Device Management Software User Manual

Manual Version: V1.13

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

Notice

- The contents of this document are subject to change without prior notice.
- Best effort has been made to verify the integrity and correctness of the contents in this document, but no statement, information, or recommendation in this manual shall constitute formal guarantee of any kind, express or implied.
- The product appearance shown in this manual is for reference only and may be different from the actual appearance of your device.
- The illustrations in this manual are for reference only and may vary depending on the version or model. So please see the actual display on your device.
- This manual is a guide for multiple product models and so it is not intended for any specific product.
- Due to uncertainties such as physical environment, discrepancy may exist between the actual values and reference values provided in this manual. The ultimate right to interpretation resides in our company.
- Use of this document and the subsequent results shall be entirely on the user's own responsibility.

Conventions

The following conventions apply in this manual:

- Device management software is referred to as the software for short.
- Hard disk recorder, video server, IP camera and network dome camera are all referred to as device in this manual.
- The figures in this manual are only for your reference. The actual display may vary with software version.

Document Conventions

Convention	Description
Boldface font	Commands, keywords, parameters and GUI elements such as window, tab, dialog box, menu, button, etc.
Italic font	Variables for which you supply values.
>	Separate a series of menu items, for example, Device Management > Add Device .

Symbols

Symbol	Description
	Contains important safety instructions and indicates situations that could cause bodily injury.

Symbol	Description
	Means reader be careful and improper operations may cause damage or malfunction to product.
	Means useful or supplemental information about the use of product.

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1 Device Management

Device management software is a tool kit designed to provide device management and record storage calculation functions for different models of devices including cameras. The device management window is displayed by default after the software is started. You need to add devices to the software before operating the devices.

When managing devices, you can:

- Search online devices in a network and add them using the auto-add function.
- Log in to devices to perform configuration and maintenance operations.

Before you start device management operations, make sure:

- The devices are operating correctly and network communication is normal.
- Initial configuration has completed for the devices.

Searching Devices

You can use two methods to search devices: multicast search and IP segment search. Multicast search searches devices in a LAN. IP segment search searches devices (compliant with ONVIF) within a network segment, which requires you to set the start and end IP addresses of the network segment. The login username and password are set to "admin" by default for the devices that are found.

Multicast Search



Click the **Refresh** button. The system automatically searches for online devices in the interconnected network and adds the detected devices to the device list.



NOTE!

The system searches devices by multicast by default. If you want to search devices by IP segment, see <u>IP Segment Search</u>.

IP Segment Search

To search devices in a specified network segment, perform the following steps:

1. Click ⁽¹⁾ on the right side in the device management window. A dialog box is displayed.

Re	fresh 5 jin	Maintenand	Upgrade	e 🔻 DST	Batch Configure	IPC/NVR	Device Number: 2	Enter Keywords	•1@ 🗠
All	IP	Model		MAC	Con	figuration	Status		
V	203.130.1.139	IPC5	Setting	_	_			23	
	203.130.1.134	HC1	2 3 List I	To 19	P Segment	. 1 . 255	Serial No.		a
] Subnet Ma] Device Cor	sk 🔲 Gatewa	ay E	Status	cel	

- 2. Select Search by IP Segment.
- **3.** Set the IP segment you want to search and then click the **OK** button.
- 4. Click the **Refresh** button. Devices that are found are added to the list.

Changing the Password

The initial password is used for your first login. To ensure account security, please change the password after your first login.

To change the password, perform the following steps:

1. Right-click the desired device and click **Change Password** on the pop-up menu. A dialog box is displayed.



NOTE!

The system supports the modification of the administrator (admin)'s password only.

A11	IP	Δ	Device 1	Name	Model		Version	MAC
	1)2. 168. 20. 61		Modify Restar		rk Address	5	5202	48:ea:63:1d:f2:7f
	192. 168. 20. 66	0	Change			-PF	1201	48:ea:63:1c:40:a6
			Chang	ge Pas	sword			×
				Userna	ame	a	dmin	
			8	Old Pa	ssword	•	••••	
				New P	assword	•	•••••	
				Confir	m	•	•••••	Show Password
								4 OK Cancel

2. Enter the old password, new password and confirm the new password, and then click the **OK** button.

Changing Device Name

The names of devices detected by the software are default and can be changed for easy management. To rename the devices, perform the following steps:

- **1.** Select the desired device and double-click the entry. A dialog box is displayed.
- 2. Rename the device as needed and click OK.

Logging In to Devices

Perform the following steps to log in to devices that are displayed in the **Device Management** list:

- **1.** Select a desired device and then click the **Login** button. A dialog box is displayed.
- 2. Enter the correct username and password, and then click the **OK** button.

Perform the following steps to log in to a device that is not displayed in the **Device Management** list:

- 1. Click the Login button. A dialog box is displayed.
- 2. Enter the correct IP address, username and password, and then click the **OK** button.

Selecting Devices

You can select a device by selecting the check box in the first column. To select multiple devices, choose one of the following methods:

- Select the corresponding check boxes one by one.
- Click All to select all the listed devices.
- Hold <**Ctrl**> and click the rows for the desired devices one by one to select devices that are not continuous in the list.
- Hold **<Shift>** and click the row for the first device and then click the row for the last device to select devices that are continuous in the list.

• To select devices that are continuous in the list, select a device and drag the mouse to select other devices.

Filtering Devices

By entering keywords, you can quickly search the device whose IP or model matches the key words in the device list.

Re	fresh Login I	Maintenance Upgrade 🔻	DST	Batch Configure IPC/NVR	Device Number: 2	61		3
A11	IP	🛆 Device Name	Model	Version	MAC	Con	figuration	Status
	192. 168. 20. 61	IPC	3232	IPC_5202	48:ea:63:1d:f2:7f	0	е	Not logg
	206. 10. 241. 61	IPC	826			0	е	Not logg

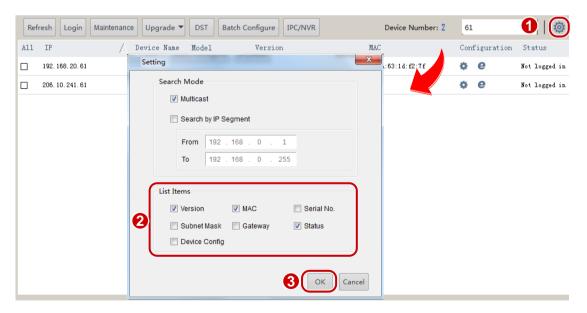
Sorting the Device List

In the device list, click a column title, for example, IP address, model, and status, to sort the listed devices in ascending or descending order.

Customizing Device List Titles

To customize device list titles, perform the following steps:

1. Click 🇐 on the right side in the device management window. A dialog box is displayed.



2. Select the desired titles and then click the **OK** button.

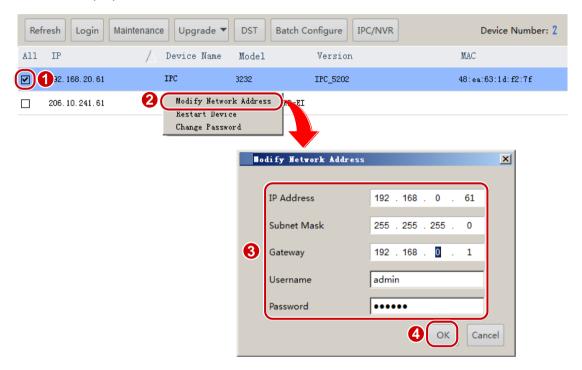
Configuring a Device

Modifying the Device Address

To modify the address of a device, including the IP address, subnet mask or default gateway, perform the following steps:

Modify a single device address

1. Right-click the desired device and click **Modify Network Address** on the pop-up menu. A dialog box is displayed.



2. Modify the parameters and then click the **OK** button.

Batch modify device addresses

1. Select the desired cameras and then click **Modify Network Address** on the shortcut menu. A dialog box is displayed.

Refresh Login Ma	aintenance	Upgrade 🔻	DST Bat	tch Configure	IPC/N	VR	Device N	umber: 2	51
			Model	Version			MAC	Co	onfiguratio
J32. 168. 20. 61	Restart D Change Pa	1	R. <u>k</u>	Addresses					×
206. 10. 241. 61		IP Address	192	. 168 . 20 .	61	~ 192 . 168	. 20 . 62		
		Subnet Mask	3 255	. 255 . 255 .	0				
		Gateway	192	. 168 . 20 .	1			J	
		IP(old)	IP (new)	Subnet	Mask	Gateway	Username	Password	Ope
		192.168.20.61	192.168.2	0.61 255.255	.255.0	192.168.20.1	admin	123456	
		206.10.241.61	192.168.2	0.62 255.255	.255.0	192.168.20.1	admin	123456	
									Cancel
									Cancel

- **2.** Enter the start IP address, and the software will fill the other information based on the number of devices.
- 3. Click the OK button.

Restarting a Device

Right-click the desired device and then click **Restart Device** on the shortcut menu. The device will restart after you confirm the operation.

Image: Weight of the second	All	IP	Model	MAC	Configuration	Status
203.130.1.134 HC 88:5f 💱 🤤 Not logged in	V	203.130.1.139	IPC Modify N	letwork Address :fa:5c	¢ e	Not logged in
		203.130.1.134	HC.	16:56	¢ e	Not logged in

Setting Image Parameters

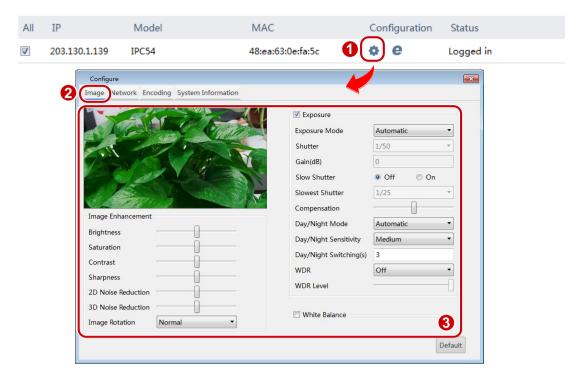


NOTE!

- This function applies to cameras only.
- The image parameters that can be set may vary with camera model. Please refer to the actual display for image parameters that can be set.

To set image parameters to achieve the best visual effects, perform the following steps:

1. Select the desired camera that you have logged in to and then click 🌞. A dialog box is displayed.



2. On the **Image** tab, modify the settings as required. Major parameters are described in the table below.

Parameter	Description
Sharpness	Contrast of boundaries of objects in an image.
2D Noise Reduction	Reduce the noise of images. The function may cause image blurring.
3D Noise Reduction	Reduce the noise of images. The function may cause motion blur (or ghosting in some applications).
Image Rotation	 Normal: No rotation. Flip Vertical: Flip the image vertically. Flip Horizontal: Flip the image horizontally. 180°: Flip the image both vertically and horizontally simultaneously. 90° CW: Rotate the image 90° clockwise. This option applies to corridor mode.
Gain	Control image signals so that the camera outputs standard video signals according to the light condition.
WDR	Enable WDR to distinguish the bright and dark areas in the same image.
White Balance	 Adjust the red or blue offset of the image: Automatic: The camera adjusts red and blue offset automatically according to the light condition. The color tends to be blue). Fine Tune: Allow you to adjust the red and blue offset manually. Sodium Lamp: The camera adjusts red and blue offset automatically according to the light condition (the color tends to be red).
Red Offset	Make small adjustments to red gain in white balance.

Parameter	Description
Blue Offset	Make small adjustments to blue gain in white balance.

3. To reset the settings to the default values, click **Default**.

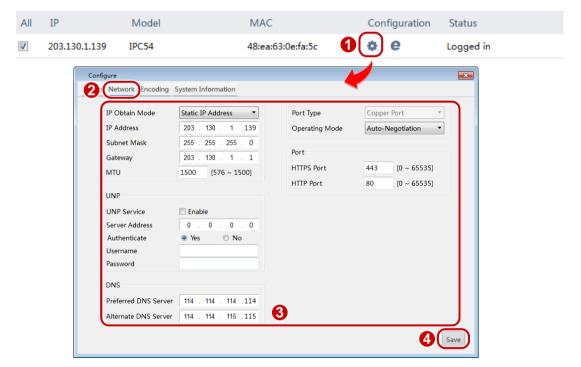
Setting Network Parameters

NOTE!

- This function applies to cameras only.
- The network parameters that can be set may vary with camera model. Please refer to the actual display for network parameters that can be set.

To set network parameters including the IP obtainment mode and port numbers, perform the following steps:

1. Select the desired camera that you have logged in to and then click 🌞. A dialog box is displayed.



- 2. Click the **Network** tab and then modify the settings as required.
- 3. Click Save.

Setting Encoding Parameters



NOTE!

- This function applies to cameras only.
- The encoding parameters that can be set may vary with camera model. Please refer to the actual display for encoding parameters that can be set.

To set bit encoding parameters of a camera and enable sub and third streams, perform the following steps:

Set encoding parameters for a single camera

1. Select the desired camera that you have logged in to and then click 😨.

ge Nc	Encoding System In	formation					— ×
	Main Compression Resolution Frame Rate(fps) Bit Rate(Kbps) Bitrate Type Image Quality I Frame Interval	H.264 8MP 25 8192 CBR Quality 50	↓ ↓ [128 ~ 16384] ↓ Bit Rate [10 ~ 250]		Enable Sub Compression Resolution Frame Rate(fps) Bit Rate(Kbps) Bitrate Type Image Quality I Frame Interval	H.264 D1 25 1024 CBR Quality 50	
	Enable Third			8			J

2. Click the **Encoding** tab and then modify the settings as required. Major parameters are described in the table below.

Parameter	Description				
	• CBR: Constant Bit Rate, which means that the camera transmits data at a constant data rate.				
Bitrate Type	• VBR: Variable Bit Rate, which means that the camera adjusts the bit rate dynamically according to image quality.				
	Frame rate for encoding images. Unit: FPS (frame per second).				
Frame Rate	<i>Note:</i> To ensure image quality, note that the frame rate should not be greater than the reciprocal of the shutter speed.				
Image Quality	Quality When Bitrate Type is VBR , you can move the slider to adjust quality level f images. Moving the slider toward Bit Rate decreases the bit rate and may affer image quality. Moving the slider toward Quality increases the bit rate and improves image quality.				

3. Click Save.

Set encoding parameters for multiple cameras

1. Select the desired cameras that you have logged in to and then click **Batch Configure**. A dialog box is displayed.

IP	Model	MAC	Confi	iguration Status	
203.130.1.	Batch Configure	ngs			
	Main		🔽 Enable Sub		ר 🚽
	Compression	H.264	Compression	H.264	
	Resolution	8MP *	Resolution	D1 •	
	Frame Rate(fps)	25 🔹	Frame Rate(fps)	25 🔹	
	Bit Rate(Kbps)	8192 [128 ~ 16384]	Bit Rate(Kbps)	1024 [128 ~ 16384]	
	Bitrate Type	CBR	Bitrate Type	CBR	
		Quality Bit Rate		Quality Bit Rate	
	Image Quality	·	Image Quality	·	
	I Frame Interval	50 [10 ~ 250]	I Frame Interval	50 [10 ~ 250]	
	🔲 Enable Third		4		J
				-	

- 2. Click the **Encoding** tab and then modify the settings as required. For descriptions about major parameters, see <u>Set encoding parameters for a single camera</u>.
- 3. Click Save.

Setting Audio Parameters

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NOTE!

- This function applies to cameras only.
- The audio parameters that can be set may vary with camera model. Please refer to the actual display for audio parameters that can be set.

Audio parameters include audio compression and audio input settings. To set audio parameters, perform the following steps:

1. Select the desired camera(s) that you have logged in to and then click **Batch Configure**. A dialog box is displayed.

Re	fresh	ogin Maintenance Upg	rade 🔻 DS2	Batch Configure IPC/NVR Device Number: 2 Enter Key
All	IP	Model	MAC	Configuration Status
	203.130.1	Batch Configure		
	203.130.1	Encoding Settings Audio Settings	0	
			Audio Settings Audio Input	⊙ On ● Off
		4	Audio Input Audio Input Gain	128 [0 ~ 255]
		U	Encoding Format	6.711U • 8 •
			Sampling Rate(KHz)	
				5 Save

2. Click the Audio Settings tab and then modify the settings as required. Major parameters are described in the table below.

Parameter	Description			
Audio InputNo audio data will be encoded when Off is selected.Audio Input Note: It is recommended to select Off if you do not need audio. This conductive performance to some extent.				
Audio Input Gain	Audio signal amplification for sampling. The greater the gain, the greater the amplification.			

3. Click Save.

Setting DST

1. Select the desired device that you have logged in to and then click **DST**. A dialog box is displayed.

Refresh Login I	Maintenance	de DST Batch C	onfigure	IPC/NVR	Device Num	ber: 2 Enter K
All IP	Model	МАС	Con	figuration	Status	
03.130.1.139	IPC54	48:ea:63:0 5c	•	е	Logged in	
	DST Carton Enable DST Start Time End Time Bias				D'clock D'clock	

- 2. Select Enable DST and then set the start time, end time, and bias.
- **3.** Click the **OK** button.

Viewing Device Information

- **1.** Select the desired device that you have logged in to and then click \clubsuit . A dialog box is displayed.
- 2. Click the System Information tab to view device information.

All	IP	Model	MAC	Configuration	Status
V	203.130.1.134	HC12	48:ea:63:1e:8d:5f	1 💿 e	Logged in
			Configure Image Network Encoding System Information	2	

Logging in to the Web Interface of a Device

- **1.** Select the desired device and then click \bigcirc .
- 2. On the login page that appears, enter the correct username and password to log in.

Maintenance

Diagnosis Information

To export device diagnosis information as a file to a specified local directory, perform the following steps:

1. Select the desired device(s) that you have logged in to and then click the **Maintenance** button. A dialog box is displayed.

Refresh Lor	Maintenance Upgrade 🔻 DST	Batch Configure IPC/NVR	2	
All IP	/ De Name Mode	l Version	MAC	Configurati
12. 168. 20. 61	Diagnosis Info			×
	3 Storage Path		Browse	. Export
	Config Management	t		
	Import Settings		Browse	Import
	Export Settings		Browse	. Export

- 2. Enter the destination path in the **Storage Path** text box, or click **Browse** to select the destination folder in the dialog box.
- 3. Click the Export button.

Importing/Exporting Configuration

To import a local configuration file to a device that you have logged in to and use the file to replace the current configuration file, or to export the configuration file of a device to a local folder, perform the following steps:

1. Select the desired device(s) that you have logged in to and then click the **Maintenance** button. A dialog box is displayed.

Refresh Lor Maintenanc	e Upgrade ▼ DST	Batch Configure IPC/NVR		
All IP /	De Name Model	Version	MAC	Configurat:
2. 168. 20. 61	■aintenance → Diagnosis Info			×
	Storage Path		Br	owse Export
	Config Management			
	Import Settings		Bro	owse Import
	Export Settings		Br	owse Export

2. Enter the path in the text box or click **Browse** to select the configuration file to import or the path to export configuration, and then click **Import** or **Export** as needed.

NOTE!

Importing a configuration file will cause the device to restart.

Upgrade

The software offers two upgrade methods: local upgrade and online upgrade. You must log in before upgrading a device.

Local Upgrade

NOTE!

- The upgrade version must be correct for the device. Otherwise, exceptions may occur.
- For a camera, the upgrade package (ZIP file) must contain the complete upgrade files.
- For an NVR, the upgrade file is in .BIN format.
- Please maintain a proper power supply during upgrade. The device will restart after the upgrade is completed.

To upgrade a device using a local upgrade file, perform the following steps:

1. Select the desired device, click the **Upgrade** button, and then click **Local Upgrade**. A dialog box is displayed.

Refresh Login Maintena		grade DST	Batch Configu	ure IPC/NVR			
All IP /	B	ocal Upgrade	Model Ver	sion	MAC	Configuration	
206. 10. 241. 48	Loa	cal Upgrade					×
0	A11	IP/Channel	Name	Model	Current Version	Seria Number	
		406. 10. 251. 101	IPC	2124	B5009D1602	210235C1V30123456789	
		6					
	Upgra	ade File				Bro	owse
						Ок С	Cancel

- 2. Enter the path to the upgrade file in the Upgrade File text box, or click Browse to select the upgrade file.
- 3. Click the OK button.

NOTE!

The software supports upgrading channels under an NVR in batches. The IP address and channel number are displayed, for example, 206.10.251.130_Channel12. You need to select the channels to upgrade.

Online Upgrade

With Internet connection, online upgrade will check the device firmware version, download upgrade files and upgrade the device. Perform the following steps to upgrade devices:

- **1.** Select the desired device(s), click the **Upgrade** button, and then click **Online Upgrade**. A dialog box is displayed.
- 2. Click **Refresh** to check for available upgrades.
- **3.** Select the desired version and click the **OK** button.

Refresh Login	Maintenar 2	pgrade 🔻 DST	Batch Configure IPC/NVR	Device Number: 2 Enter K
All IP	WOUEI _	Local Upgrade Online Upgrade	Configuration	Status
3.130.1.139	Online Upgrade	ourrue obli an		
	All IP/Channel Model	Current Version New Ve	ersion Release Time Version Descript	ion Package Size(MB)
4	203.130.1.139 IPC54	P02 P03	2015/9/16 15:04:00	44.85
3(Refresh			Cancel



NOTE!

The software supports upgrading channels under an NVR. The IP address and channel number are displayed, for example, 206.10.251.130_Channel12. You need to select the channels to upgrade.

IP Camera/NVR Management

In IP camera/NVR management, you can import your IP cameras into the NVR or delete them from the NVR. To import your IP cameras, perform the following steps:

1. Select the desired NVR which should be logged in, click IPC/NVR. A dialog box is displayed.

vice Management Disk Calculate	or	0
efresh Login Maintenance	Upgrade 🔻 DST	Batch Configure
IPC/NVR		
IPC IPC	Username Password	NVR Provide the second state of the second st

- 2. Select the desired IP camera(s) and the target NVR.
- 3. Enter the username and password for the camera(s) and click Import Selected.

NOTE!

=

- The imported camera(s) will be colored in red under the IP camera list
- To delete any imported camera from NVR, click the 📠 button right by the camera.

Exporting Device Information

To export device information (including device's IP address and model) to a local directory, perform the following steps:

- **1.** Select the desired camera in the device management window.
- 2. Click Click click a local path in the pop-up dialog box and then click Save.

Ref	fresh Login Maintenanc	e Upgrade 🔻	DST Batch C	onfigure IPC/	/NVR Device Number: 1		101	o 💿 🗹
A11	IP 🔶	Device Name	Model	Version	MAC	Con	figuration	Status
•	206. 10. 251. 101	IPC	2124S	B5009D1602	48:ea:63:1e:56:f8	•	е	Logged in

Adding a Channel

Adding a Channel Manually

1. Click the **Disk Calculator** tab and then click the **Add** button. A dialog box is displayed.

Device Managemen Disk Calculator					
Add 2)dify	Delete	l Online			
All	Add Channel		Total Bandwidth		
	Channel Number	1]		
	Device Type	IPC 👻			
	Compression	H.264 -			
	U-Code	Off 🔹	3		
	Resolution	1080P 🔻			
	Frame Rate	25 🔹			
	Bit Rate(Kbps)	4096			
	Best Bit Rate(Kbps)	4096			
	4	dd Channel >> Cancel			

- **2.** Enter the number of channels, select the compression, U-Code, resolution, and frame rate, and then enter the bit rate.
- 3. Click the Add Channel button.



NOTE!

- The total bandwidth is equal to the bit rate multiplied by the channel number.
- After the device is added successfully, the **Channels** in the list is displayed in "Channel number(Device type)" format. For example, **5(IPC)** means the device type is IPC and there are five IPC channels.

Adding Online Devices

- 1. Click the **Disk Calculator** tab and then click the **Add Online** button. A dialog box is displayed.
- 2. Select the online device (The system supports adding IPCs only) and then click the Add Channels button.
- If you have logged in to the device, click the **Add Channels** button and then the device is added successfully.

• If you haven't logged in to the device, log in to the device first and then click the **Add Channels** button.



NOTE!

You can select multiple devices and then click the **Add Channels** button to add all the channels of the **selected de**vices to the channel list.

Configuring Channels

Modifying Channels

1. Click the **Disk Calculator** tab, select the desired channel(s) that have been added, and then click the **Modify** button. A dialog box is displayed.

	Devi	ce Management	t Disk Calculator			
	Ac	3 Modify	Delete Add Onli	ine		
	All	Channels	Resolution	Frame Rate	Bit Rate	Total Bandwidth
2	V	1(IPC)	1080P	25 fps	4096 Kbps	4096 Kbps
			Modify Channel		X	
		1	Channel Number	1	-	
			Device Type	IPC	-	
			Compression	H.264	•	
		4	U-Code	Basic Mode	•	
		4	Resolution	1080P	•	
			Frame Rate	20	•	
			Bit Rate(Kbps)	3072		
			Best Bit Rates(Kbps)	3072		
				б ок	Cancel	

2. Modify the number of the channels, compression, U-Code, resolution, frame rate and bit rate as required, and then click the **OK** button.

Deleting Channels

Click the **Disk Calculator** tab, select the desired channel(s) that has been added, and then click the **Delete** button.

	Device Management Disk Calculator						
	Add Modify Delete 3 Add Online						
	All	Channels	Resolution	Frame Rate	Bit Rate	Total Bandwidth	
2	V	1(IPC)	1080P	25 fps	4096 Kbps	4096 Kbps	

Channel Storage Capacity Calculation

Select a channel and then calculate the allowed recording time based on the given disk space or calculate the required disk space based on the given recording time.

Calculating Recording Time Based on Disk Space

Perform the following steps:

- 1. Click Disk Space Given on the Disk Calculator tab.
- Select the total disk space of the device under Disk Space and then the daily recording hours under Record Time Per Day. Then the system calculates the allowed recording time automatically.

Calculate for Selected Channels					
0	Disk Space Given Recording Time Given				
0	Disk Space 250GB 🔻				
3	Record Time Per Day 15 Hour(s)				
	Recording Time 8 Day(s)				

Calculating Disk Space Based on Recording Time

Perform the following steps:

- 1. Click Recording Time Given on the Disk Calculator tab.
- 2. Select the required recording days under **Recording Time** and then the daily recording hours under **Record Time Per Day**. Choose the disk specifications under **Disk Space**, and the system calculates the required disk space and number of disk(s) automatically.

Disk Space Given Recording Time Given				
Recordin	g Time			
	30 🌓 Day(s)	0		
	ime Per Day 24	3		
Disk Spa	се			
1266 GB				
2 TB	Available space 1863GB	HDD*1		
🔘 4 TB	Available space 3725GB	HDD*0		
🔘 6 TB	Available space 5588GB	HDD*0		
🔘 8 TB	Available space 7451GB	HDD*0		