

# DH\_XVR5x04-I2\_MultiLang\_V4.001.0000001.2.R.201029

**Release Notes** 

ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

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### 1.1 Overview

ltem	Description			
Product model	DIGITAL VIDEO RECORDER			
Version	DH_XVR5x04-I2_MultiLang_V4.001.0000001.2.R.201029.zip			
Software package	DH-XVR5104HS-I2; DH-XVR5104H-I2; DH-XVR5104HE-I2			
information	DH-XVK5104H3-12, DH-XVK5104H-12, DH-XVK5104HE-12			
OS requirement	None			
Release date	2020-11-06			

### **1.2 Functions and Applications**

This series product can work with devices such as camera, HDD to monitor the specified scenarios and play back the recorded video files. It can monitor, playback and support remote surveillance once the device is connecting to the network. It supports cellphone monitor from anywhere at anytime through the Internet.

This series product supports five camera signals (CVI, AHD, TVI, CVBS, and IPC) and is compatible with the popular signal types on today's market. It can use the original coaxial cable and support network cable too. It is suitable to update the current system, at the same time; it can meet the expansible requirements of new projects.

CVI product has entered the H.265 era. With the lower bit rate and more advanced compression technology, it can reduce storage space and network transmission data. The device supports AI functions such as SMD plus, face detection, face recognition, and IVS, making video surveillance more intelligent.

### **1.3 New Features**

For new H.265 series products with new software security baseline, the following features are added:

No.	Feature	Description		
	Y	Compared with H.265, AI codec can reduce up to 50% bit rate and		
	AI Coding	storage requirements while have no loss of decoding compatibility,		
1		providing clear human and vehicle details.		
		The default setting of Coding Strategy is changed from General to		
		Al Codec.		
2	AI Mode	SMD, Face, IVS&SMD		
3	Items added in disarming:	Supports one-click arming and disarming with all linkage actions;		
3	Siren and warning light	added siren and warning light linkage actions.		
4	5M camera access	Supports access of 2880 x 1620 resolution 5M camera.		
5	SMD Plus	SMD of all supported channels are enabled by default.		

Features might vary from different models, and the actual product shall prevail.

# **1.4 Instructions for New Features**

# 1.4.1 AI Coding

i. Select Main Menu > CAMERA > Encode > Audio/Video.

The Audio/Video interface is displayed as follows.

CAMERA		🍪 🚔 🍫 🛡	<b>L</b> o	LIVE	
Image	Audio/Video Sna	apshot			
> Encode	Channel	1 *			
Overlay	Main Stream		Sub Stream		
PTZ	Coding Strategy	Al Codec 🔹	Video		
Channel Type	Туре	General 🔹	Stream Type	Sub Stream1	
HDCVI Update	Compression	H.265 🔹	Compression	H.265	
	Resolution	1920x1080(1080P) -	Resolution	352x288(CIF)	
	Frame Rate(FPS)	15 🔹	Frame Rate(FPS)	15	
	Bit Rate Type		Bit Rate Type	CBR	
	Quality		Quality		
	I Frame Interval	1sec. 🔻	I Frame Interval	lsec.	
	Bit Rate(Kb/S)	1024 -	Bit Rate(Kb/S)	160	
		More		More	
	Default	Copy to		Apply	Cancel

#### ii. Configure the settings for the main/sub streams parameters.

Parameter	Description					
Channel	In the Channel list, select the channel that you want to configure the settings for.					
Coding Strategy	<ul> <li>Al Codec: Enables the Al codec function. This function can reduce the video bit stream for non-important recorded video to maximize the storage space.</li> <li>General: Uses general coding strategy.</li> <li>Smart Codec: Enables the smart codec function. This function can reduce the video bit stream for non-important recorded video to maximize the storage space.</li> </ul>					
Туре	<ul> <li>Main Stream: In the Type list, select General, Motion, or Alarm.</li> <li>Sub Stream: This setting is not configurable.</li> </ul>					
Compression	<ul> <li>In the Compression list, select the encode mode.</li> <li>H.265: Main profile encoding. This setting is recommended.</li> <li>H.264H: High profile encoding. Low bit stream with high definition.</li> <li>H.264: General profile encoding.</li> <li>H.264B: Baseline profile encoding. This setting requires higher bit stream compared with other settings for the same definition.</li> </ul>					
Bit Rate Type	In the <b>Bit Rate Type</b> list, select resolution for the video. The maximum video resolution might be different dependent on your device model.					

Parameter	Description			
	Configure the frames per second for the video. The higher the value, the clearer and			
Frame Rate	smoother the image will become. Frame rate changes along with the resolution.			
(FPS)	Generally, in PAL format, you can select the value from 1 through 25; in NTSC format, you			
(FF3)	can select the value from 1 through 30. However, the specific range of frame rate that you			
	can select depends on the capability of the Device.			
Quality	This function is available if you select VBR in the Bit Rate List.			
Quality	The higher the value, the better the image will become.			
I Frame Interval	The interval between two reference frames.			
Rit Rata (Kh/S)	In the Bit Rate list, select a value or enter a customized value to change the image quality.			
Bit Rate (Kb/S)	The bigger the value is, the better the image will become.			
Video	Enable the function for sub stream.			
	Click More, the More interface is displayed.			
Audio	• Audio: This function is enabled by default for main stream. You need to manually			
	enable it for sub stream 1. Once this function is enabled, the recorded video file is			
	composite audio and video stream.			
	• Audio Source: In the Audio Source list, you can select LOCAL and HDCVI.			
Audio Source	$\diamond$ LOCAL: The audio signal is input from Audio input port.			
	$\diamond$ HDCVI: The audio signal is input from HDCVI camera.			
Compression • Audio Format: In the Compression list, select a format that you need.				

iii. Click Apply to complete the settings.

Click Copy to to copy the settings to other channels.

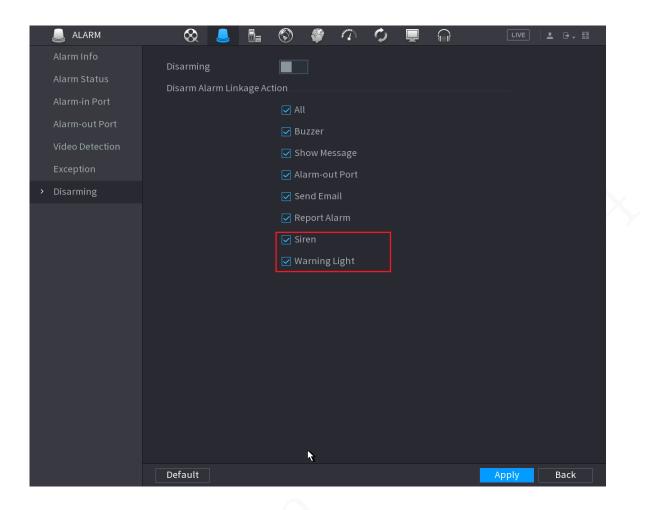
# 1.4.2 AI Mode

This release supports three modes for AI function: SMD, Face, IVS&SMD. You can set those modes in start-up wizard or in **SYSTEM** > **General** > **Basic**.

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> General	Basic	Date&Time	Holiday		
	Device Name Device No. Al Mode Language Video Standard Sync Remote Do Instant Playbad Logout Time CAM Time Sync Interval Navigation Bar Mouse Sensitivi	ł evice ck	XVR 8 SMD SMD Face IVS&SMD	min.	Non-login User Permission
Parameter		Description			
Al Mode	<ul> <li>Select SMD, Face or IVS&amp;SMD for Al function.</li> <li>When SMD is selected, only SMD is available.</li> <li>When Face is selected, only face detection and face recognition are available.</li> <li>When IVS&amp;SMD is selected, only IVS and SMD are available.</li> <li>This parameter is supported on select models. SMD, face detection, face recognition and IVS cannot be enabled simultaneously on those models.</li> </ul>				

# 1.4.3 Items added in disarming: Siren and warning light

Supports one-click arming and disarming with all linkage actions; added siren and warning light linkage actions. You can configure alarm linkages in **Main Menu** > **ALARM** > **Disarming**.



### 1.4.4 5M Camera Access

Supports access of 2880 x 1620 resolution 5M camera, provides image effect more real and clear displayed on 16:9 monitors.

### 1.4.5 SMD Plus

SMD of all supported channels are enabled by default.

# 1.5 Fixed Bugs

N/A

# 1.6 Compatibility

Current version is V4.001.0000001.2, compatible with previous version V4.001.0000000.1, V4.001.0000000.2, V4.001.0000001.0.

# **1.7 Software Environment**

Platform	Model	Version		
Baseline	SmartPss	General_SMARTPSS-Win32_ChnEng_IS_V2.003.0000001.0.R.191028.zip		
software	NETKB5000	General_NKB5000_Chn_SDA_V3.212.0000000.0.R.191105.BIN		

Platform	Model	Version		
NETKB1000		General_NKB1000_ChnEng_V2.620.0000000.0.R.20180115.zip		
	DSS	General_DSS-PRO_Win64_IS_V7.002.0000003.0.R.20191008.exe		
	NetSDK	General_NetSDK_Eng_Win32_IS_V3.051.0000006.1.R.191126.7z		
	ConfigTool	General_ConfigTool_ChnEng_V4.011.0000003.6.R.20200114.zip		
Decoder		General_NVD0405DH-4K_Chn_P_V3.200.0002.1.R.20180116.zip		
Player		General_SmartPlayer-Win32_Eng_IS_V4.000.0000001.4.R.191009.zip		
Cell phone		Android: Gdmss plus 1.10.000		
		Iphone: Idmss plus 1.10.000		

# **1.8 Pending Issues**

N/A

# 1.9 Update Guide

- The update mode includes Configtool, web and USB device. Please refer to the update manual for detailed information.
- During the update process, some functions are not available, such as record and network live view. After update and reboot process, the device returns to normal work status.
- The previous device settings remain the same.
- During the update process, do not shut down the device or unplug the power cord. Otherwise, the device may become malfunction and cannot boot up.

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