

How to Update Firmware to Prevent Potential Risks

(CVE ID CVE-2021-36260)--build20210929

Catalogue

1.	Wizar	rd	2
2.	How t	to confirm that your device model is within the risk range and get the repair firmware	2
3.	How t	to upgrade online (from Hik-Connect server)	3
	3.1	Online upgrade by iVMS-4200 (Recommended)	3
	3.2	Online upgrade by Local GUI (Only for NVR)	4
	3.3	Online upgrade by Web page (If there is an "online upgrade" interface)	5
	3.4	Online upgrade by Hik-Connect (If there is an "online upgrade" interface)	7
4.	How t	to upgrade firmware manually	8
	4.1	Upgrade by Web Browser	8
	4.2	Upgrade by iVMS-4200	11
	4.3	Upgrade by USB in local GUI 4.0 (Only for NVR)	13
	4.4	Upgrade by USB in local E-UI (Only for NVR)	15
	4.5	Upgrade by Batch Configuration Tool	17
5.	[Appe	endix]	19
	5.1	How to check device model type	19
	5.2	How to check device firmware version	19

1. Wizard



2. How to confirm that your device model is within the risk range and get the

repair firmware

Please check the following notice to see the affected model range. Link: <u>https://www.hikvision.com/en/support/cybersecurity/security-advisory/security-notification-command-injection-vulnerability-in-some-hikvision-products/</u>

You can try the following ways to obtain the corresponding repair firmware.

Mode 1: Please see the method of obtaining firmware in the notice.

https://www.hikvision.com/en/support/cybersecurity/security-advisory/security-notification-command-injection-vulnerability-in-some-hikvision-products/

Method 2: Please contact the technical support of HIKVISION.

Note: If you don't know the model and version of the equipment, please check [Appendix].

3. How to upgrade online (from Hik-Connect server)

Now there are **four methods** to online upgrade devices: iVMS-4200, Local GUI, Web page and Hik-Connect. The devices' firmware can be upgraded online, if there is a new version on platform, you can receive notification and upgrade it.

3.1 Online upgrade by iVMS-4200 (Recommended)

Note: When you use iVMS-4200, it just need connect network on your PC client.

- 1. Add device to iVMS-4200.
- Check the Firmware upgrade status in Maintenance and Management > Device Management > Device, it will display the latest version.

	iVMS-4200								🙆 Not Log 🗄	- Dea ▼ 合 _ □)
88	📑 Main View	🛞 Data	a Retrieval 🛛 🚮 F	leport 📃	Maintenance a	ind Manageme	nt 🙁			
=		Device								
		+ Add	i Q Online Device				🖰 Refresh 📄 Get Event		port Device Total (7) Filter	
			Name	Connection	Network Para	Device Type	Serial No.	Security Le Re	source U Firmware Upgrade	Operation
	Device		DS-7608NI-K1(C)	IP/Domain	10.9.96.74:8000	Encoding D	DS-7608NI-K1082021041	Weak 🤇	Online 🕕 Uperadeable	
									Offi Current Version V4.30.217 build 210204	
									Offi	
									0 Off	
	Storage Schedule		iDS-9632NXI-I16-8F(B)(.	. IP/Domain	10.9.96.50:8000	Encoding D	iDS-9632NXI-I16/8F(B)16	Weak 🤇	On Upgrade Content	
									solved several known errors.	

3. Select the device and click Upgrade.

	iVMS-4200									🙆 Not Log 🗄 🖾	Dea 🔻 🔒 🗕 🗆	\times
88	🗐 Main View	🕑 Data	Retrieval 🏦	Report	🔄 Maintenance	and Manageme	nt 🛇					
=		Device										
		+ Add	Q Online Device	imes Delete	器 QR Code 土	Upgrade(3)	🖰 Refresh 🖹 Get Events		Export Device			
			Name	🗘 Connection	n Network Para	Device Type	Serial No.	Security Le	Resource U	Firmware Upgrade	Operation	
	Device		DS-7608NI-K1(C)		10.9.96.74:8000	Encoding D	DS-7608NI-K1082021041	Weak	🤣 Online	 Upgradeable 		
		0										
	Event Configuration 👻					Device Upgr	ade					
8	Storage Schedule		iDS-9632NXI-I16-8F(B)	(IP/Domain	10.9.96.50:8000				🥪 Online	 Upgradeable 		
						?	Confirm to upgrade the selected device(s)?					
<u> </u>	Account Management		iDS-9632NXI-I8-BA(C)	IP/Domain	10.15.112.30:80				🥑 Online	 Upgradeable 		
\$							ОК	Cancel				

4. Then device will upgrade latest firmware automatically.

٥	iVMS-4200									🛆 Not Log 🗄 🖸 De	ea ▼ 合 _ □ ×
88	🗐 Main View	🛞 Data I	Retrieval 🌆	Report	📰 Mainten	ance and Manager	nent 💿				
=		Device									
		+ Add	Q Online Device	imes Delete	器 QR Code		🕄 Refresh 🖹 Get Even		Export Device		
		- 1	Name	🗘 Connect	ion Network F	Para Device Typ	e Serial No.	Security Le	Resource U	Firmware Upgrade	Operation
	Device		DS-7608NI-K1(C)	IP/Doma	in 10.9.96.74:	8000 Encoding D	DS-7608NI-K1082021041	Weak	🧭 Online	63% Downloading	;
											四 ۞ ӛ 옷 í
											四 @ 冒 오 ƙ
	Event Configuration										四 @ 尋 오 ƙ
8	Storage Schedule		iDS-9632NXI-I16-8F(B)	IP/Doma	in 10.9.96.50:	8000 Encoding D	iDS-9632NXI-I16/8F(B)16	Weak	🧭 Online	🕕 Upgradeable	☑ ⑳ ▤ ㅅ ƙ
											四 @ 尋 오 ƙ
ă	Account Management		iDS-9632NXI-I8-BA(C)	IP/Doma		30:80 Encoding D	iDS-9632NX-18/BA162021	Weak	🧭 Online	 Upgradeable 	四 @ 尋 오 ƙ
0	iVMS-4200									🕜 Not Log 🗄 🗔 Dea	a ▼ 台 = □ ×
88	📑 Main View	🛞 Data I	Retrieval 🌆	Report	🔄 Maintena	ance and Managen	nent 😣				
=		Device									
	Device Management	+ Add	Q Online Device	imes Delete	器 QR Code		📿 Refresh 🖹 Get Event		Export Device		
		- 1	Name	🗘 Connecti	ion Network P	ara Device Type	e Serial No.	Security Le	Resource U	Firmware Upgrade	Operation
	Device		DS-7608NI-K1(C)	IP/Doma		B000 Encoding D.	DS-7608NI-K1082021041	Weak	🥪 Online	🥑 Upgraded	四 @ 尋 오 ƙ
											☑ ⑳ ▤ ㅅ ƙ
						BOO1 Device Up	grade		😵 Offline		

3.2 Online upgrade by Local OOI (Only 101 14)	3.2	Online upgrade by Local GUI	(Only for NVF
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Note: You need to enable Hik-Connect and install a HDD firstly when using Local GUI online upgrade.

 \checkmark

10.9.96.50:8000

1. Enable platform in Network > Hik-Connect.

繱

NVR		۲	R	¢	×		‱ ¢ t ()
System		Enable		No.	feeties of the	4	
Network	✓ Connect	ion Status Online		ve	Inication Code	<u>~</u>	
General	В	ind Status No			as second		
Hik-Connect		Time Sync 🛛 📃		10 A	516902-53C		
	Stream I	Encryption		20 20	建雄弦		
Email		Server IP litedev.sg	o.hik-conne	Scan the OR cod	e to downlasd Hik-Conn		
Camera							
Decert							
Record	,						

2. After device is online, you can click update button and enter the Online upgrade interface.

NVR	 ۲	F Q	¢	×	# 수 다 ()			
		Device Name	Network Video Recorde	r				
		Firmware	V4.30.217, Build 210204	4 û				
		Device Model	DS-7608NI-K1					
		Serial No.	0820210410CCRRF82431557WCVU					
	Simple R	lestore	Restore all parameters to default, except user passwords and general network parameters.					
	Factory D	Defaults	Restore all device parameters to default settings.					
	Restore to	Inactive	Restore the device to the inactive status, and leave all settings unchanged. Your admin password will					



3. Click Test Upgrade to obtain latest version info, then download firmware file and upgrade your device.

Device Upgrade		×
Local Upgrade	Auto Download	
Online Upgrade	Current Version V4.30.217, Build 210204 Test Upgrade	
	Latest Version NVR V4.31.102, Build 210626 Download Ignore Note Upgrade file downloaded. Close	

3.3 Online upgrade by Web page (If there is an "online upgrade" interface)

Note: You need to enable Hik-Connect and install a HDD (for NVR) or SD card (for IP camera) firstly when

using Web page online upgrade.

1. Firstly, enable the platform: Configuration > Network > Advanced Settings > Platform Access.

HII	VISION	Live View	Playback	Pictur	e	Configur	ation	
Ţ	Local	Email Platfo	m Access Netw	vork Service	802.1x	Other	Integration Protocol	Log Server Configuration
	System	Platform Acces	s Mode Hik-C	onnect		\checkmark		
Ð	Network	Enable						
	Basic Settings	Server Address	s litedev	.sgp.hik-con	nect.com			
	Advanced Settings	Register Status	Online	<u>;</u>		\sim		
<u>Q.</u>	Video/Audio	Stream Encryp	tion/Encry	•		* }, ,<*		
<u>*4</u>	Image	6 to 12 charac case sensitive	ters allowed, includ combination of thi	ling upper-ca s alphabetica	se and lov I order ar	wer-case let e not allowe	tters, and digits. To e ed.	nsure device security, a combination
Ë	Event	Enable Hik	-Connect Server Tim	e Sync				
	Storage							
6	VCA	E	Save					

 After device is online, go to Configuration > Maintenance > Online Upgrade, click Check Upgrade to obtain latest version info, then download firmware file and upgrade your device.



3.4 Online upgrade by Hik-Connect (If there is an "online upgrade" interface)

Note: You need to enable Hik-Connect and install a HDD (for NVR) or SD card (for IP camera) firstly when using Hik-Connect online upgrade.

1. Add device to Hik-Connect, and click device settings icon, then enter Device Version

Image: Strange Status Image: Status		Settings	•	00
My Derice DS-7608N/FK/ DS-7608N/FK/ More M Configure DDNS Not Set Atter DDNS Not Set	>	DS-7608NI-KI DS-7608NI-KI	Live View >	🕚 Recent Liv
 DS-7608N/K1 More ✓ More ✓ Storage Status Device Version Configure DDNS Not Set Atter DDNS being enabled, the devices will be accessed via IP address in priority, and remote configuration will be supported. 				My Device
Authorization Service Notification Disable Storage Status Device Version Configure DDNS Not Set After DDNS Leting enabled, the devices will be accessed via IP address in priority, and remote configuration will be supported.	>	Linked Camera	< 0	• DS-7608NI-KI
More V Notification Disable Storage Status Device Version Configure DDNS Not Set After DDNS being enabled, the devices will be accessed via IP address in priority, and remote configuration will be supported.	>	Authorization Service		-
More V Storage Status Device Version Configure DDNS Not Set After DDNS being enabled, the devices will be accessed via IP address in priority, and remote configuration will be supported.	Disable 义	Notification		
Device Version Configure DDNS Not Set After DDNS being enabled, the devices will be accessed via IP address in priority, and remote configuration will be supported.	>	Storage Status	More 🗸	
Configure DDNS Not Set After DDNS being enabled, the devices will be accessed via IP address in priority, and remote configuration will be supported.	• >	Device Version		
After DDNS being enabled, the devices will be accessed via IP address in priority, and remote configuration will be supported.	Not Set >	Configure DDNS		
	ssed via IP be supported.	After DDNS being enabled, the devices will be access address in priority, and remote configuration will be		
Remote Configuration	>	Remote Configuration		
Delete Device		Delete Device		
			M 11	•

2. Check the firmware info and click Upgrade, the device will upgrade new version automatically.

<	Device Version
	Upgrade
DS-7608NI-KI	
Current Version	V4.30.217 build 21020
Latest Version	V4.31.102build21062
Solved several known e	errors. Optimized product user experience

4. How to upgrade firmware manually

4.1 Upgrade by Web Browser

1. Enter the device IP address in the IE browser. Login by inputting username and password.

C (http://10.5.2.20594/doc/page/login.asp	P ← C Configuration	Cogin	×	× â ★ â
HIKVISION				English v
		adri 	lin •••• Login	
	©Hikvision Digital Technology Co., Ltd. All Ri	ghts Reserved.		

2. Go to Configuration ->System -> Maintenance ->Upgrade & Maintenance.

HIKVISION		Live View Pla	yback I	Picture	Configuration	1			👤 ad	min 🕞 Logout
Q Local		Upgrade & Maintenance	B Log Syster	m Service		_				
System	2	Reboot								
System Settings	12	Reboot	Reboot the dev	rice.						
Security		Default								
User Manageme	nt	Restore	Reset all the pa	arameters, ex	cept the IP parameters	and user info	mation, to the	default settings.		
Network		Default	Restore all para	ameters to de	fault settings.					
Video/Audio		Export								
🔝 Image		Device Parameters			R					
Event		Import Config. File								
Storage		Device Parameters					Browse	Import		
		Status								
		Upgrade								
		Firmware	~				Browse	Upgrade		
		Status					5			
		Note: The upgrading upgrading.	process will be 1 to	o 10 minutes,	please don't disconn	ect power to	the device du	ring the process. The de	vice reboots automatica	lly after
					©Hikvision Digital Ter	hnology Co.,	Ltd. All Rights	Reserved.		

3. Choose the firmware which has been saved in advance.

iganize 🔻 New folder				
Favorites Name	Date modified	Туре	Size	
E Desktop digicap.dav	2016/7/5 12:47	DAV File	13,392 KB	
Downloads				
Recent Places				
Libraries				
Documents				
Music				
E Pictures				
Subversion				
Videos Videos				
Computer				
C (C:)				
D (D:)				
📻 E (E:)				
🕞 F (F:)				
😴 (personal) (P:)				
😴 share (\\hikvision.cc				
Network				

4. Click "Upgrade" button, the upgrading process will be 1 to 10 minutes. The device reboots automatically after upgrading.

	Reboot Reboot Reboot th			
	Default			
User Management	Restore Reset all t Default Restore a	he parameters, except the IP parameters and user inform	ation, to the default settings.	
	Export	Note X		
	Import Config. File	Device will reboot automatically after upgrading. Continue?		
	Device Parameters	OK Cancel	Browse Import	
	Upgrade Firmware C.\Users	2 Vxukun7\Desktop\a\digicap.dav	Browse Upgrade 1	
	Status Note: The upgrading process will be upgrading.	1 to 10 minutes, please don't disconnect power to th	e device during the process. The device reboots	automatically after

Notes

The device cannot power off during the upgrade.

4.2 Upgrade by iVMS-4200

Preparations

Download iVMS-4200 from following link, and install it on your computer. https://www.hikvision.com/en/support/download/software/ivms4200-series/

Steps:

.

1. Open the iVMS-4200 software, and go to Maintenance and Management -> Device Management.

iVMS-4200	
🔡 🛕 Event Center	I Maintenance and Management 🛞
=	Device
🕮 Device Management 🔺	+ Add 🔍 Online Device 🛛 Delete 📓 (DR Code 土 Upgrade(0)) 💋 Refresh 🗈 Get Events from Device Export Device
	🗌 Name 🗍 Connection Network Para Device Type Serial No. Security Le Resource U Firmware Upgrade Operation
Device	
Group	
Event Configuration 🔻	
🗃 Storage Schedule	
Account Management	
🐯 System Configuration	
System Log	

2. Find the device which need to be upgraded. Click "Add" icon, input device name, user name and password, click add to add device.

0	VMS-4200			🔿 Not Log 🗄 🕅 admi	•••A=@×
88	📺 Event Center	🐻 Maintenance and Management 💿			
=			Add		×
813		+ Add 1 Deelece X Delete III OR Code 1. Upgrade(0) Ø Refresh 🕒 Get Events from Device Export Device			Hik-Connect Batch Import
		Name 🗍 Connection Network Para Device Type Serial No. Security Le Resource U Firmware Upgrade Operatio			
			* åddress	10.9.96.6	
-					
10				 8000	
0				admin	
			2 Password	•••••	1
<u>1</u>			Synchronize Time		
3					
				Set the device name as the group name and add all the channels connected to the device to the group.	
				Add and New Add	Cancel

3. Choose the device added before, go to remote configuration-Basic Settings.

🛃 Ma	intenance	and l	Management	8								
Device												
+ Add						de(0) 🎜 Refresh 🗎						
	Name		Connection	Network Para	Device Type	Serial No.	Security Le	Resource U	Firmware Upgrade	Operati	on	
	Test 🕕		IP/Domain	10.9.96.6:8000	Encoding D	DS-2CD2725FHWD-IZS20	Weak	😔 Online	No available version		2 B A G	
											Basic Settings	
											Advanced Function	

4. Go to System- Maintenance- Upgrade, click Browse, choose the firmware which has been saved in advance.

nfiguration		- U
Local	Upgrade & Maintenance Log System Service	
Local		
System	Reboot	
System Settings	Reboot Reboot the device.	
Maintenance	1	
Security	Default	
User Management	Reset all the parameters, except the IP parameters and user in	formation, to the default settings.
Network	Default Restore all parameters to default settings.	
Video/Audio	Information Export	
Image	Device Parameters	
Event	Diagnose Informa Download the log, system information and hardware information	n.
Storage	Import Config. File	
	Device Parameters	Browse Import
	Status	
	Upgrade	
	Firmware 🗸	Browse Upgrade
		2
	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading.	to the device during the process. The de
Jpgrade File	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading.	to the device during the process. The de
Jpgrøde File ↓ Computer + D∰(0;) + fil → Num folder	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading.	to the device during the process. The de
Upgrade File ↓ • Computer • D∰(D2) • fil ≈ • New folder Name ^	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading.	to the device during the process. The de + 4 Search formula:
Upgrade File	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading. Immware Date modified Type Size 2016/7/51247 DAV File 12,302 KB	to the device during the process. The de
Upgrade File > ▲ • Computer • Dffl (D) • fil ize ▼ New folder Name C digicap.dav C B C V V V V C C C C C C C C C C C C C	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading. Immoare Date modified Type Size 2016/7/51247 DAV File 13,302 KB	to the device during the process. The de
Upgrade File Computer > Dflt(D2) > fil ize New folder Name digicap.dav R B C L A S S	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading. Immware Date modified Type Size 2016/7/51247 DAV File 12,302 KB	to the device during the process. The de
sUpgrade File	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading. Immeare Date modified Type Size 2016/7/51247 DAV File 13,382 KB	to the device during the process. The de
Nume Name Name Name C Name C Name C C C C C C C C C C C C C	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading. Immware Date modified Type Size 2016/7/51247 DAV File 13.302 KB	to the device during the process. The de
Upgrade File Computer + Diff (D) + fil te New folder Name digicap dav File name: digicap.dav	Status Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power automatically after upgrading.	to the device during the process. The de

5. Click "Upgrade" button, the upgrading process will be 1 to 10 minutes. The device reboots automatically after upgrading.

Note:

The device cannot be cut off during the upgrade.

4.3 Upgrade by USB in local GUI 4.0 (Only for NVR)

Preparation

- 1. Arrange the NVR a monitor.
- 2. Plug the USB flash drive which contain firmware into NVR USB port.

Steps:

1. Login the device by inputting username and password.



2. Go to Maintenance -> Upgrade -> Local Upgrade.

	HVR 4.0					ب ې	1 坐 🥏	_ ∪
1	System Info >	Device	-	File For *	.dav;*.mav;*.ia⊱ -			C Refresh
	Log Information	① Upgrade						
ß	Import/Export	File Name	File Size	File Type	Edit Date	Delete	Play	1
Ŷ	Upgrade 🗸 🗸	2						
	Local Upgrade	3						
	FTP							
	Online Upgrade							
	Camera Upgrade							
©	Default							
₿	Network Detecti>							
	HDD Operation >							
Q	System Service >							

3. Choose the USB flash drive, find the new firmware file stored in USB plugged to NVR USB port, click Upgrade to continue.

	HVR 4.0				ب ا 🖉 🖅 🕹
1	System Info	Device USB Flas	h Disk - File For *	.dav;*.mav;*.iav -	⊖ Refresh
	Log Information 3	Dpgrade			
ß	Import/E×port	2	File Size File Type	Edit Date Delet	e Play I
	L	🗕 😑 Al Album	Folder	10-05-2018 ×	
Ŷ	Upgrade 🗸 🗸 🗸	😑 PS4	Folder	28-05-2018 ×	
		System	Folder	08-05-2018 ×	
	Local Upgrade	🛥 b&vv list	Folder	29-05-2018 ×	
	FTP				
	Online Upgrade				
	Camera Upgrade				
୍ଷ୍ତ୍ର	Default				
₿	Network Detecti>				
0	HDD Operation >				
Ŵ	System Service >				

4. The NVR will reboot automatically when it is finished.

Note:

The device cannot power off during the upgrade.

4.4 Upgrade by USB in local E-UI (Only for NVR)

Preparation

Store the upgrade firmware to a backup device, and connect it to your device.

Steps:

1. Click "Maintenance" at the upper-right corner, click "Upgrade"



2. Click "Local Upgrade", select a backup device in Device Name, select the upgrade firmware. Click "Upgrade".

1

Device Upgrade								
Local Upgrade	Device Name	USB Flash Disk 1-1		File Format	.dav;*.mav;*.iav			
Online Upgrade								
	File Name	File Size	File Type	Edit Date	I Delete	l Play		
			Folder	01-01-1970 00:00:				
	📑 digicap.dav	43.78MB	File	13-03-2021 17:19:				

3. Upgrading, Your device will reboot automatically when upgraded.

Device Upgrade							
Local Upgrade	Device Name	USB Flash Disk 1-1		File Format	*.dav;*.mav;*.iav		
Online Upgrade							
	☆ Upgrade O Refr	esh					
	File Name	File Size	File Type 🗦	l Edit Date 💈	Delete	l Play	
			Folder	01-01-1970 00:00:	- 00		
	🗎 digicap.dav	Upgrading		** ** *** ** **	18 面		
		_					
			Reading upgraded f	ile			
			•				

4.5 Upgrade by Batch Configuration Tool

Preparation

- 1. Download Batch Configuration tool from following link, and install it on your computer. https://www.hikvision.com/en/support/tools/hitools/TS20200826032/
- 2. Network topology: Use the Ethernet cable to connect the devices and PC to one switch.

Note: The device you want to upgrade should use same firmware.

Steps:

1. Install the software **Batch Configuration Tool**

Name	Date modified	Туре	Size
Batch Configuration	2019/1/10 16:27	Application	

The interface should be like this.

5	Batch (Configuration										¢0 _	□ ×
Total	I number:0	• <i>C</i>	Refresh	+ Add \times	Delete	📑 Upgrade 🛛	Batch Configuration	n	Export Device		1 [Filter	Q
		5	Restore Defa	ult Parameters	🔆 Re	boot 🗤 Wiper 🗸	🕼 ONVIF	🔂 Set	via ISAPI 🕮 Health				
			UPnP 👻	Time Synchro		🗟 Set Video Para	ameters 📑 Bin		grading Detection	Download Cert			
	ID 🔺 D	evice Type	IP Address	Port Ch	iannel F	irmware Version	Serial No.	Upgrade	e Opera	ation	Status		
							~ ~						
Total	Number:	📿 Refres	h + Add	Activate	∕G Re	eset Password 🛛 🖉 Ec	dit Network Parameter	rs 🎲 Or	ne-Touch Apply 🔅 O	ne-Touch Configure	• 0	Filter	Q
Total	Number:	C Refres Device Type	h + Add Security	 Activate IPv4 Address 	Ø Re	rset Password 🛛 🗹 Ed	lit Network Parameter	rs 🎲 Or	ne-Touch Apply 🔅 O Device Serial No.	Dne-Touch Configure	• • • • • • • • • • • • • • • • • • •	Filter	Q DSP Ver
Total	Number: ID D 001 D	G Refres Device Type DS-7216HUHI-K2	h + Add Security Activated	 Activate IPv4 Address 10.9.96.176 	√G Re Port 8150	eset Password 🛛 🖉 Ec Firmware Version V4.20.000build 1811	iit Network Parameter	rs 💮 Or HTTP Port	ne-Touch Apply 💮 O Device Serial No. DS-7216HUHI-K2162	One-Touch Configure	 MAC Address 44-47-cc-cb-53-38 	Filter Encoding Channel 16	Q DSP Ver V5.0, bu
Total	Number: ID - D 001 D 002 D	G Refres Device Type DS-7216HUHI-K2 DS-7732NI-I4/16P	h + Add Security Activated Activated	 Activate IPv4 Address 10.9.96.176 10.9.96.20 	Re R	eset Password I E Ec Firmware Version V4.20.000build 1811 V4.1.64build 190119	dit Network Parameter IPv4 Gateway F 10.9.96.254 1 10.9.96.254 8	ATTP Port	ne-Touch Apply () C Device Serial No. DS-7216HUHI-K2162 DS-7732NI-I4/16P162	One-Touch Configure Subnet Mask 255.255.255.0 255.255.255.0	MAC Address 44-47-cc-cb-53-38 c4-2f-90-a1-0b-e4	Filter Encoding Channel 16 0	Q DSP Ver V5.0, bu V5.0, bu
Total	Number: ID D 001 D 002 D 003 D	… ୖ Refres Device Type DS-7216HUHI-K2 DS-7732NI-I4/16P DS-7104NI-E1/4P	h + Add Security Activated Activated Activated	Activate Pv4 Address 10.9.96.176 10.9.96.20 10.9.96.219	 Ref Port 8150 8000 8118 	eset Password Firmware Version V4.20.000build 1811 V4.1.64build 190119 V3.4.96build 171130	fit Network Parameter IPv4 Gateway F 10.9.96.254 1 10.9.96.254 8 10.9.96.254 1	108	ne-Touch Apply () C Device Serial No. DS-7216HUHI-K2162 DS-7732NI-I4/16P162 DS-7104NI-E1/4P042	Dne-Touch Configure Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0	MAC Address 44-47-cc-cb-53-38 c4-2f-90-a1-0b-e4 58-03-fb-cd-59-a2	Filter Fi	Q DSP Ven V5.0, bu V5.0, bu V5.0, bu
	Number: ID - D 001 D 002 D 003 D 004 D	& Refres	h + Add Security Activated Activated Activated Inactive	Activate IPv4 Address 10.9.96.176 10.9.96.20 10.9.96.219 10.9.96.34	Port 8150 8000 8118 8000	eset Password E Ec Firmware Version V4.20.000build 1811 V4.1.64build 190119 V3.4.96build 171130 V4.1.64build 190119	IPv4 Gateway I 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1	HTTP Port	ne-Touch Apply () C Device Serial No. DS-7216HUHI-K2162 DS-7732NI-I4/16P162 DS-7104NI-E1/4P042 DS-9664NI-I1616201	Subnet Mask Image: Configure 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0	MAC Address 44-47-cc-cb-53-38 c4-2f-90-a1-0b-e4 58-03-fb-cd-59-a2 28-57-be-a3-de-ac	Filter Fi	Q DSP Verr V5.0, bu V5.0, bu V5.0, bu V5.0, bu
	Number: ID D 001 D 002 D 003 D 004 D 005 D	G Refres	h + Add Security Activated Activated Activated Inactive Activated	Activate IPv4 Address 10.9.96.176 10.9.96.20 10.9.96.219 10.9.96.34 10.9.96.126	C Ro Port 8150 8000 8118 8000 8000	Firmware Version Firmware Version V4.20.000build 1811 V4.4.0.64build 190119 V3.4.96build 171130 V4.1.64build 190119 V2.0.5build 190117	II Network Parameter IPv4 Gateway I 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1	HTTP Port	Device Serial No. DS-7216HUHI-K2162 DS-7732NI-14/16P162 DS-7104NI-E1/4P042 DS-9664NI-11616201 DS-8664NI-11616201 DS-8664DI-11616201	Subnet Configure 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0	MAC Address 44-47-cc-cb-53-38 c4-2f-90-a1-0b-e4 58-03-fb-cd-59-a2 28-57-be-a3-de-ac 18-68-cb-f9-02-8d	Filter Encoding Channel 16 0 0 0 0 0 0 0	Q DSP Ven V5.0, bu V5.0, bu V5.0, bu
	Number: ID - D 001 D 002 D 003 D 004 D 005 D	.	h + Add Security Activated Activated Activated Inactive Activated Activated	Activate IPv4 Address 10.9.96.176 10.9.96.20 10.9.96.34 10.9.96.126 10.9.96.206	Port 8150 8118 8000 8000 8000 8304	Firmware Version V4.20.000build 1811 V4.1.64build 190119 V3.4.96build 171130 V4.1.64build 190119 V2.0.5build 190117 V3.0.22build 170621	IPv4 Gateway H 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1	ATTP Port ATTP Port ATTO POR ATTO POR	ne-Touch Apply OC C Device Serial No. DS-7216HUHI-K2162 DS-7732NI-I4/16P162 DS-7104NI-E1/4P042 DS-9664NI-1616201 DS-9664NI-1616201 DS-9664NI-1616201 DS-7604NI-SE/P0420	Subnet Touch Configure Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0	MAC Address 44-47-cc-cb-53-38 c4-2f-90-a1-0b-e4 58-03-fb-cd-59-a2 28-57-be-a3-de-aa 18-68-cb-f9-02-8d 8c-e7-48-20-5f-2f	Filter Encoding Channel 16 0 0 0 0 0 0 0 0	Q DSP Verr V5.0, bu V5.0, bu V5.0, bu V5.0, bu
	Number: ID - D 001 D 002 D 003 D 004 D 005 D 006 D 007 D		h + Add Security Activated Activated Activated Activated Activated Activated	Activate Activate IPy4 Address 10.9.96.176 10.9.96.20 10.9.96.34 10.9.96.126 10.9.96.206 10.9.96.60	 Port 8150 8000 8118 8000 8000 8000 8304 8000 	Firmware Version V4.20.000build 1811 V4.1.64build 190119 V3.4.96build 171130 V4.1.64build 190119 V2.0.5build 190117 V3.0.22build 170621 V4.20.000build 1811	IPv4 Gateway H 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1 10.9.96.254 1	ATTP Port 1 121 300 108 300 N/A 800	Device Serial No. O DS-7216HUHI-K2162 DS-7732NI-I4/16P162 DS-7704NI-E1/4P042 DS-7704NI-E1/4P042 DS-7104NI-E1/4P042 DS-7604NI-16162011 DS-7604NI-SE/P0420 DS-7604NI-K2/P16	Subnet Touch Configure Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0	MAC Address 44-47-cc-cb-53-38 c4-2f-90-a1-0b-e4 58-03-fb-cd-59-a2 28-57-be-a3-de-ac 18-68-cb-f9-02-8d 8c-e7-48-20-5f-2f 58-03-fb-1f-cc-4a	Filter Encoding Channel 16 0 0 0 0 0 16	Q DSP Ven V5.0, bu V5.0, bu V5.0, bu V5.0, bu V1.0, bu

2. Click the 'Add' to add all devices you want to upgrade to the region that devices will be upgraded.

5	Batc	h Configuration										.↓ © _	
Total	Numb	er: 0 📿	Refresh	+ Add \times	Delete	🕞 Upgrade 🛛		iration	🕒 Export Device		I [Filter	Q
		5	Restore Defi	ault Parameters	-∜⊱ Re	boot 🛛 🗤 Wiper 🗸		Ba Se	et via ISAPI 🚥 Healt				
		D.	UPnP 🗸	Time Synchr		🚡 Set Video Para			pgrading Detection	Download Cert			
	o ~ I	Device Type	IP · · ·	3			Serial No.	Upgrad	de Oper	ration	Status		
			User	Name admin									
			Pass	word									
				L									
						ок	_	~					
Total	Numbe	ri 🖓 Refr 2	h + Add	Ω Activate	A Re	se 4 ssword 12 Ec	lit Network Para	meters (Ĉŝ (One-Touch Apply 63	One-Touch Configu	Ire 0	Filter	Q
		Device Type	Security	IPv4 Address	Port	Firmware Version	IPv4 Gateway	HTTP Port	Device Serial No.	Subnet Mask	MAC Address	Encoding Channel	DSP Ver
	01	DS-K2602	Activated	10.9.96.126	8000	V2.0.5build 190117	10.9.96.254	N/A	DS-K260220190117V	255.255.255.0	18-68-cb-f9-02-8d	0	
I	02	DS-7732NI-I4/16P	Activated	10.9.96.20	8000	V4.1.70build 181114	10.9.96.254	80	DS-7732NI-14/16P162	255.255.255.0	c4-2f-90-a1-0b-e4	0	V5.0, bu
	03	DS-7232HQHI-K2	Activated	10.9.96.218	8113	V4.2.00build 180802	10.9.96.254	102	DS-7232HQHI-K2322	255.255.255.0	58-03-fb-c6-81-ca	32	V5.0, bui
	4	DS-7216HUHI-K2	Activated	10.9.96.176	8150	V4.20.000build 1811	10.9.96.254	121	DS-7216HUHI-K2162	255.255.255.0	44-47-cc-cb-53-38	16	V5.0, bu
	05	DS-7604NI-SE/P	Activated	10.9.96.206	8304	V3.0.22build 170621	10.9.96.254	N/A	DS-7604NI-SE/P0420	255.255.255.0	8c-e7-48-20-5f-2f	0	V1.0, bui
☑ (06	DS-9664NI-I16	Activated	10.9.96.34	8000	V4.1.70build 181114	10.9.96.254	80	DS-9664NI-I1616201	255.255.255.0	28-57-be-a3-de-ad	0	V5.0, bu
	07	DS-PWA32-HSR	Activated	10.9.96.23	8000	V1.0.1build 181229	10.9.96.254	80	DS-PWA32-HSR20180.	255.255.255.0	58-03-fb-b0-1e-7c	0	V0.0, bui
Error I	Aessag	je(10) 💉											

3. Choose all the devices and upgrade.

Total Number: 2	🖓 Refre	h + Add	\times Delete	Upgrade [🗟 Batch Configu	ration	Upgrade				
	5 Resto	e Default Paramete	rs 🖓 Re	eboot 🖙 Wiper ~	ONVIF	: C					
	🔓 UPnP	 Time S 	ynchronization	🔯 Set Video Par	ameters 🔯	Bin [Upgrading Mode	• File Upgrade 3	Online Upgrad	le	
🗹 ID 🗠 Device Ty	ype IP A	ldress Port	Channel F	Firmware Version	Serial No.	l u	File Path	G:// /digicap	.dav 🖻		
2 001 DS-7732M	NI-I4/16P 10.9	96.20 8000	۵ ۱	/4.1.70 build 181114	DS-7732NI-14/16	iP162 U					
002 DS-9664M	NI-I16 10.9	96.34 8000		/4.1.70 build 181114	DS-9664NI-I1616	5201 U		🗹 Reboot Device after U	Ipgrading	Delete Device a	ifter Upgrad
					_	·	> Configuration				
Total Number: 🖌	📿 Refresh -				dit Network Parat	▼ meters	> Configuration				
fotal Number: 🧍	⊖ Refresh - ype Secu	- Add 📿 Activ ity IPv4 Addre	rate 🔏 Re ss Port	eset Password 🛛 🖄 E	dit Network Paran	meters	> Configuration				
fotal Number: 6	C Refresh	- Add 🔷 Activ ity i IPv4 Addre ted 10.9.96.20	rate 🔏 Re ss Port 8000	eset Password 🛛 🖄 E Firmware Version V4.1.70build 181114	dit Network Parat IPv4 Gateway 10.9.96.254	meters	> Configuration				
fotal Number: 6	C Refresh → ype Secu NI-14/16P Activ 2 Activ	- Add 📿 Activ ity IPv4 Addre tted 10.9.96.20 tted 10.9.96.126	/ate 26 Re ss Port 8000 6 8000	eset Password 🖉 E Firmware Version V4.1.70build 181114 V2.0.5build 190117	dit Network Parat IPv4 Gateway 10.9.96.254 10.9.96.254	meters HTTP I 80 N/A	> Configuration				
ID Device Ty 001 Ds-77321 002 Ds-K2603 003 DS-96647	C Refresh − ype Secu NI-14/16P Activ 2 Activ NI-116 Activ	- Add Q Activ ity IPv4 Addre tted 10.9.96.126 tted 10.9.96.34	vate SS Port 8000 8000 8000	eset Password 🖉 E Firmware Version V4.1.70build 181114 V2.0.5build 190117 V4.1.70build 181114	dit Network Paras IPv4 Gateway 10.9.96.254 10.9.96.254 10.9.96.254	eters HTTP 8 80 N/A 80	> Configuration				
ID Device Ty 001 DS-77324 002 DS-82602 003 DS-96644 004 DS-76048	Refresh ype Secu NI-14/16P Activ 12 Activ NI-116 Activ NI-5E/P Activ	- Add Q Acin ity IPv4 Addre ted 10.9.96.20 ted 10.9.96.34 ted 10.9.96.206	rate <u> <u> </u> </u>	eset Password Z E Firmware Version V4.1.70build 181114 V2.0.5build 190117 V4.1.70build 181114 V3.0.22build 170621	dit Network Parat Pv4 Gateway 10.9.96.254 10.9.96.254 10.9.96.254 10.9.96.254	meters HTTP 1 80 N/A 80 N/A	> Configuration				
Total Number: # 1D Device Ty 001 DS-77321 002 DS-46801 003 DS-96641 004 DS-776041 005 DS-72164	Refresh - ype Secu NI-14/16P Activ 2 Activ NI-116 Activ NI-5E/P Activ HUHI-K2 Activ	- Add Q Activ ity IPv4 Addre ted 10.9.96.20 ted 10.9.96.34 ted 10.9.96.30 ted 10.9.96.206 ted 10.9.96.76	vate 26 Ro ss Port 8000 8000 8000 8000 8304 8304	rest Password Firmware Version V4.1.70build 191114 V2.0.5build 191117 V4.1.70build 191114 V3.0.22build 170621 V4.20.000build 1911.	dit Network Parat I IPv4 Gateway 10.9.96.254 10.9.96.254 10.9.96.254 . 0.9.96.254	Meters I HTTP I 80 N/A 80 N/A 121	> Configuration				
Total Number Common Section ID D Device Ty 001 DS-77327 002 DS-86267 003 DS-96644 004 DS-76044 005 DS-72164 006 DS-722324	Refresh ype Secu NI-14/16P Activ 12 Activ NI-116 Activ NI-5E/P Activ HUHI-K2 Activ HQHI-K2 Activ	Add Addres ity IPv4 Addres tted 10.9.96.20 tted 10.9.96.126 tted 10.9.96.20 tted 10.9.96.126 tted 10.9.96.20 tted 10.9.96.20 tted 10.9.96.20 tted 10.9.96.20 tted 10.9.96.20	rate A Ro ss Port 8000 8000 8000 8304 8304 8150 8113	rest Password Firmware Version V4.1.70build 191114 V2.0.5build 191117 V4.1.70build 191114 V3.0.22build 170621 V4.20.00build 1911 V4.2.00build 1911	dt Network Parat PN4 Gateway 10.9.96.254 10.9.96.254 10.9.96.254 10.9.96.254 10.9.96.254 10.9.96.254	meters I HTTP I 80 N/A 80 N/A 121 102	> Configuration				

4. It will upgrade automatically.

5	Bat	ch Configuration										
Up	grade	Progress		09	%		O Upgrade	Total: 2	Succeeded: 0 Failed: 0			
	ID 🔸	Device Type	IP Address	Port	Channel	Firmware Version	Serial No.	Upgrade	Operation	Status		
~	001	DS-7732NI-I4/16P	10.9.96.20	8000	0	V4.1.70 build 181114	DS-7732NI-I4/16P162	Upgrade 38%	\$ F > (Online		
v	002	DS-9664NI-I16	10.9.96.34	8000	T	V4.1.70 build 181114	DS-9664NI-I1616201	Upgrade 55%	\$\overline\$	Online		

5. The devices will be upgraded successfully.

0	🚡 Bat	ch Configuration									0	
	Upgrade	Progress		100	%		Upgrade completed	. Total: 2	Succeeded: 2 Failed:	0		×
~	ID -	Device Type	IP Address	Port	Channel	Firmware Version	Serial No.	Upgrade	Operation	Status		
~	001	DS-7732NI-I4/16P	10.9.96.20	8000	0	V4.1.70 build 181114	DS-7732NI-I4/16P162	Upgrade completed.	\$ F D O	Online		
	002	DS-9664NI-I16	10.9.96.34	8000	5	V4.1.70 build 181114	DS-9664NI-I1616201	Upgrade completed.	\$ F 0 (Online		

5. [Appendix]

5.1 How to check device model type

You can find device model type on the package label or the device label. Take below picture as an example, the model type in below picture is DS-2CD2347G2-LSU/SL (C)



5.2 How to check device firmware version

You can find device model type and firmware version according to below methods.

Method 1: Find model type and firmware version on device local menu.

From NVR Local GUI:

GUI 4.0: Please enter device local Maintenance- System Info- Device Information to check device model and firmware version.

NVR		$\langle \rangle$			Ð	۲	÷	۶	
(i) System Info V	Device Name	Networ	k Video Recor	der					
Camera	Model Serial No.	DS-962	256N-116/H	72961244WCVL	U				
Record	Firmware Version	V4.0.0,	Build 000000						
Network									
HDD									
Device Status									

E-UI: Click Maintenance icon in upper right corner to check device model and firmware version.

System Basic Settings DST Settings More Settings System Info More General Language English More	NVR	a 💿 🗖 🔅	
General Language English ~ Live View Time Zone (CMT+08.00) Beijing, Urum.v User Date Format YYYY-MM-DD Network System Date 2021-09-23 Camera System Time 20.28.22 Event VGA Resolution 1920*1080/60Hz(1080P)(Riv) Record HDMI Resolution 1280*720/60Hz(720P) v Mouse Pointer Speed Slow ● Fast Lock Screen Password €	ystem	✓ Basic Settings DST Settings More Settings	System Info More
Event Visit Resolution Table Tool (1000/10/10/00/0	General Live View User stwork amera	Language English ~ Time Zone (GMT+08:00) Beijing, Urum: ~ Date Format YYYY-MM-DD ~ System Date 2021-09-23 E System Time 20:28:22 ©	Network Video Recorder Model:Ds:7608N-K1(6) SN 0820191210CCRR068470452WCVU Version No.:V4 30.085, Bild 219409
Wizard Enhanced SVC Mode Apply		HDMI Resolution HDMI Resolution HDMI Resolution 1280*720/60Hz(720P) Knowe Pointer Speed Slow Fast Lock Screen Password Wizard D Enhanced SVC Mode Apply	Simple Restore Factory Defaults Restore to Inactive

GUI 3.0: Please enter device local Menu- Maintenance- System Info- Device Info to check device model and firmware version.

Device Info Camera Record	Alarm Network HDD
Device Name	Embedded Net DVR
Model	DS-7304HUHI-K4
Serial No.	0420170620CCWR782566662WCVU
Firmware Version	V3.5.25, Build 170724
Hardware Version	0xa4100
Please scan the QR code via iVMS	client.

From web page (NVR/ IPC /PTZ):

Please login device via web browser, enter Configuration- System- System Settings to check device model and firmware version.

Live View Playbac	ck Picture	Configuration	
Basic Information Time	Settings DST RS-232	metadata Settings	About
Device Name	IP CAMERA		
Device No.	88		
Model	DS-2CD2043G0-I		
Serial No.	DS-2CD2043G0-I20180630	AAWRC31467690	
Firmware Version	V5.6.5 build 200316		
Encoding Version	V7.3 build 190910		
Web Version	V4.0.1 build 200316		
Plugin Version	V3.0.7.16		
Number of Channels	1		
Number of HDDs	0		
Number of Alarm Input	0		
Number of Alarm Output	0		
Firmware Version Property	B-R-G1-0		
	Live View Playbox	Live ViewPlaybackPictureBasic InformationTime SettingsDSTRS-232Device NameIP CAMERADevice No.88ModelDS-2CD2043G0-ISerial No.DS-2CD2043G0-I201806300Firmware VersionV5.6.5 build 200316Encoding VersionV7.3 build 190910Web VersionV4.0.1 build 200316Plugin VersionV3.0.7.16Number of Channels1Number of Alarm Input0Number of Alarm Output0Firmware Version PropertyB-R-G1-0	Live ViewPlaybackPictureConfigurationBasic InformationTime SettingsDSTRS-232metadata SettingsDevice NameIP CAMERADevice No.88ModelDS-2CD2043G0-ISerial No.DS-2CD2043G0-I20180630-AWRC31467690Firmware VersionV5.6.5 build 200316Encoding VersionV7.3 build 190910Web VersionV4.0.1 build 200316Plugin VersionV3.0.7.16Number of Channels1Number of Alarm Input0Number of Alarm Output0Firmware Version PropertyB-R-G1-0

Method 3: Find device model type and firmware version with SADP tool.

- 1. Follow the link to download the latest version of SADP tool on your computer. <u>https://www.hikvision.com/en/support/tools/hitools/TS20200826033/</u>
- 2. Use SADP software to automatically search active online devices in the same subnet with the PC running the software, and then select the required device to view its device type and software version.

Tot	al numbe	r of online devices: 65				Unb	ind Export	Refresh
	ID	▲ Device Type	Status	IPv4 Address	Port	Enhanced SDK Service Port	Software Version	IPv4 C
	027	DS-7216HQHI-K2/P	Active	10.9.96.87	8000	N/A	V3.5.511build 181225	10.9.9
	028	NVR-208MH-C/8P	Active	10.9.96.90	8000	N/A	V4.30.085build 210409	10.9.9
	029	iDS-2CD71C5G0-IZS	Active	10.9.96.144	8000	8443	V5.5.122build 200922	10.9.
	030	DS-K1T331W	Inactive	192.0.0.64	8000	N/A	V3.2.30build 210609	192.(>

