

How to Realize the Redundancy Video Record Function in Back-end Devices

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Preparation

A NVR or DVR, at least two HDDs, an NAS server for redundant recording if needed.

How to Realize the Redundancy Video Record Function

in Back-end Devices

1 Background

To protect data security, back-end products like NVR and DVR can record videos of key channels locally while keep them in two disk groups simultaneously. A hard disk can be an HDD or Net HDD such as NAS.

Redundancy: For some video channels, recordings can be saved and copied as a backup in several disk groups. The function can effectively enhance data security.

Redundant Recording: Recordings stored in the redundant disk.

Redundant disk: Disks for redundant recordings storage.

2 Configuration Steps:

To configure redundant recording, the back-end device needs to add hard disks first. If the disk belongs to the NAS Net HDD type, please add the disk to the devices according to below document:

https://hiknow.hikvision.com.cn/kms/kms/multidoc/kms_multidoc_knowledge/k msMultidocKnowledge.do?method=view&fdId=1813c90a76c8282f8309e4f4d4482ca 0

2.1 Configure the Storage Mode as Group Mode

Enter **Storage** interface and select **Group Mode** in the Storage Mode. If the previous Storage Mode is **Quota**, the device will reboot.

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Schedule >	Mode Record on HDD	Group	Que	ota	• Gr	roup					
Storage Mode	⊠Analog	☑A1 ☑A22	✓A2	A 3	<mark>⊡</mark> A4	☑A28	⊠A29	☑ A30	ZA31		
 Advanced Cloud Storage 	□IP Camera	D1 D9 D17 D25	D2 D10 D18 D26	D3 D11 D19 D27	D4 D12 D20 D28	D5 D13 D21 D29	D6 D14 D22 D30	D7 D15 D23 D31	D8 D16 D24 D32		
		D33	D34	D35	D36	D37	D38	D39	D40		

2.2 Configure Group ID for all the disks in Storage Device

Enter Storage>Storage Device interface and drag the left-right bar on the selection menu. Select Edit button to the disk configuration interface by clicking the Edit button of each disk.

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Schedule >	+ Add	🖯 Init	© Re	epair Datal	base	Total Capac	ity 3787.46GB	Free Space	2959.00GB
📇 Storage Device		Туре	1	Free Sp	iace	Grou	p	Edit	Delete
🖹 Storage Mode		Local		2931.00	IGB	1		1	×
 Advanced Cloud Storage 		NAS		28.00GE	3	2	1	1	×

Enter the disk Edit interface to configure HDD Property and Group parameters.

- HDD Property: R/W for non-redundant disks and Redundancy for redundant disks.
- Group: The Group parameter is to configure Group ID. The Group configurations of redundant and non-redundant disks need to be different.

P.S. Several hard disks can be configured under the same Group.

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Schedule	Local HDD Settings	6				ce 2959.00GB
📇 Storage Device	HDD No.	6				Delete
Storage Mode	HDD Property	• R/W	Read-only	Redundancy		×
 Cloud Storage 	Group	• 1 2 9 10	3 4 5 6 11 12 13 🕅	7 8 15 16		
	HDD Capacity	3726.03GB				
				ок	Cancel	

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Schedule >	NetHDD Settings					<u> </u>				ree Spa	ce 29	359.00GB
📇 Storage Device	NetHDD No.		17							Edit		Delete
Storage Mode	Туре		NAS							122		×
Advanced	NetHDD IP											×
Cloud Storage	NetHDD Directory		/volume	17/testRe	edundant							
	HDD Status											
	RAV		R	ead-only			• Re	dundancy	/			
	Group	1 9	• 2 10	3 11	4 12	5 13	6 14	7 15	8 16			
	HDD Capacity	61.44	GB									
				Apply		Ok	<	Car	ncel			
	L											

After finishing configuration, all the Property and Group parameters seen in all the disks are the updated ones.

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Schedule >	+ Add	😳 Init	③ Repair Database	Total Capacity 3726.03GB	Free Space	2931.00GB
📇 Storage Device	Status	Property	Type	Free Space	Group	ΙE
 Storage Mode Advanced Cloud Storage 	Normal Normal	R/W Redundancy	Local NAS	2931.00GB 28.00GB	1 2	2

2.3 Configure Redundant Record in Schedule Page

Enter Storage>Schedule, select the target camera channel to configure record schedule. Select Advanced button and choose the Redundant Record in the pop-up window.

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E Schedule Record	Camera No. Enable Schedule	[D1] IPCame	ra 01	14		
 Storage Device Storage Mode 	Continuous	Advanced Paramete	rs	*	1	Advanced Edit
 Advanced Cloud Storage 	MIA 0 2 4 Mon	Record Audio: Pre-Record: Post-Record:	5s -	ivent 14 16	None 18 20	22 24
	Tue ved ved ved ved ved ved ved ved ved ve	Stream Type: Expired Time (day):	Main Stre -			2 3 4
	Fri Sat	Redundant Recor	rd 2			5
	Sun		Cancer			

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2.4 Allocate Video Channel for Each Group

Go to Storage Mode and select the video channel that needed to be recorded for

each Group, which is seen as the following picture.

• Allocate non-redundant disk video channel: select the HDD Group ID, then check the boxes you need in red rectangle shown in below picture. For instance, in below picture all video channels will record to Group 1.

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Schedule >	Mode		Que	ota	• Gr	oup				
E Storage Device	Record on HDD	Growp	1 🔶							
Storage Mode	Analog		⊡A2	⊠ A3		ZA28	≥A29	ZA30	☑ A31	1
 Advanced Cloud Storage 	⊡IP Camera	 D1 D9 D17 D25 D33 D41 	 D2 D10 D18 D26 D34 D42 	 ☑ D3 ☑ D11 ☑ D19 ☑ D27 ☑ D35 ☑ D43 	 D4 D12 D20 D28 D36 D44 	 D5 D13 D21 D29 D37 D45 	 ✓ D6 ✓ D14 ✓ D22 ✓ D30 ✓ D38 ✓ D46 	 D7 D15 D23 D31 D39 D47 	 D8 D16 D24 D32 D40 D48 	

• Allocate redundant disk video channel: choose the redundant disk Group ID and channels for redundant recordings.

Schedule >	Mode		Que	ota	• Gr	oup				
📇 Storage Device	Record on HDD	Group	2 🔶					-		
Storage Mode	🗖 Analog 👌	A1 A32	□A2	A3	□A4	A28	A29	A30	□A31	
 Advanced Cloud Storage 	⊡IP Camera	 D1 D9 D17 D25 D33 D41 	 D2 D10 D18 D26 D34 D42 	 □ D3 □ D11 □ D19 □ D27 □ D35 □ D43 	 ✓ D4 ✓ D12 ✓ D20 ✓ D28 ✓ D36 ✓ D44 	 D5 D13 D21 D29 D37 D45 	 D6 D14 D22 D30 D38 D46 	 D7 D15 D23 D31 D39 D47 	 ✓ D8 ✓ D16 ✓ D24 ✓ D32 ✓ D40 ✓ D48 	
	Appl	У								

Finishing the steps above, the redundant record function is realized. To verify the configuration, the user can delete the non-redundant recording disk but only keep the disk for redundancy to see whether the recording exists.

