentication.
	② Supports security mode and compatible mode. Security mode is
Security login authentication	set by default for safety concerns.
	③ Security mode is recommended. A prompt will be displayed when
	compatible mode is selected.

	① Supports recording the information of detected plates in black list/white list.
	② Supports entering information of the car owner and validity when adding plate to black list/white list.
	 Supports displaying the black list/white list information of the
Optimized plate detection	vehicle corresponding to the plate during playback.
	 4 Supports vehicle detection when querying black list/white list.
	 Black list/white list information is added to plate information
	exported file.
	 Supports synchronizing modification of black list/white list to ITC.
	 Supports sending plate detection data to DSS platform.
	 Supports generating IPC offline alarm, event linkage and log
	when an IPC with POE connection goes offline.
POE offline alarm	2 When an IPC with POE connection goes offline, you need to
	manually delete the device which will not be deleted
	automatically in Camera List.
	① Non-motor vehicle face detection is supported, and face is set as
Non-motor vehicle face	an attribute of non-motor vehicle detection.
detection in video structuring	② Supports non-motor vehicle + face displaying mode in AI panel.
	③ Supports searching for face associated non-motor vehicle on
	face detection interface.
New languages	Norwegian, Ukrainian, Hebrew, Turkish, Indonesian.
	1) External 4G module.
4G module	-
4G module	② Supported Model: MF832S.
4G module	 ② Supported Model: MF832S. ① Interface adjustment: Use Security Center as the entry in main
4G module	 Interface adjustment: Use Security Center as the entry in main menu.
4G module	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page.
	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported
4G module Product security UI	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules.
	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the
	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the optimized modules will be displayed in green icon.
	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the optimized modules will be displayed in green icon. 802.1X setting page is moved to SYSTEM submenu.
	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the optimized modules will be displayed in green icon. 802.1X setting page is moved to SYSTEM submenu. Added CA certificate management function.
Product security UI	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the optimized modules will be displayed in green icon. 802.1X setting page is moved to SYSTEM submenu. Added CA certificate management function. Supports enabling 2 channels of AI by camera at the same time.
Product security UI Support for dual-sensor camera	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the optimized modules will be displayed in green icon. 802.1X setting page is moved to SYSTEM submenu. Added CA certificate management function. Supports enabling 2 channels of Al by camera at the same time. Supports enabled 2 channels of different type of Als at the same
Product security UI	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the optimized modules will be displayed in green icon. 802.1X setting page is moved to SYSTEM submenu. Added CA certificate management function. Supports enabling 2 channels of AI by camera at the same time. Supports enabled 2 channels of different type of AIs at the same time.
Product security UI Support for dual-sensor camera with white illuminator and IR	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the optimized modules will be displayed in green icon. 802.1X setting page is moved to SYSTEM submenu. Added CA certificate management function. Supports enabling 2 channels of Al by camera at the same time. Supports enabled 2 channels of different type of Als at the same time. Supports 2 channels of PTZ.
Product security UI Support for dual-sensor camera with white illuminator and IR Support for Multi-Sensor	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the optimized modules will be displayed in green icon. 802.1X setting page is moved to SYSTEM submenu. Added CA certificate management function. Supports enabling 2 channels of AI by camera at the same time. Supports enabled 2 channels of different type of AIs at the same time. Support for Multi-Sensor Panoramic Network + PTZ Camera with
Product security UI Support for dual-sensor camera with white illuminator and IR	 Interface adjustment: Use Security Center as the entry in main menu. Added security status page. Added security information scanning function to detect supported security modules. Added detailed information of security modules, and the optimized modules will be displayed in green icon. 802.1X setting page is moved to SYSTEM submenu. Added CA certificate management function. Supports enabling 2 channels of Al by camera at the same time. Supports enabled 2 channels of different type of Als at the same time. Supports 2 channels of PTZ.

	① Support for associated playback of multi-sensor camera.
	2 Multi-sensor cameras includes: Panoramic 1+1 camera with
	splicing, panoramic 3+1 camera without splicing, double channe
	thermal camera and so on.
Associated playback of	③ When playing back the video of any 1 channel of the multi-sensor
multi-sensor camera	camera, the video is synchronously played with videos of other
	channels in multi-sensor fixed mode.
	④ When playing back the video of 1 channel of multi-sensor
	camera, and select another channel of other cameras, and ther
	only videos of selected channels will be played.
	① Supports waveform display of motion detection sensitivity or
	web.
Motion Detection Waveform	2 Supports setting threshold of motion detection sensitivity.
Display on Web	③ Supports the comparison of motion detection sensitivity value to
	the preset threshold, when the value is larger than threshold, the
	interface glows red; when the value is smaller, the interface glows
	blue.
	① Supports inputting by USB keyboard.
UBS Keyboard	2 USB keyboard can input characters limited to soft keyboard. USB
	keyboard can coexist with soft keyboard.
	① Supports disk health alarm.
	② Supports linkage action for disk health alarm.
	③ In linkage settings, log is enabled and buzzer is disabled by
Alarm Linkage for Disk Health	default.
	④ Disk health detection is conducted once a day in every morning.
	and you can also manually conduct this detection. Every time
	disk health is detected and health status is updated, the linkage
	action will be performed.
	 Supports storage by quota.
	 Supports setting quota for both videos and images.
Quota management	③ Support for the switching of disk quota mode and disk group
	mode.
	The switching of storage mode requires formatting HDD. Our acts and align discussion which is disclosed by default
	 Supports one-click disarming, which is disabled by default. Supports individually disarm linkages such as Burgers. Show
	② Supports individually disarm linkages such as Buzzer, Show Macrosoft and Sand Empile
	Message, Alarm-out Port and Send Email.
	3 The Live interface uses a bell icon on the upper-right corner of video chappeds to display disarming status. The intert bell icon is
One-click disorming	video channels to display disarming status. The intact bell icon is displayed by default, and when disarming is enabled, the bel
One-click disarming	icon is displayed with a slash.
	④ Supports enabling and disabling disarming on the upper-right corner of video channels on Live interface.
	5
	DSS client.

	① The web supports displaying AI alarm on Live interface.
	② Operations on AI panel will be synchronized to the device end.
Al panel on web	③ Support for a switch to open and close AI panel.
	④ Supports displaying attribute settings on AI panel.
	5 Supports displaying linkage pictures on AI panel.
	① Adjusted restoring defaults interface, and simplified one-click
	restoring defaults.
	2 Secondary authentication for restoring factory defaults (admin
Secondary authentication for	user only).
restoring factory defaults and	③ Data in database will be deleted after restoring factory defaults.
formatting HDD	④ Secondary authentication for formatting HDD (admin user only).
	⑤ A dialog box of deleting database option is added when
	formatting HDD, and the selected option is No by default with risk
	warning.
	① Supports visiting devices through SSH service.
SSH Service	② Provides SSH enable switch. After it is enabled, you can visit
	devices through SSH service.
	① Supports subscribing events by time period, and only receive
	event information within the time period
	② Support setting by week and individually setting time period for
APP Do-Not-Disturb mode	each day of the week.
	③ Event type is not distinguished currently, and events will be
	pushed to the APP with no difference.
	① Removed year setting in DST settings.
On timing d DOT formation	② DST is automatically adjusted annually.
Optimized DST function	③ Support for automatic adjustment for year setting configured on
	the client.
	① Support for access of multi-rule people counting camera.
	② Support for multi-rule people counting configuration.
	3 Support for multi-rule linkage configuration and linkage action.
Support for multi-rule people	④ Supports querying and exporting the report of multi-rule people
counting	counting.
	5 Supports sending real-time report of multi-rule people counting to
	platform.
	① People counting configuration interface is displayed by list.
	② Supports adjusting configurations for different people counting
	cameras.
Optimized people counting	③ Supports configuring people counting by preset for speed dome.
interface	④ People counting system includes a variety of types: single rule,
	stereo vision passenger flow, multi-region people counting,
	multi-rule people counting.
	⑤ Queuing configuration interface is displayed by list.

	1	Added a quick operation bar in the local secondary menu for fast
		jumping to the same level menus.
	2	Quick operation bars are added in secondary menu and setting
Quick Operation Bar		pages.
		SEARCH submenu does not support quick operation bar, and
		you can jump to SEARCH submenu from quick operation bar in
		other submenus.
	1	Supports adding remote devices with IPV6 address
Adding remote devices with	2	Supports manually adding remote devices with IPV6 address.
IPV6 address	3	Searching for front-end devices with IPV6 address is not
		supported currently.
	1	If H.265 Auto Change is enabled when adding a camera, the
		added device will be switched to the H.265 encoding and the
		video stream is automatically adjusted according to the
H.265 auto switch		conversion strategy.
n.205 auto Switch	2	Priority of adjusting video stream: Acquiring H.265 value
		recommended by camera > Calculating the average of the sum
		of the maximum and minimum values when the stream is not
		within the H265 code stream range.

3 Fixed Bugs

None.

4 Instructions for New Features

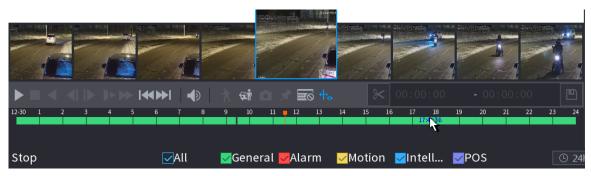
1.4.1. Optimized Playback Function on Local GUI

Playback function on local GUI is optimized and the following functions are added: Time bar dragging, thumbnail pictures displaying for one-channel playback, and dragging to view videos for multi-channel playback.

- i. Click and hold the time bar, and the mouse pointer shall change to a hand icon, and then you can drag to view the playback of the target time.
 - 1. Supports dragging forward and backward. Supports cross- day dragging, and the date in the calendar automatically updates to the target time.
 - 2. Supports dragging in window split mode. The time displayed on time bar changes synchronously when dragging.

1-17	23	1-18	1	2	3	4	5	6 7	8	9	10	11	12	13	14	15	16	17	18
								6 7 06:30:18											
Pla	у						All		iener	al 🖥	Ala	rm	- <mark>- ~</mark> N	/lotio	on 📘	ZInte	ell	- <mark>∼</mark> P	OS

ii. Displaying thumbnail pictures: When playing back video in one channel mode, you can move mouse pointer to time bar for 0.1 seconds to display thumbnail pictures for the video of selected time. 8 pictures before and after the selected time in total will be displayed at most, and 1 picture of the selected time will be displayed.



iii. Multi-channel dragging with picture browsing in iframe. This feature supports prompting a pop-up window for thermal event linkage. When playing back videos, you can drag the vertical orange line on the time bar to rapidly view the playback in iframe format.

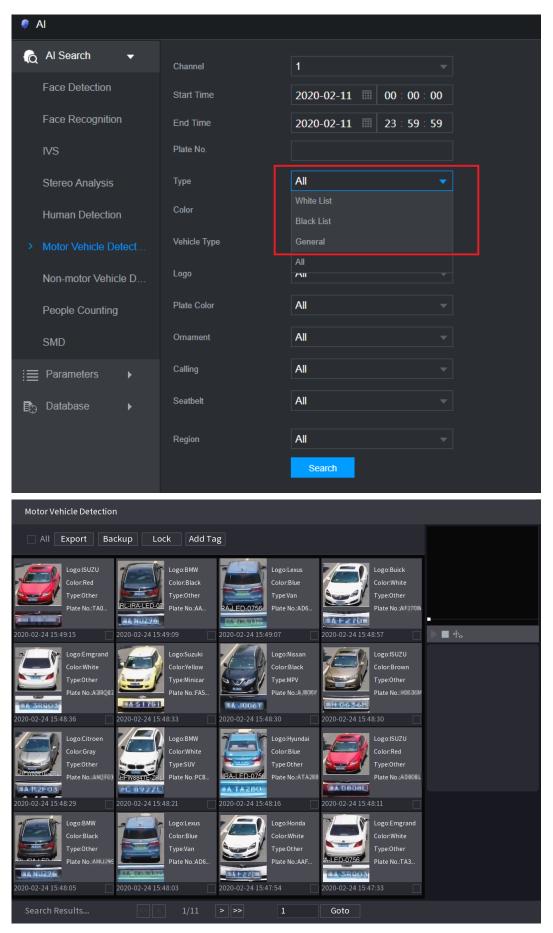
1-18	1	2	2	3	4	5	6	7	8	9	1	0	11	Ţ.	12	13	14	15	1	6	17	18	19	20) 21
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Sto	р						\checkmark	۹ll		~	Ger	nera	al	~	٩lar	m	<mark>∼</mark> N	loti	on		nte	ll		POS	;

1.4.2. Optimized Plate Detection

i. Updated car owner information in black list/white list: owner name and valid period are now added to black list/white list.

Plate No.			Owner Name		
Туре	All				
No.		Plate No.	Owner Name	Valid	Period
1		ABSADD123	WYY	2020-01-21 00:00:00	- 2020-03-30 23:59:59
		Add			
			ie No. ner Name e	White List	
		Val	id Period	2020-01-21 == 00 00 00 00 2020-01-21 == 23 59 59	
1/1 > 2				ОК Сапс	

ii. Black list/white list status of detected plates during playback: Support displaying the black list/white list status of the license plate during playback. You can also search motor vehicles by black list, white list or general type.



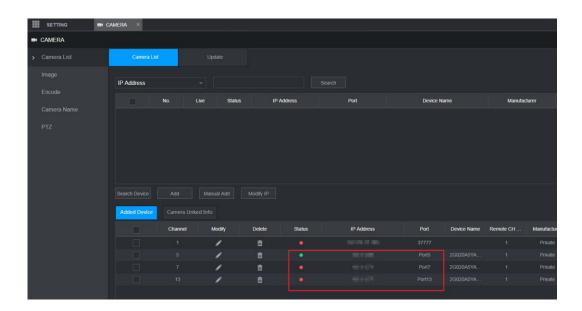
iii. Synchronizing black list/white list information to ITC: The change of black list/white list configurations on NVR will be synchronized to ITC that supports black list/white list function. And the NVR will not process the ITC's black list/white list information which is not from NVR. In other words, the NVR does not affect the original black list/white list information on the ITC.

iv. Sending plate detection data to DSS platform: The NVR sends plate information that is detected by NVR to DSS platform, which includes plate number, plate snapshot, vehicle body picture, vehicle panoramic picture.

1.4.3. POE Offline Alarm

The NVR supports sending an alarm when the device connected to POE port goes offline, and you need to manually delete the device which will not be deleted automatically in **Camera List**. When the camera is offline, text of login timeout will be overlaid on the channel screen.

i. Optimized POE channel connection status. When the cable of the POE channel is unplugged, the channel information is kept and needs to be manually deleted. When you move an IPC from one POE port to another, the original POE port information still exists and the status is offline. See the following figure.



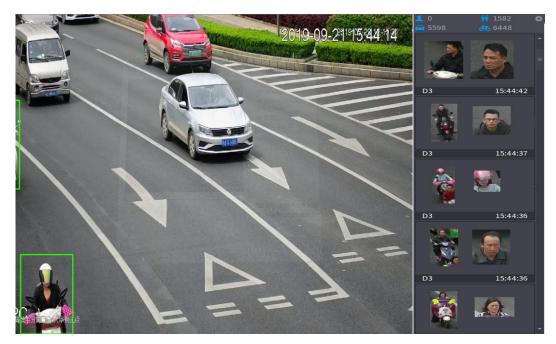
ii. When the IPC connected to POE port goes offline, the NVR will trigger an IPC offline alarm, and perform linkage operation and write an offline record to log.

	ALARM					
	Alarm Info		Network	CAM Ext	CAM Offline	
	Alarm Subscription					
>	Alarm-in Port	Channel	1			
	Alarm-out Port	Enable				
	Video Detection	Post-Record	10			
	Audio Detection	Alarm-out Port	Setting			
	Thermal Alarm	Record Channel				
	Exception		1 2			
	Disarming	PTZ Linkage				
		Alarm Tone	None			
			More			

1.4.4. Non-Motor Vehicle Face Detection in Video Structuring

Face is added as an attribute of non-motor vehicle detection. This feature supports non-motor vehicle + face display mode.

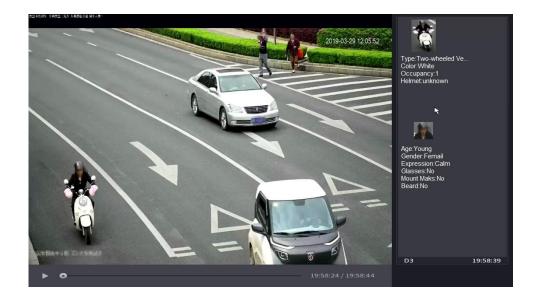
i. The attribute of face is added to non-motor vehicle detection. When a face is detected on the non-motor vehicle in live view, playback or searching result, the face picture and related attributes will be displayed along with non-motor vehicle information. When no face is detected, only non-motor vehicle information will be displayed.



ii. Non-motor vehicle + face mode selection is added for the display mode settings in Al search.

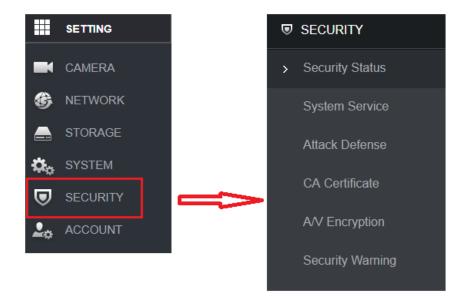
Properties
Face Human Motor Ve Non-Moto Attribute: Attribute: Attribute: Attribute: Attribute: Attribute: Attribute: Attribute: Image: Classical and I
Channel Time Channel Time
Select attributes to display.(Max four) Color Type Occup Helmet
OK Cancel

iii. The searching condition remains unchanged: non-motor vehicle. When a face is detected, the face picture and related attributes will be displayed along with non-motor vehicle information. When no face is detected, only non-motor vehicle information will be displayed.



1.4.5. Product Security UI

i. The user interface of product security is adjusted, and all modules are integrated in **Security Center** as the entry in main menu. Those modules include: Security status, system service, attack defense, CA certificate, A/V encryption and security warning.



ii. Security status and security module scanning are added.

SECURITY ×					2020-02-10) 11:54:46 Mon	.		0,0 0,0	Ą
										_ >
	Secur	ity Status								
	Security sca way.	nning can help you g	et a whole picture of	device security statu:	s in real time and use th				Resca	an
	The last sca	nning time: 2020-02-								
•	User & Servic	ce Detection(Detec	t whether the curr	ent configuration c	onforms to recomme	endation.)				
(0									
Co	nfiguration Details	Login Authenti								
	Security Mod	ules Scanning(Sca	an the running stat	us of security mod	ules except whether	they are enable	ed.)			
	i i	¥	*	+		802.1X		+		
Aud	dio/Video Tr	Trusted Protec	Security Warning	Attack Defense	Firmware Encr	802.1x	Backg	ground S		
		CA.								
	onfiguration	CA Certificate	Log Security	Session Security						
0	mgarauon	CACentilicate	Log Security	Session Security						

1.4.6. Support for Dual-Sensor Camera with White Illuminator and IR

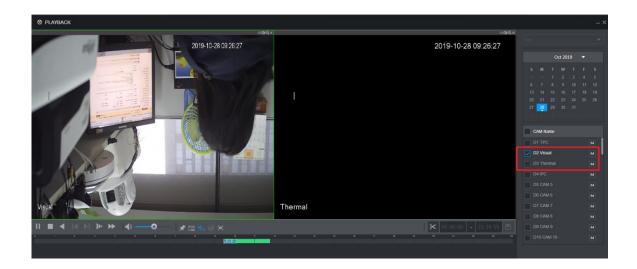
The NVR supports stereo vision cameras, and supports enabling intelligent function combination of two channels according to the camera capabilities. The supported function combination is as follows, and PTZ control of two channels is also supported.

Channel	Panoramic Camera	Detail Camera
Combination 1	Video structuring	Face comparison
Combination 2	/	Video structuring
Combination 2		Face comparison
Combination 3	Crowd distribution	Video structuring
Combination 4	Crowd distribution	Perimeter
Combination 5	Perimeter	/

1.4.7. Associated Playback of Multi-sensor Camera

When playing back the video of any 1 channel of the multi-sensor camera, the video is synchronously played with videos of other channels, and the display mode is the same with multi-sensor live view mode. The following multi-sensor cameras are mainly included:

i. Panoramic 1+1 camera with splicing



ii. Panoramic 3+1 camera without splicing. The videos of 3 channels are displayed on upper side, and the video of the left 1 channel is displayed on lower side.

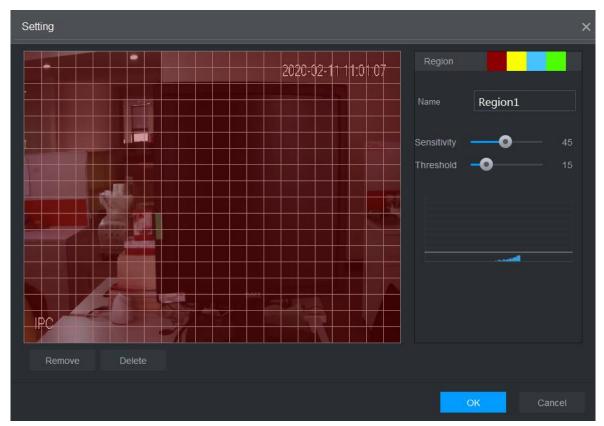


iii. Thermal imaging is displayed like channel 2 in the following figure.



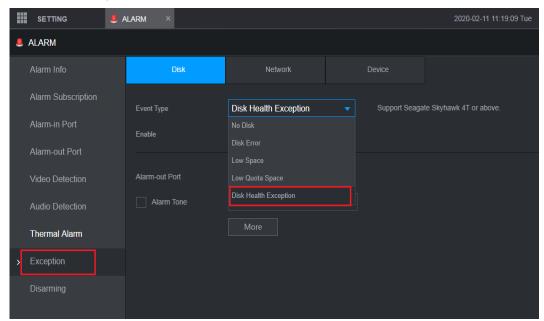
1.4.8. Motion Detection Waveform Display on Web

The NVR supports motion detection waveform display on web, when the value of motion detection is larger than preset threshold, the interface glows red; when the value is smaller, the interface glows blue.



1.4.9. Disk Health Alarm Linkage

The NVR adds alarm detection and linkage for disk health. Disk health detection is conducted once a day in every morning, and you can also manually conduct this detection. Every time disk health is detected and updated, the linkage action will be performed.



1.4.10. Quota Management

i. The NVR supports quote management. Disk group mode is selected by default, and cannot be enabled with quota mode at the same time. You can switch storage mode on the interface below.

_	STORAGE				_ X
	Basic	Disk group mode selected.	Switch to Quota Mode		
	Schedule	Channel			·
	Disk Manager Record Mode	Record Duration(Days)			
	Kecola Mode	Bit Rate(Kb/S)			
	Disk Group	Reference Bit Rate	1024-20480Kb/S		
>	Disk Quota	Estimated Capacity of Recorded Video (GB)			
	FTP	Storage Capacity of Picture (GB)			
		Used Capacity of Recorded Video (GB)			
		Used Capacity of Picture (GB)			
		HDD Capacity (GB)			
		Quota Capacity (GB)			

ii. Quota management allows storage capacity to be set by channel, and videos and images can be configured separately, and the remaining configurable space is automatically calculated.

_	STORAGE											
	Basic	Disk quota mode selected.										
	Schedule	Channel	1 -									
	Disk Manager Record Mode	Record Duration(Days)	1									
	Disk Group	Bit Rate(Kb/S)	4096 -									
		Reference Bit Rate	1024-20480Kb/S									
>	Disk Quota	Estimated Capacity of Recorded Video (GB)	42.19									
	FTP	Storage Capacity of Picture (GB)	6									
		Used Capacity of Recorded Video (GB)										
		Used Capacity of Picture (GB)										
		HDD Capacity (GB)	1846.38									
		Quota Capacity (GB)	1798.19									

iii. The interface will display a message indicating HDD quota capacity is insufficient, and will continuously prompt for insufficient quota capacity on local live view interface.

STOF	RAGE					
Basio		Disk quota mode selected.				
	edule	Channel		1		
	Manager ord Mode	Record Duration(Days)		1		
		Bit Rate(Kb/S)		4096		
Disk		Reference Bit Rate		1024-20480Kb/S		
> Disk	Quota	Estimated Capacity of Recorded Vid	leo (GB)	42.19		
FTP		Storage Capacity of Picture (GB)	Note			
		Used Capacity of Recorded Video (vitching, it takes effect a re you sure to switch fro a mode?		
		Used Capacity of Picture (GB)				
		HDD Capacity (GB)		ОК	Cancel	
		Quota Capacity (GB)				

1.4.11. One-click Disarming

 The NVR supports one-click to disarm all alarm linkages, such as Buzzer, Show Message, Alarm-out Port, Send Email, Report Alarm. The Disarming checkbox is canceled by default, and all alarm linkages will be triggered according to original settings.

SALARM		
Alarm Info	Disarming	
Alarm Subscription	Disarm Alarm Linkage Actio	on
Alarm-in Port		All
Alarm-out Port		Buzzer
Video Detection		Show Message
Audio Detection		Alarm-out Port Send Email
Thermal Alarm		Report Alarm
Exception		
> Disarming		

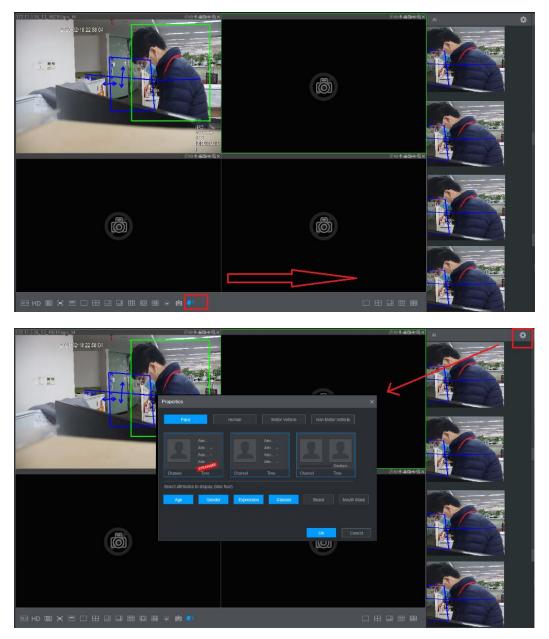
ii. The **Live** interface supports one-click disarming, and it uses a bell icon on the upper-right corner of video channels to display disarming status. When the bell is disabled, the disarming function is enabled and no alarm linkage will be triggered. When the bell is enabled, the disarming function is disabled and all alarm linkages will be triggered according to original settings.



iii. Supports one-click disarming function on DSS and Imou client.

1.4.12. Al panel on web

The **AI** panel on web supports the same functions as on local GUI. It can display intelligent events in real time, and display intelligent pictures and intelligent properties. When AI panel is enabled, you can find AI related information on the right side, and the supported intelligent events include: IVS, face detection, face comparison, video structuring, and plate detection.



1.4.13. SSH Service

The NVR supports SSH service and provides a SSH enable switch. SSH service is disabled by default.

SECURITY					
Security Status	Basic Services		802.1x	HTTPS	
> System Service	Mobile Push Notifications				
Attack Defense CA Certificate	CGI				
OA Certificate	ONVIF				
A/V Encryption	NTP Server				
Security Warning					
	Enable Device Discovery				
	Private Protocol Authenticatio	n Mode	Security Mode (Rec	CO 🔻	

1.4.14. Optimized DST Function

The setting of year in DST is removed bacause it has no practical use. The new DST function is compatible with the settings on previous devices, and also compatible with the settings on the client whether year is set or not.

> General	Basic	Date&Time	Holiday
Serial Port	System Time	2020-02-11 🔳 14 : 35 : 57	Sync PC
	Time Zone	(UTC-04:00) Georgetown, La Paz	, Manaus, 🔻 Save
	Date Format	YYYY MM DD -	
	Date Separator		
	Time Format	24-Hour	
	DST		
	Туре	💽 Date 🔵 Week	
	Start Time	Jan - 1 - 00 :	00
	End Time	Jan 🔻 1 💌 00 :	00
	Server Address	time.windows.com	Manual Update
	Port	123	(1-65535)
	Interval	60	min.(0-65535)

1.4.15. Multi-Rule People Counting

i. When a multi-rule people counting camera is added, you can configure corresponding settings, event storage and linkage actions.

People Counting Queuing							
	2020-02-10.21:57#6	Channel			2		
		No.	E	Name	Preset	Туре	
				Rule1		People Co	
Idea							
12		OSD			Reset		
		People	Counting	g Alarm			
Draw Area	Remove	Enter No			0		
Draw Rule	Remove	Exit No.			0		
		Strand N			0		

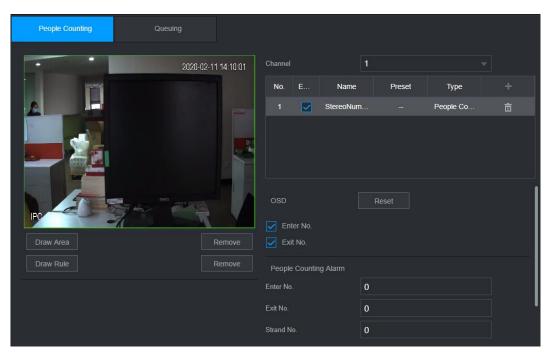
ii. The NVR supports querying and reporting in charts of multi-area people counting, and also supports querying and reporting in charts of set rules of detected areas.

	AI																	_ >
Q	Al Search	•				2					Sea	irch						
	Face Detection		Rule			Peopl	e Count	ting										
	Face Recognition					Pictur	Ð				Exp	port						
			Report Ty			Daily						hours.						
	Stereo Analysis		Region			Rule1												
	Human Detection		Start Time			2020-	02-11		00 : 0		End Tim			2020-	02-12	00		
	Motor Vehicle Def	tect	Direction			🗾 Eni	er 🔽)isplay \								
	Non-motor Vehicle		Bar	Chart	Li													
>																		
	SMD																	
:≡			7 · 9 6															
Ð	Database		People No.															Enter Exit
			e 4 3															
											11 12 hr.							

1.4.16. Optimized People Counting Interface

People counting configuration interface is unified for the compatibility with different cameras of various types and rules that support people counting, and the interface provides configuration rules list according to the type of rules supported by different cameras. You can only add one rule in the list for cameras supporting only one rule, and multiple rules for cameras supporting multiple rules. The content of configuration rules varies with different cameras.

i. You can only add one rule in the list for cameras supporting only one rule. The + turns grey after one rule is added.



ii. You can continue to add rules in the list for cameras supporting multiple rules.

People Counting Queuin	ng						
	2020-32-10.22:19338	Channel			2		
		No.	E	Name	Preset	Туре	
Rule1				Rule1		People Co	亩
	-						
		OSD			Reset		ĺ
		030			Reset		
Demulara	Daman	People	Counting	g Alarm			_
Draw Area	Remove	Enter No.			0		
Draw Rule	Remove	Exit No.			0		
		Strand No			0		

iii.

People Counting	Queuing							
	R118)+	02-11335150	Channel		2			
				No.	Nan	ne	Туре	
					Rule		Queuing	ā
					Rule		Queuing	亩
	7				Rule	e4	Queuing	Ō
Rule4								
			Paramete					
				Queu	e People No	o. Alarm		
				able				
Draw Rule	F	Remove	Туре			Greater	Equal	
Diawitaic		Keniove	Queue P	eople No.		30		Human
		Queue Time Alarm						

Queuing configuration interface provides configuration list as people counting configuration interface.

1.4.17. Quick Operation Bar

Quick operation bar is added to local GUI for fast jumping and better user experience. You can use quick operation bar to jump to other submenus of the same level.

🔔 ALARM	🛇 🏶 🤳 🔚 🗘 🗘 🖳 🎧	
Alarm Info	Disarming	
Alarm Status	Disarm Alarm Linkage Action	
Alarm-in Port		
Alarm-out Port	ש את ש Buzzer	
Video Detection		
Audio Detection	Show Message	
Thermal Alarm	Alarm-out Port	
Exception	Send Email	
Disarming	🗹 Report Alarm	
Disarining		
	Default	Apply Back

	CAMERA		•	_	* . 🛡	L _\$		LIVE	
> Ca	mera List C	amera List	Device Statu	IS	Firmware		Update		
	age	IP Address			Search		Uninitialized		Initialize
Ov	rerlay	115	Modify	Live	Sta	atus	IP Address		Manufa 🔺
En									Private ≡
Ca	mera Name		ï				TO LET M		Private
									Private
Po	E		ľ						Private
PT									Private
			Ĩ	LIVE			TUTTER		Private 👻
		Search Devic	e Add	Manı	ual Add M	Modify II	2	Filter None	9 –
		Added Devic	e Camera Li						
		Channel	Modify	Delete	Status	IP Add	lress	Port	Device 🖍
		D1				100.0		37777	camera _
		D2	ľ	亩	•			37777	4D007D
		D3				11112		37777	4M029C
		D4	ľ	ā		- 111.12	8.28. <u> </u>	37779	IVSS
		D5				11111	3.101	37777	IVSS
		D6	ľ	<u>.</u>	•		345.54	37777	YH630-F -
			H.265 Auto					Import	Export
		Remaining B	andwidt	297.21MI	bps/328.00N	ibps			

5 Compatibility

This new baseline version is based on the version of Security Baseline 2.1, and it can be rolled back to the versions after Security Baseline 1.4, but cannot be rolled back to a version prior to Security Baseline 1.4.

6 Software Environment

Model	Version
DH-IPC-HFW2231SN-S-0280B-	DH_IPC-HX2XXX-Mole_MultiLang_NP_V2.800.0000000.3.R.190816.z
S2	ip
DH-IPC-HFW2831TP-ZAS-2713	DH_IPC-HX25(8)XX-Mole_MultiLang_PN_V2.800.0000000.6.R.19102
5-S2	3.zip
DH-IPC-HDW3241TP-ZAS-2713	DH_IPC-HX3XXX-Leo_MultiLang_PN_Stream3_V2.800.0000000.4.R.
5	190927.zip
DH-IPC-HFW5442EP-ZE-2712	DH_IPC-HX5XXX-Volt_MultiLang_PN_Stream3_V2.800.0000000.8.R.
DII-IF C-IIF W3442EF-2E-27 12	190902.zip
DH-IPC-HDW5241TMP-AS-0280	DH_IPC-HX4XXX-Volt_MultiLang_PN_Stream3_V2.800.0000000.8.R.
В	190902.zip
DH-IPC-HDW5241HP-AS-PV-02	DH_IPC-HX5XXX-Volt_MultiLang_PN_Stream3_V2.800.0000000.8.R.
80	190902.zip
DH-IPC-HDW5241TMP-AS-LED-	DH_IPC-HX4XXX-Volt_MultiLang_PN_Stream3_V2.800.0000000.8.R.
0280B	190902.zip

Model	Version
DH-IPC-HFW7442HP-Z-2712F-D C12AC24V	General_IPC-HX8XXX-Nobel_MCU_V2.800.0000000.2.R.190709.zip DH_IPC-HX8XXX-Nobel_MultiLang_PN_V2.800.0000000.2.R.190709. zip
DH-IPC-HDBW7842HP-Z-2712F -DC12AC24V	General_IPC-HX8XXX-Nobel_MCU_V2.800.0000000.2.R.190709.zip DH_IPC-HX8XXX-Nobel_MultiLang_PN_V2.800.0000000.2.R.190709. zip
DH-IPC-HDBW7442HP-ZFR-271 2F-DC12AC24V	General_IPC-HX8XXX-Nobel_MCU_V2.800.0000000.2.R.190709.zip DH_IPC-HX8XXX-Nobel_MultiLang_PN_V2.800.0000000.2.R.190709. zip
DH-IPC-HDW8341XP-3D-0280B	DH_IPC-HX8X4X-Kronos_Eng_P_Stream3_V2.622.0000000.5.R.1812 15.zip
DH-IPC-PDBW5831P-B360-E4-2 712	DH_IPC-HX8(5)XXX-Sag_EngSpnFrn_PN_V2.622.0000000.22.R.190 225.zip
DH-IPC-PDB4830P-B360-E4-03 60B	DH_IPC-HX8(5)XXX-Sag_EngSpnFrn_PN_V2.622.0000000.22.R.190 225.zip
DH-PSDW5631SP-B360-E4-D20 4-DC12V	General_IPC-HX8(5)XXX-Sag_Eng_PN_V2.622.0000000.20.R.190110 .zip
DH-IPC-EB5531	DH_IPC-HX5X3X-Rhea_MultiLang_NP_Stream3_V2.800.0000010.0.R .190807.zip
DH-IPC-EBW8630P	DH_IPC-HX8XXX-Nova2_EngSpnFrn_PN_Stream3_V2.622.0000000. 7.R.190619.zip
DH-IPC-EBW81242	DH_IPC-EBW8XXXX-Fafnir_MultiLang_PN_Stream3_V2.800.0000000 .0.R.190520.zip
DH-PSDW81642	DH_IPC-PSDW8XXX-Fafnir_EngSpnFrn_PN_Stream3_V2.680.00000 00.1.R.190517.zip
DH-IPC-HCBW8442P	DH_IPC-HX5XXX-Volt_MultiLang_PN_Stream3_V2.800.0000000.1.R. 190706.zip
ITC237-PU1B-IR	General_ITC237-PU1B(PW1B)-IR(IRZ)(L)_Eng_PN_Oversea_Europe _V2.622.0000000.1.R.181114.zip
ITC237-PW1B-IRZ	General_ITC237-PU1B(PW1B)-IR(IRZ)(L)_Eng_PN_Oversea_Europe _V2.622.0000000.1.R.181114.zip
ITC215-PW4I	General_ITC215-PW4I-XXX_Eng_PN_Oversea_ITCPUSH_EuropeEN TRANCE_V2.623.0000000.1.R.190820.zip
ITC952-RF2D	General_ITCXX2-RF2D-IR_Eng_PN_Oversea_3G_V2.622.0000000.7. R.190321.zip
ITC352-RF2D	General_ITCXX2-RF2D-IR_Eng_PN_Oversea_3G_V2.622.0000000.7. R.190321.zip
ITC314-PH2A	General_ITCXX4-PH1B(PH1C)(PH2A)-(TF2)_Eng_PN_Oversea_Euro pe_V2.622.0000000.1.R.180418.zip
DH-TPC-SD8X21	DH_TPC-SD8X21-TB_MultiLang_PN_V2.630.0000000.0.R.190831.zip
DH-TPC-SD2221-T	DH_TPC-SD2221-TB_EngltlSpnFrn_PN_V2.630.0000000.1.R.190530. zip

Model	Version					
	General_SDT5XXXX-HN-WA-V_MCU_V2.401.0000000.53.R.191028.z					
SDT5X225-2F-WA	ip					
3D13A223-2F-WA	DH_SD-Fafnir_Eng_PN_Stream3-LingtongV2_V2.810.0000000.99.D.1					
	91028.zip					
DH-SD8A240WA-HNF	DH_SD-Fafnir_Eng_P_Stream3_V2.623.0000000.13.R.190227.zip					
	General_SD5AXXX-HN_MCU_V2.401.0000000.41.R.190712.zip					
DH-SD5A445XA-HNR	General_SD-Prometheus_MultiLang_NP_Stream3_V2.800.0000000.1					
	5.R.190802.zip					
DH-SD49425XB-HNR	General_SD5AXXX-General_SD-Prometheus_MultiLang_PN_Stream3					
DI 1-3D49423AB-I INK	_V2.800.0000000.19.R.190902.zip					
DH-SD1A404XB-GNR	DH_SD-Prometheus_MultiLang_PN_Stream3_V2.800.0000002.3.R.19					
DI-3DTA404AB-GNK	1121.zip					
DH-PTZ1C203UE-GN	DH_SD-Eos-Civil_MultiLang_PN_Stream3_V2.800.0000000.5.R.1908					
DI-F12102030E-GN	27.zip					
DH-SD6CE230U-HNI	DH_SD-Eos_MultiLang_PN_Stream3_V2.800.0000000.5.R.190827.zip					
DH-SD29204UE-GN-W	DH_SD-Eos-Civil_MultiLang_PN_Stream3_V2.800.0000000.5.R.1908					
DH-3D292040E-GN-W	27.zip					
DHI-VTO7541G	General_VTO75XXX_Eng_P_SIP_V1.000.0000000.9.R.190724.zip					
DHI-VTO2202F-P	General_VTO2202F_MultiLang_PN_SIP_V4.400.0000000.2.R.201909					
	19.zip					
DHI-VTO6421F	General_VTO64XXF_Eng_P_128M_SIP_V1.000.0000001.0.R.201905					
Di 11- V 1 0042 11	17.zip					
DSS PRO	General_OverseasDSS-PRO_Win64_IS_V7.002.10AU003.0.R.201911					
	13.exe					
DSSC9100/C9505	General_DSSC9100_MultiLang_Phoenix_V3.000.0000011.0.R.1912					
	.tar.gz					
playsdk	General_PlaySDK_MacOS64_IS_V3.042.0000000.2.R.190926.zip					
DMSS	General_DMSS-Android-Phone-Plus-Device_MultiLang_Basic_IS_V4.					
DMSS	050.000008.2.R.190924.apk					
Player	General_SmartPlayer-Win32_Eng_IS_V4.000.0000001.4.R.191009.zip					
NetSDK	General_NetSDK_ChnEng_iOS_IS_V3.051.0000005.2.R.191029.zip					
NKB1000	Customer_NKB1000_TurEng_V2.620.13KB100.0.R.20190425.bin					
NKB5000	General_NKB5000_MultiLang_V3.212.0000000.1.R.191203.BIN					

7 Pending Issues

None.

8 Update Guide

This product can be upgraded in 3 ways, including ConfigTool, local USB disk and WEB client interface.

The upgrade time depends on the question whether the device has smart module. It takes about 2-3 minutes to upgrade the version without extension module, and about 7 minutes to upgrade the version with smart module (irrelevant with quantity of smart modules).

VSS takes protective measures to deal with abnormal power-off during upgrade. Upgrade will fail in case of power-off during upgrade, so the user shall try to avoid power-off.

i. ConfigTool (Based on V4.0.9 and Later Version)

Install Configtool $-\rangle$ Add Device $-\rangle$ Select upgrade file and upgrade.

Open ConfigTool to search the NVR and IPC in the same network segment, or you can manually enter the IP to search, and update the NVR that needs to be updated. The ConfigTool interface is displayed as follows:

Ņ		2 c	evices found	. 🕤	Search setting				₹ - ×
R			IPC	SD DVR Others	Uninitialized	IPV4 -			Q,
	N	O. Status	Туре	Model	IP	MAC	Version	Opera	te
	1	Initialize	d PC-NVR	PC-NVR-V3.0	10.33.11.43	8C:DC:D4:38:86:47	3.0.0.0	0	6
	2	Initialize	d PC-NVR	PC-NVR-V3.0	10.33.11.13	30:9C:23:76:AE:E4		0	()
× Ť									
	谢 Ini	tialize	Decision In the second	* 0 devices select	ed	📥 Import 👔	💁 Export	🕂 Add	Delete

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