

Mobile Video Recorder

User Manual

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<u>User Manual</u>

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About this Manual

This Manual is applicable to Mobile Video Recorder.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (http://overseas.hikvision.com/en/).

Please use this user manual under the guidance of professionals.

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Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of

equivalent new equipment, or dispose of it at designated collection points. For more information see: <u>www.recyclethis.info</u>



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this

symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: <u>www.recyclethis.info</u>

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description		
	Provides additional information to emphasize or supplement important points of the main text.		
	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.		
	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.		

Safety Instructions

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 9 to 32 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

Chapter 1 Start Up Device

1.1 Startup

Before you start:

- Install the HDD. Refer to installation guide for details.
- Connect the cables and modules correctly. Refer to installation guide for details.

Step 1 Insert the key into the dummy HDD lock.

Step 2 Rotate it clockwise to **ON** status.

- Do not perform any operations during the startup process.
- The startup process takes about 1 minute. The system enters the live view interface after startup.

1.2 Activation

Purpose:

For the first-time access, you need to activate the device by setting an admin password. No operation is allowed before activation.

Step 1 Enter the same password in the text field of New Password and Confirm.

	Activation	
User Name New Password Confirm	admin ********	
contains two o	d ranges from 8 to 16 char r more character combina rcase, uppercase and othe	tions, including
		OK Cancel

Figure 1-1 Settings Admin Password



STRONG PASSWORD RECOMMENDED—We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Step 2 Click **OK** to save the password and activate the device.

For the old version device, if you upgrade it to the new version, a dialog box will pop up once the device starts up. You can click **YES** and follow the wizard to set a strong password.

Chapter 2 Network

2.1 Set Local Network

Step 1 Go to Menu > Basic Settings > Network.

Netw	vork Settings
IP Address	10 . 15 . 2 . 200
Subnet Mask	255 . 255 . 255 . 0
Default Gateway	10 . 15 . 2 . 254
Preferred DNS Server	· · ·
Alternate DNS Server	· · ·
MAC Address	5c:00:08:6d:09:30
Static IP Address	192.168.1.65
NTP	Set
More Settings	Set
	Apply OK Cancel

Figure 2-1 Local Network Settings

Step 2 Enter the device IP Address, Subnet Mask, Default Gateway, DNS Server Address, and Download Server IP.

Step 3 Optionally, click Set of More Settings to enable/disable LAN Sharing.

LAN Sharing: Enable the function to share 3G/4G network to network interface.

The IP address of the device should be unique in the network and the default value is 192.168.1.64.

Step 4 Click OK.

2.2 Connect Wireless Network

2.2.1 3G/4G Dialing

Before you start:

Install a 3G/4G SIM card on the device. Refer to installation guide for details.

Step 1 Go to Menu > Basic Settings > Dial.

	Dial Settings
Select Module Enable Dialing Network Mode	Module(EVDO) ~ Auto ~
More Settings	Set
	OK Cancel

Figure 2-2 Dialing Settings

Step 2 Check Enable Dialing.

- Step 3 Configure the 3G/4G VPDN (Virtual Private Dialup Network) settings. Please consult the local operator for the network parameters of the VPDN.
 - 1) Click the **Set** button of **More Settings**.
 - 2) Select Bearing Mode.
 - 3) Enter APN (Access Point Name), Dial Number, User Name, and Password.
 - 4) Select the Verification Protocol.
 - 5) Click **OK**.

	Diel Oettinge
	Dial Settings
Bearing Mode	User Bearer ~
APN	
Dial Number	
User Name	
Password	
Verification Protocol	AUTO
	OK Cancel

Figure 2-3 Private Network Settings

Step 4 Click **OK** and reboot the device to activate the new settings.

Step 5 Optionally, go to **Menu** > **Status** > **Dial** to view dialing status.

2.2.2 Set Wi-Fi

Purpose:

Connect the device to a Wi-Fi network and transmit the data via the Wi-Fi.

Step 1 Go to Menu > Basic Settings > WiFi.

	WiFi Settings
Enable WiFi Configuration SSID	Config File 1 ~
Security Typeode More Settings WiFi AP	None ~ Set Set
WILLAF	
	Apply OK Cancel

Figure 2-4 Wi-Fi Settings

Step 2 Check Enable WiFi.

Step 3 Select the **Configuration** file. 5 configuration files are available and only one SSID can be set for each file.

Step 4 Select network SSID (Service Set Identifier), Security Type, Encryption Type, and Key.

Step 5 Set the IP address and DNS server for Wi-Fi network.

- 6) Click Set of More Settings.
- 7) Configure IP address and DNS parameters.
- 8) Click **OK**.

٧	∕iFi S	etting	5			
DHCP	\checkmark					
IP Address						
Subnet Mask						
Default Gateway						
Auto-Obtain DNS	\checkmark					
Preferred DNS Server			•			
Alternate DNS Server						
				OK	Cancel	

Figure 2-5 IP & DNS Settings for Wi-Fi

Step 6 Click OK.

Step 7 Optionally, go to Menu > Status > WiFi to view the Wi-Fi status.

	WiFi Status
Enable Status SSID	Disable Unknown Unknown
Signal Strength IP Address AP List	Unknown Unknown Query

Figure 2-6 Wi-Fi Status Interface

2.2.3 Set Wi-Fi AP

Purpose:

Configure Wi-Fi access point settings.

Step :	1 Go	to N	lenu :	> Bas	ic Set	tings :	> V	ViFi.
p							-	

	WiFi Settings
Enable WiFi Configuration SSID	✓ Config File 1 ~
Security Typeode More Settings WiFi AP	None v Set Set
	Apply OK Cancel

Figure 2-7 Wi-Fi Settings

Step 2 Click Set of WiFi AP

WiFi	Access Point
Enable WiFi AP Enable WiFi Broadcast Enable WiFi Hotspot	
SSID Encryption Type More	Mobile AP No ~ Settings
	Apply OK Cancel

Figure 2-8 Wi-Fi Access Point Settings

Step 3 Check Enable WiFi AP and edit other parameters as required.

- Enable WiFi AP: Once enabled, the device can work as a wireless router.
- Enable WiFi Broadcast: Once enabled, other devices are able to detect the SSID of the device.
- **Enable WiFi Hotspot**: Enable it to share the device's internet connection. Other devices can access to internet via joining the hotspot.

Step 4 Click **OK**.

2.3 Firewall Settings

Purpose:

The device provides software-based firewall to protect the device against the threats from the public network. A white list can be set, and only the trusted IP addresses on the white list can access the device via the network.



- 192.0.0.xxx is set as the default trusted IP addresses.
- The IP address of the platform server to add the device is set as the trusted IP address.
- Up to 16 IP addresses can be added on the white list.

Step 1 Go to Menu > Other Settings > Firewall.

			Firew	all Settings			
[[e SSH S e Whitel		Clear	All		
	No.	IP					
		_					
			Add	Delete	ОК	Cancel	

Figure 2-9 Firewall Settings

Step 2 Optionally, select **Enable SSH Service**, thus to effectively prevent information leakage during remote management.

Step 3 Click Add.

Step 4 Enter the trusted IP address and click **OK**.



Figure 2-10 Add IP Address

Step result: The trusted IP address will be added on the white list.

The configured whitelist will be cleared after you reboot the device.

Chapter 3 IP Camera

Purpose:

Add IP cameras to the device. You can get the live view, record the video, and set the parameters of the connected IP camera.

3.1 Activate IP Cameras

Purpose:

Before adding an IP camera, activate it by setting a password for it.

Step 1 Go to Menu > Other Settings > IPC Settings.

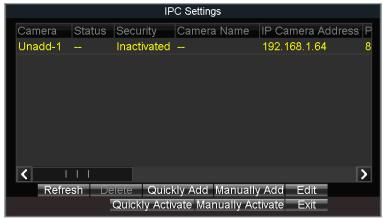


Figure 3-1 IPC Settings

Step 2 Select an inactivated IP camera.

Step 3 Activate the selected IP camera.

• **Option 1**: Quick Activation

Click **Quickly Activate**. The IP camera password will be set as the same with the device password.

- Option 2: Manual Activation
 - 1) Click Manually Activate.

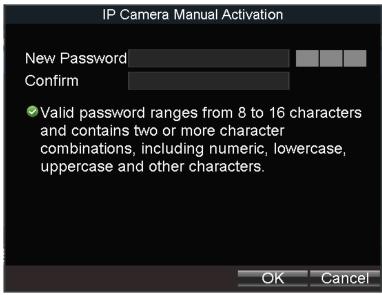


Figure 3-2 Activate IP Camera Manually

2) Enter New Password and enter the same password in Confirm.



STRONG PASSWORD RECOMMENDED – We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

3) Click **OK**.

3.2 Add IP Cameras

Purpose:

You can add the online IP cameras. Ensure the network communication between the device and IP camera is well.

3.2.1 Quick Add

Purpose:

The online IP cameras in the same network segment with the device will be displayed on a list. If the IP camera on the list has the same password with the device, you can quickly add it.

Before you start:

Make sure the IP camera password is the same with the device.

Step 1 Go to Menu > Other Settings > IPC Settings.

Step 2 Select an online IP camera.

Step 3 Click Quickly Add.

IPC Settings					
Camera	Status	Security	Camera Name	IP Camera Addre	ess P
Unadd-1		Activated		10.15.2.250	8
					17-024
					2
Refre	esh De		kly Add Manuall		
		Quickly Act	ivate Manually A	ctivate Exit	

Figure 3-3 Quick Add IP Camera

- Second second
- Second second

3.2.2 Add IP Camera Manually

Step 1 Go to Menu > Other Settings > IPC Settings.

Step 2 Click Manually Add.

Step 3 Select the IP channel No. for the IP camera.

Step 4 Edit the required information, including the **IP address, Protocol, Port No., User Name**, and **Password**.

Step 5 Click OK.

Add IP Camera Manually				
Channel No.	D1			
IP Address	10 . 15 . 2 . 250			
Manufacturer	HIKVISION			
Management Port	8000			
User Name	admin			
Password				
	Protocol OK C	ancel		

Figure 3-4 Manual Add

3.2.3 Edit Protocol

Purpose:

To connect the network cameras which are not configured with the standard protocols, you can configure the customized protocols for them. The system provides 16 customized protocols.

Step 1 Go to Menu > Other Settings > IPC Settings.

Step 2 Click Manually Add.

Step 3 Click **Protocol.**

	Protocol Management			
Custom Protocol	Custom Protocol 1			
Protocol Name	Custom 1			
Stream Type	Main Stream	Sub-Stream		
Enable Sub-Stream		\checkmark		
Туре	RTSP ~	RTSP ~		
Transfer Protocol	Auto ~	Auto ~		
Port	554	554		
Path	ch1/main/av_stream	ch1/sub/av_stream		
Example: [Type]://[IP Address]:[Port]/[Path] rtsp://192.168.0.1:554/ch1/main/av_stream OK Cancel				
		OR Oancer		
		1		

Figure 3-5 Protocol

Step 4 Edit parameters as required.

Step 5 Click OK

3.3 Edit IP Cameras

Step 1 Select an added IP camera and click Edit.

Step 2 Edit the parameters.

Step 3 Enter **Password.** The password must be correct.

Step 4 Click OK.

Edit Added IP Camera				
Channel No.	D1			
IP Address	10 . 15 . 2 . 250			
Manufacturer	HIKVISION ~			
Management Port	8000			
User Name	admin			
Password	******			
	OK Cancel			

Figure 3-6 Edit IP Camera

3.4 Delete IP Cameras

Step 1 Select an IP camera and click **Delete**.

Step 2 Click **Yes** on the pop-up dialog box.



Figure 3-7 Delete IP Camera

Chapter 4 Camera Management

4.1 Basic Image Settings

4.1.1 Set OSD Parameters

Purpose:

Configure the camera name, OSD (On Screen Display) settings, etc.

Step 1 Go to Menu > Other Settings > Camera.

Cam	era Settings
Camera	Analog 1
Camera Name	Camera 01
Display Type	Camera Name Date Week
Date Format	MM-DD-YYYY
Time Format	24-Hour
OSD Property	Non-Transparent & Not ~
OSD Position	OSD Position
More Setting	Set
Copy to	All ~ Copy
	Apply OK Cancel

Figure 4-1 Camera Settings

- Step 2 Select the **Camera** from the drop-down list.
- Step 3 Edit parameters as your desire.
- Step 4 Optionally, select the camera in Copy to dropdown list and click **Copy** to copy the current settings to the selected camera.

Step 5 Click **OK**.

4.1.2 Set Image Parameters

Step 1 Go to Menu > Other Settings > Camera.

Ca	amera Settings
Camera Camera Name Display Type Date Format Time Format OSD Property OSD Position More Setting	Analog 1 Camera 01 Camera Name Date Week MM-DD-YYYY 24-Hour Non-Transparent & Not ~ OSD Position Set
Copy to	All ~ Copy
	Apply OK Cancel

Figure 4-2 Camera Settings

Step 2 Click Set of More Setting.

	Advanced	
Camera	Analog 1	
Image Settings	Set	
🔽 Private Mask	Area Settings	
🔽 Video-Tampering	Area Settings	Handle
Motion Detection	Area Settings	Handle
Video Loss		Handle
🔽 Video Quality	Set	Handle
🔽 Driver Alarm	Smoking ~	Handle
Mirror Type	Close	
	Apply OK	Cancel

Figure 4-3 More Setting

Step 3 Click **Set** of Image Settings.

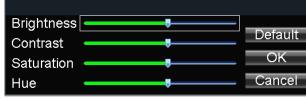


Figure 4-4 Image Settings

Step 4 Edit the parameters.

Step 5 Click OK.

Step 6 Click **OK** in advanced settings interface.

Step 7 Click **OK** in camera settings interface.

4.1.3 Set TVI Camera

Purpose:

Configure the image parameters of connected TVI camera. The feature is only available for TVI camera.

Step 1 Go to Menu > Other Settings > Camera.

Carr	nera Settings
Camera Camera Name Display Type Date Format Time Format OSD Property OSD Position More Setting	Analog 1 Camera 01 Camera Name Date Week MM-DD-YYYY 24-Hour Non-Transparent & Not OSD Position Set
Copy to	All ~ Copy
	Apply OK Cancel

Figure 4-5 Advanced Settings

Step 2 Click Set of More Setting.

Step 3 Click Set of TVI Camera Settings.

TVI Car	mera Settings		
Brightness Saturation Day/Night Switch Color to B/W Sensitivity B/W to Color Sensitivity	Auto	₽ ₽ ₽	
		OK	Cancel

Figure 4-6 TVI Camera Settings

Step 4 Edit the parameters according to your needs.

Step 5 Click **OK** in TVI Camera Settings interface.

Step 6 Click **OK** in Advanced settings interface.

Step 7 Click **OK** in Camera settings interface.

4.2 Set Privacy Mask

Purpose:

The privacy mask can be used to protect personal privacy by concealing parts of the image from view or recording with a masked area.

Step 1 Go to Menu > Other Settings > Camera.

	Advanced		
Camera Image Settings 🗹 Private Mask 🗹 Video-Tampering	Analog 1 Set Area Settings Area Settings	>	Handle
🖂 Motion Detection	Area Settings		Handle
🔽 Video Loss			Handle
🔽 Video Quality	Set		Handle
🔽 Driver Alarm	Smoking		Handle
Mirror Type	Close		
	Apply OK		Cancel

Figure 4-7 Advanced Settings

Step 2 Click Set of More Setting.

Step 3 Check Private Mask.

Step 4 Click Area Settings of Private Mask.

Step 5 Draw areas.

Step 6 Right click and select Exit.

Step 7 Click **OK** in Advanced settings interface.

Step 8 Click **OK** in Camera settings interface.

4.3 Set Mirror Type

Purpose:

Set the mirror type of the image as left/right, up/down, or center. The camera image will change according to the selected mirror type.

The feature is only available for IP camera. (To configure mirror image for analog camera, refer to *4.1.3 Set TVI Camera*.)

Step 1 Go to Menu > Other Settings > Camera.

	Advanced		
Camera Image Settings Private Mask Video-Tampering Motion Detection Video Loss Video Quality Driver Alarm Mirror Type	Analog 1 Set Area Settings Area Settings Area Settings Set Smoking Close	>	Handle Handle Handle Handle Handle
			Osussi
	Apply OK		Cancel

Figure 4-8 Advanced Settings

Step 2 Click Set of More Setting.

Step 3 Select Mirror Type as required.

Step 4 Click **OK** in Advanced settings interface.

Step 5 Click **OK** in Camera settings interface.

Chapter 5 Live View

5.1 Preview Settings

Purpose:

Configure the dwell time of live view, set the camera order, enable/disable the audio preview, etc.

Step 1	Go to	Menu >	Other	Settings	>	Preview.
--------	-------	--------	-------	----------	---	----------

Pre	view Settings	
Video Output	VGA	~
Preview Mode	4 * 4	~
Dwell Time	No Switch	~
Camera Order	Set	
Enable Audio Output		
	Apply O	K Cancel

Figure 5-1 Preview Settings

Step 2 Select the Video Output according to the actual needs.

Step 3 Configure the Preview Mode, Dwell Time, Enable Audio Output.

- Preview Mode: Select the window division mode for live view.
- **Dwell Time:** The switch interval of the live view screen. The screen will be switched to the next one after the selected dwell time.
- Enable Audio Output: Enable/disable audio output for the selected video output.

Step 4 Click OK.

5.2 Set Camera Order

Purpose:

Set the live display order for cameras.

Step 1 Go to Menu > Other Settings > Preview.

Prev	/iew Settings	
Video Output Preview Mode Dwell Time Camera Order Enable Audio Output	VGA 4 * 4 No Switch Set	v v
	Арріу С	K Cancel

Figure 5-2 Preview Settings

Step 2 Click Set of Camera Order.

Step 3 Click **K**/**D** to switch camera.

Step 4 Click OK.

Came	ra Order	
1	2	
K A1	K A2	
3	4	
〈 A3 〉	〈 A4 〉	
	OK Cancel	

Figure 5-3 Camera Order

Step 5 Click **OK** in Preview Settings interface.

5.3 Right-Click Menu

Purpose:

In live view, right click on a camera to pop up right-click menu.



Figure 5-4 Right-Click Menu

Item	Description
Menu	Enter the main menu of the system by right clicking the mouse.
Multi-Screen	Adjust the screen layout by choosing from the dropdown list.
Next Screen	Switch to the next screen.
Playback	Enter the playback interface and start playing back the video of the selected channel immediately.
PTZ	Click to pop up PTZ control panel.

5.4 PTZ Operation

5.4.1 Configure PTZ Settings

Purpose:

Follow the procedure to set the parameters for PTZ. The configuration of the PTZ parameters should be done before you control the PTZ camera.

Before you start:

Connect the RS-485 cables of PTZ camera to EXT.DEV interface of the device.

Step 1 Go to Menu > Other Settings > PTZ.

	PTZ Settings
Camera	Analog 1
Baudrate	9600 ~
Data Bit	8
Stop Bit	1
Parity	None ~
Flow Ctrl	None
PTZ Protocol	PELCO-D ~
Address	0
Copy to	All ~ Copy
	Apply OK Cancel

Figure 5-5 PTZ Settings

Step 2 Select the Camera for PTZ settings.

Step 3 Configure the parameters of the PTZ camera.

All the parameters should be exactly the same with those of the PTZ camera.

Step 4 Click **OK**.

5.4.2 PTZ Control Panel

In live view interface, right click a PTZ camera and click **PTZ** on right-click menu.



Figure 5-6 PTZ Control Panel

Icon	Description	Icon	Description	Icon	Description
	Direction buttons and the auto-cycle button	+	Zoom+, Focus+, Iris+		Zoom-, Focus-, Iris-
Speed < 3 义	Moving speed		Light on/off	0	Wiper on/off

Chapter 6 Storage

6.1 Storage Settings

6.1.1 Format HDD

Purpose:

A newly installed hard disk drive (HDD) must be initialized before it can be used.

Step 1 Go to Menu > Storage.

	Sto	rage Manage	ment		
Overwrite Yes		Pictur	e Partition(%) 10	
✓No. Туре	Status	Capacity	Rec Free	Pic Free	
🔽 1 HDD	Normal	931.51GB	828.25GB	93GB	
	S.M.A.R.	T Info For	mat OK	Cancel	
	0.WI.7.1X.			Gancer	

Figure 6-1 Storage Management

Step 2 Check the HDD to format.

Step 3 Click Format.

6.1.2 Configure Overwrite

Purpose:

The overwrite function is enabled by default. If the function is disabled, the recording will stop when the storage device is full.

Step 1 Go to Menu > Storage.

		Sto	rage Manage	ment		
Overwrite	Yes		Picture Partition(%) 10			
✓No.	Туре	Status	Capacity	Rec Free	Pic Free	
✓ 1	HDD	Normal	931.51GB	828.25GB	93GB	
		S.M.A.R.	T Info For	mat OK	Cancel	

Figure 6-2 Storage Management

Step 2 Select **Overwrite** as **Yes** or **No**.

Step 3 Click OK.

6.1.3 Configure Picture Partition

Purpose:

Specify the percentage of picture partition among the whole storage capacity. You can start capturing in eHome platform.

Step 1 Go to Menu > Storage.



Figure 6-3 Storage Management

Step 2 Enter Picture Partition.

Step 3 Click **Yes** on popup message box to format HDD.

Step 4 Click **OK** to confirm the operation.

Step 5 Click OK.

6.1.4 View S.M.A.R.T. Information

Purpose:

The S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) is a monitoring system for HDD to detect and report on various indicators of reliability in the hopes of anticipating failures.

Step 1 Go to Menu > Storage.

	Sto	rage Managei	ment		
Overwrite Yes		Pictur	e Partition(%) 10	
✓No. Туре	Status	Capacity	Rec Free	Pic Free	
🔽 1 HDD	Normal	931.51GB	828.25GB	93GB	
	S.M.A.R.	T Info For	mat OK	Cancel	

Figure 6-4 Storage Management

Step 2 Select an HDD.

Step 3 Click S.M.A.R.T. Info.

		S.M.A.R.T	Info		
Hard D		Hard Disk1			
S.M.A.R.T Info					
ID	Property			Flags	
0x1	Raw Read	Raw Read Error Rate			51_
0x4	Start/Stop	Start/Stop Count			0 =
0x5	Reallocate	Reallocated Sector Count		33	14
0x7	Seek Erro	Seek Error Rate		2e	0
0x9	Power-on	Power-on Hours Count		32	0
0xa	Spin Up F	Spin Up Retry Count		32	0
Nyh	Calibratio	Calibration Retry Count		32	
					<u>></u>
				E)	kit

Figure 6-5 S.M.A.R.T Information

6.2 Recording Settings

6.2.1 Configure Record Settings

Purpose:

Configure the transmission stream type, the resolution, frame rate, etc.

Step 1 Go to Menu > Basic Settings > Record.

Record Settings				
Camera	Analog 1	-		
Encoding Parameters	Main Stream(Normal)	•		
Stream Type	Video & Audio	~		
Resolution	720p	~		
Bitrate Type	Variable	~		
Video Quality	Medium	~		
Frame Rate	6	~		
Max. Bitrate(Kbps)	2048	~		
Schedule	Set			
More Settings	Set			
Copy to	All	~ Сору		
	Apply OK	Cancel		

Figure 6-6 Record Settings

Step 2 Select camera in Camera drop-down list.

Step 3 Configure the image parameters.

- Encoding Parameters
 - > Main Stream (Normal): Used for continuous recording.
 - Main Stream (Event): Used for event recording.
 - Sub Stream: Used for network transmission.
- Stream Type

Video and Video & Audio are selectable.

- Bitrate Type
 - Variable and Constant are selectable.
 - Variable: The video quality is configurable.
 - Constant: The video quality is set as Medium and cannot be edited.
- Video Quality

Bitrate type is variable, you can set the video quality as Highest, Higher, Medium, Low, Lower, or Lowest.

• Frame Rate

Frame rate refers to the frequency of the image frame after compression. With other parameters constant, reduce the video frame rate, and you can lower the maximum bitrate to some extent.

• Max. Bitrate(Kbps)

Select the fixed value provided by the system or customize the maximum bitrate as desired.

Step 4 Edit recording schedule. For details, refer to 6.2.5 Configure Schedule.

Step 5 Click Set of More Settings to configure the pre-record and post-record time.

• **Pre-Record:** Normally used for the event (motion or alarm) triggered record, when you want to record before the event happens. For example, when an alarm occurs at 10:00, if the pre-record time is set as 5 seconds, the camera records the alarm at 9:59:55.

• **Post-Record:** After the event finished, the video can also be recorded for a certain time. For example, when an alarm ends at 11:00, if the post-record time is set as 5 seconds, the camera records till 11:00:05.

Step 6 Click **OK**.

6.2.2 Configure Motion Detection Recording

Purpose:

In the motion detection recording, once a motion event occurs, the device starts to record.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

Advanced			
Camera	Analog 1		
Image Settings	Set		
🔽 Private Mask	Area Settings		
🔽 Video-Tampering	Area Settings		Handle
Motion Detection	Area Settings		Handle
🖂 Video Loss			Handle
🔽 Video Quality	Set		Handle
🔽 Driver Alarm	Smoking		Handle
Mirror Type	Close		
	Apply OK		Cancel

Figure 6-7 Motion Detection Settings

- Step 3 Check Motion Detection.
- Step 4 Click Area Settings of Motion Detection.
- Step 5 Edit area settings. For details, refer to 10.14 Configure Detection Area.
- Step 6 Click **OK**.
- Step 7 Set motion detection recording schedule. For details, refer to *6.2.5 Configure Schedule*. Recording type should be alarm, motion alarm, or motion&alarm.

6.2.3 Configure Alarm Triggered Recording

Purpose:

Follow the procedure to configure alarm triggered recording.

Step 1 Go to Menu > Other Settings > Alarm In.

Alarm	Input Settings	
	inipat oottinigo	
Alarm Input No.	A<-1	
Alarm Name		
Trigger Level	High Level	
Trigger Record Channel	Set	
Schedule	Set	
Linkage Action	Set	
Copy to	All	~ Сору
	Apply OK	Cancel

Figure 6-8 Alarm Input Settings

Step 2 Click Set of Trigger Record Channel to select the alarm triggered recording channel(s).

Step 3 Click **OK**.

Step 4 Enter the Record Settings interface to set alarm triggered recording schedule. Refer to *Chapter 3.1.2* for record settings. Recording type should be alarm, motion | alarm, or motion & alarm.

6.2.4 Configure Alarm Terminal

Before you start:

- Install an alarm terminal. For details, refer to alarm terminal user manual.
- The RS-232 serial port should be used in the way of transparent channel and the baud rate should be set as 9600.

Step 1 Go to Menu > Other Settings > Alarm Terminal.

Alarm	Terminal Settings
Enable Alarm Terminal Terminal Name	Alarm Terminal
Trigger Alarm Output Trigger Record Channe	All 1 2
	Apply OK Cancel

Figure 6-9 Alarm Terminal

Step 2 Check Enable Alarm Terminal.

Step 3 Edit the terminal name in **Terminal Name** text field.

Step 4 Select **Set** of **Trigger Record Channel** to set alarm triggered recording channel(s). Step 5 Click **OK**.

6.2.5 Configure Schedule

Step 1 Go to Menu > Basic Settings > Record.

- Step 2 Click Set of Schedule.
- Step 3 Check Enable Schedule.

Step 4 Select the day from the dropdown list for settings.

Step 5 Configure all day schedule or custom schedule.

- Check **All Day** to enable all-day recording, and then select the recording type from the drop-down list.
- Uncheck **All Day**, customize the time period for recording, and select the recording type for each time period.

Step 6 Click **OK**.

- 5 recording types are selectable: Normal, Motion Detection, Alarm, Motion | Alarm, and Motion&Alarm.
- Up to 8 time periods can be set for each day and each of the time periods cannot be overlapped.

					Record	d Cotti	000			
					Recon	i Setti	ngs			
	🔽 Ena	ible 3	Schec	lule						
	Day	'S			All	Wee	k			
	🗸 All-I	Day						Туре	Normal	
1	0	:	0		0	:	0	Туре	Normal	~
2	0	:	0		0	:	0	Туре	Normal	~
3	0		0		0	:	0	Туре	Normal	~
4	0	:	0		0	:	0	Туре	Normal	~
5	0	:	0		0	:	0	Туре	Normal	~
6	0	:	0		0	:	0	Туре	Normal	~
7	0	:	0		0	:	0	Туре	Normal	~
								OK	Cance	

Figure 6-10 Record Schedule Settings

6.3 Sensor-in Settings

Purpose:

Sensor-in detects and records the driving information of the vehicle, including pedal braking, turning left/right, reversing, etc.

Step 1 Go to Menu > Basic Settings > Sensor-In.

	Ser	nsor-In Settings	
Seq	Sensor-In Behavior	Triggering Level	Full Screen Monitoring
S1	Brake ~	High Level ~	No Triggering ~
S2	Left Turn -	High Level ~	No Triggering ~
S 3	Right Turn 🗸 🗸	High Level ~	No Triggering ~
S4	Reverse ~	High Level ~	No Triggering ~
			OK Cancel

Figure 6-11 Sensor-In Settings

Step 2 Set Triggering Level and Full Screen Monitoring for sensor-in.

Step 3 Click OK.

Chapter 7 Playback

7.1 Instant Playback

Purpose:

You can search and play back the record files stored on the device instantly.

Step 1 Go to Menu > Video Search.

	Video Search	
Search Mode Camera	General Analog 1	
Video Type Start Time	All < 2017 < 8	
End Time		
	Play Se	earch Cancel

Figure 7-1 Video Search

Step 2 Select Search Mode as General. Only general videos support instant playback.

General: Normal videos

Step 3 Select Camera.

Step 4 Select Video Type.

Step 5 Specify Start Time and End Time.

Step 6 Click **Play** to play back the matched videos.

If more than 4,000 videos are found, the top 4,000 items have the priority to be played.

7.2 Play Video by File

Purpose:

You can search and play back the record files stored on the mobile video recorder.

Step 1 Go to Menu > Video Search.

	Video Search	
Search Mode	General	
Camera	Analog 1	
Video Type	All	
Start Time	〈 2017 〉 〈 8	> < 23 >
	〈 0 〉 : 〈 0): (0)
End Time	〈 2017 〉 〈 8	> < 23 >
	〈 23 〉 : 〈 5	9 🔪 : < 59 🗲
	Play	Search Cancel

Figure 7-2 Video Search

Step 2 Select Search Mode.

- General: Normal videos
- **Event**: Motion detection, alarm, motion | alarm, motion&alarm videos.

Step 3 Select Camera.

Step 4 Select Video Type.

Step 5 Specify Start Time and End Time.

Step 6 Click **Search**. The matched videos will be displayed.

	Search	Results	
Channel	Start Time	End Time	Size
🗹 A1	08-23-2017 00:00:02	04:43:12	170,507 KB
🗹 A1	08-23-2017 04:43:12	11:48:43	256,238 KB
🗹 A1	08-23-2017 16:36:41	16:37:08	378 KB
🗹 A1	08-23-2017 16:37:08	19:06:06	89,694 KB
Total Size: 5	04MB	Play Exp	oort Cancel

Figure 7-3 Search Result

Step 7 Select a video and click Play.

Chapter 8 Platform

- When your device and the platform are not in the same network segment, network priority: 3G/4G > Wi-Fi > Wired network.
- For details about platform operation, refer to platform user manual.

8.1 eHome

Purpose:

The device can be remotely accessed via mobile surveillance platform.

Before you start:

Create the device ID on mobile surveillance platform.

Step 1 Go to Menu > Basic Settings > Platform.

Platf	form Settings
Enable Platform	
Select Platform	Platform eHome ~
Server IP	0.0.0.0
Port No.	7660
Device Register ID	365562966
	OK Cancel

Figure 8-1 Platform Settings

Step 2 Check Platform Enable.

Step 3 Select Platform as Platform eHome.

Step 4 Configure the following parameters.

- Server IP: Enter the static IP address of mobile surveillance platform.
- **Port No.**: The default value is 7660.
- **Device Register ID**: The ID of the device registered on the mobile surveillance platform. If you leave it empty, device logs in to the platform with serial No.

Step 5 Click **OK**.

Step 6 Optionally, go to **Menu > Status > Platform** to view the platform status.

 You can download mobile surveillance platform to your computer by visiting our official website and going to Home > VMS > Support > Download > iVMS-5200 Mobile Surveillance.

Official website: http://www.hikvision.com/en/

• You can download iVMS-5260M to your mobile phone by search it in app store/google play or scan QR code below.



Figure 8-2 iOS



Figure 8-3 Android

8.2 Guarding Vision

Purpose:

The device can be remotely accessed via guarding vision platform.

Before you start:

Register the device in guarding vision platform. For detailed steps, refer to 8.3 Register Device in Guarding Vision platform.

Step 1 Go to Menu > Basic Settings > Platform.

Step 1 Check Enable Platform.

Step 2 Select Platform as Guarding Vision.

Step 3 Click **OK**.

Step 4 Optionally, go to **Menu > Status > Platform** to view the platform status.

8.3 Register Device in Guarding Vision platform

Step 1 Access Guarding Vision platform.

- For computer user: dev.guardingvision.com.
- For mobile phone user: download Guarding Vision app.

Step 2 Log in the platform.

Step 3 Register device by adding the device serial number and verification code.

Chapter 9 Backup

9.1 Manual Backup

Purpose:

Back up the videos stored on the device.

Step 1 Go to **Menu > Video Search**.

	Video Search	
Search Mode	General	~
Camera	Analog 1	~
Video Type	All	~
Start Time	< 2017	
End Time	2017 8 23 : 59	<pre>< 23 > : < 59 ></pre>
	Play Sea	arch Cancel

Figure 9-1 Video Search

Step 2 Select Search Mode.

- General: Normal videos
- **Event**: Motion detection, alarm, motion | alarm, motion&alarm videos.

Step 3 Select Camera.

Step 4 Select Video Type.

Step 5 Specify Start Time and End Time.

Step 6 Click **Search**. The matched videos will be displayed.

	Search	Results	
Channel	Start Time	End Time	Size
🗹 A1	08-23-2017 00:00:02	04:43:12	170,507 KB
🗹 A1	08-23-2017 04:43:12	11:48:43	256,238 KB
🗹 A1	08-23-2017 16:36:41	16:37:08	378 KB
🗹 A1	08-23-2017 16:37:08	19:06:06	89,694 KB
Total Size: 5	04MB	Play Ex	port Cancel

Figure 9-2 Search Result

Step 7 Select the videos and click **Export**.

9.2 Format Backup Device

Purpose:

View the status and the free space/capacity of the connected backup device. And you can also format the backup device.

Step 1 Go to Menu > Maintenance > Storage.



Figure 9-3 Backup Device

Step 2 Select the Backup Device.

Step 3 View the **Status** and **Free Space/Capacity** of the backup device.

Step 4 Optionally, click **Format** to format the selected backup device.

Chapter 10 Events and Alarms

10.1 Configure Motion Detection Alarm

Purpose:

When motion detection alarm is configured, once a motion event is detected, the device starts to record and multiple linkage actions will be triggered.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

	Advanced		
Camera	Analog 1		
Image Settings	Set		
🔽 Private Mask	Area Settings		
🗸 Video-Tampering	Area Settings		Handle
Motion Detection	Area Settings		Handle
🗸 Video Loss			Handle
🔽 Video Quality	Set		Handle
🔽 Driver Alarm	Smoking		Handle
Mirror Type	Close		
	Apply OI	<	Cancel

Figure 10-1 Motion Detection Settings

- Step 3 Check **Motion Detection** to enable the function.
- Step 4 Set the area for motion detection. For detailed steps, refer to 10.14 Configure Detection Area.
- Step 5 Set the arming schedule and alarm linkage actions. For detailed steps, refer to 10.11 Add Smart Terminal
- Step 6 Purpose:
- Step 7 *Smart* terminal detects driver behavior and uploads information to mobile video recorder.

Before you start:

Add an IP camera to both smart terminal and mobile video recorder.

Step 8 Log into device via web browser.

Step 9 Go to Configuration > Vehicle > Smart Terminal Access.

Smart Terminal Access		
Enable		
Server Address	0.0.0.0	
Port	8000	
User Name	admin	
Password	•••••	
Confirm	•••••	
Connect Status	Connection failed	
🗎 Save		

Figure 10-2 Smart Terminal Access

Step 10 Check Enable.

Step 11 Enter smart terminal information.

Step 12 Click Save.

10.2 Configure Driver Alarm

Purpose:

During armed period, once the specified driver alarm is detected, the set linkage actions will be triggered.

Before you start:

Add smart terminal. For details, refer to 10.11 Add Smart Terminal.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

- Step 3 Check Driver Alarm.
- Step 4 Select a type of driver alarm to configure.
- Step 5 Click Handle of driver alarm.
- Step 6 Set arming schedule and linkage actions. For detailed steps, refer to 10.13 Configure Arming Schedule and Linkage Actions.
- Step 7 Configure Arming Schedule and Linkage Actions.

Step 8 Click **OK**.

10.3 Configure Alarm Input

Purpose:

Configure the settings for alarm input, including trigger level, arming schedule and alarm linkage actions, etc.

Step 1 Go to Menu > Other Settings > Alarm In.

Alarm	Input Settings	
Alarm Input No. Alarm Name	A<-1	•
Trigger Level	High Level	~
Trigger Record Channel	Set	
Schedule	Set	
Linkage Action	Set	
Copy to	All	~ Сору
	Appiy OK	Cancel

Figure 10-3 Alarm Input Settings

Step 2 Select Alarm Input No.

Step 3 Enter Alarm Name.

Step 4 Select Trigger Level.

- High level: 6 to 36 VDC.
- Low level: 0 to 5 VDC

In order to avoid error caused by voltage fluctuation, no alarm will be triggered by voltage ranging from 5 VDC to 6 VDC.

Step 5 Click **Set** of **Schedule** to set arming schedule. For detailed steps, refer to 10.12 Add Smart Terminal

Step 6 Purpose:

Step 7 *Smart* terminal detects driver behavior and uploads information to mobile video recorder.

Before you start:

Add an IP camera to both smart terminal and mobile video recorder.

Step 8 Log into device via web browser.

Step 9 Go to Configuration > Vehicle > Smart Terminal Access.

Smart Terminal Access		
Enable		
Server Address	0.0.0.0	
Port	8000	
User Name	admin	
Password	•••••	
Confirm	•••••	
Connect Status	Connection failed	
🖹 Save		

Figure 10-4 Smart Terminal Access

Step 10 Check Enable.

Step 11 Enter smart terminal information.

Step 12 Click Save.

10.4 Configure Driver Alarm

Purpose:

During armed period, once the specified driver alarm is detected, the set linkage actions will be triggered.

Before you start:

Add smart terminal. For details, refer to 10.11 Add Smart Terminal.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

- Step 3 Check Driver Alarm.
- Step 4 Select a type of driver alarm to configure.
- Step 5 Click Handle of driver alarm.
- Step 6 Set arming schedule and linkage actions. For detailed steps, refer to 10.13 Configure Arming Schedule and Linkage Actions.
- Step 7 Configure Arming Schedule and Linkage Actions.
- Step 8 Check Linkage Action and click Set of Linkage Action to set the linkage actions. For detailed steps, refer to 10.13 Add Smart Terminal

Step 9 Purpose:

Step 10 *Smart* terminal detects driver behavior and uploads information to mobile video recorder.

Before you start:

Add an IP camera to both smart terminal and mobile video recorder.

Step 11 Log into device via web browser.

Step 12 Go to Configuration > Vehicle > Smart Terminal Access.

Smart Terminal Access	
Enable	
Server Address	0.0.0.0
Port	8000
User Name	admin
Password	•••••
Confirm	•••••
Connect Status	Connection failed
🗎 Save	

Figure 10-5 Smart Terminal Access

Step 13 Check Enable.

Step 14 Enter smart terminal information.

Step 15 Click Save.

10.5 Configure Driver Alarm

Purpose:

During armed period, once the specified driver alarm is detected, the set linkage actions will be triggered.

Before you start:

Add smart terminal. For details, refer to 10.11 Add Smart Terminal.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

Step 3 Check Driver Alarm.

Step 4 Select a type of driver alarm to configure.

Step 5 Click Handle of driver alarm.

- Step 6 Set arming schedule and linkage actions. For detailed steps, refer to 10.13 Configure Arming Schedule and Linkage Actions.
- Step 7 Configure Arming Schedule and Linkage Actions.

Step 8 Click OK.

10.6 Configure Alarm Output

Purpose:

Configure the arming schedule, alarm duration time and alarm name for alarm output.

```
Step 1 Go to Menu > Other Settings > Alarm Out.
```

Alarm	Output Settings	
Alarm Output No. Alarm Name Dwell Time Arming Schedule Copy to	A->1 5s Set	~ ~ Сору
	Apply OK	Cancel

Figure 10-6 Alarm Output Settings

- Step 2 Select Alarm Output No.
- Step 3 Enter Alarm Name.
- Step 4 Select Dwell Time.
- Dwell Time: Alarm output will keep alarming for the dwell time.
- Step 5 Click **Set** of **Schedule** to set the arming schedule for alarm outputs. For detailed steps, refer to 10.14 Add Smart Terminal

Step 6 Purpose:

Step 7 *Smart* terminal detects driver behavior and uploads information to mobile video recorder.

Before you start:

Add an IP camera to both smart terminal and mobile video recorder.

Step 8 Log into device via web browser.

Step 9 Go to Configuration > Vehicle > Smart Terminal Access.

Smart Terminal Access	
Enable	
Server Address	0.0.0.0
Port	8000
User Name	admin
Password	•••••
Confirm	•••••
Connect Status	Connection failed
🗎 Save	

Figure 10-7 Smart Terminal Access

Step 10 Check Enable.

Step 11 Enter smart terminal information.

Step 12 Click Save.

10.7 Configure Driver Alarm

Purpose:

During armed period, once the specified driver alarm is detected, the set linkage actions will be triggered.

Before you start:

Add smart terminal. For details, refer to 10.11 Add Smart Terminal.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

- Step 3 Check Driver Alarm.
- Step 4 Select a type of driver alarm to configure.
- Step 5 Click Handle of driver alarm.
- Step 6 Set arming schedule and linkage actions. For detailed steps, refer to 10.13 Configure Arming Schedule and Linkage Actions.
- Step 7 Configure Arming Schedule and Linkage Actions.

Step 8 Click **OK**.

10.8 Configure Alarm Terminal

Step 1 Go to Menu > Other Settings > Alarm Terminal.

Alarm	Terminal Settings
Enable Alarm Terminal Terminal Name	Alarm Terminal
Trigger Alarm Output Trigger Record Channe	All 1 2
	Apply OK Cancel

Figure 10-8 Alarm Terminal

Step 2 Check Enable Alarm Terminal.

Step 3 Edit the Terminal Name.

Step 4 Select the alarm outputs to trigger.

Step 5 Click **OK**.

10.9 Configure Video Loss Alarm

Purpose:

When the device cannot receive video signal from the front-end devices, the video loss alarm will be triggered. Linkage actions, including audible warning and alarm output, can be set to respond.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

	Advanced	
Camera	Analog 1	
Image Settings	Set	
🔽 Private Mask	Area Settings	
🔽 Video-Tampering	Area Settings	Handle
Motion Detection	Area Settings	Handle
Video Loss		Handle
🔽 Video Quality	Set	Handle
🔽 Driver Alarm	Smoking	Handle
Mirror Type	Close	
	Apply OK	Cancel

Figure 10-9 Video Loss

Step 3 Check Video Loss.

- Step 4 Set arming schedule and linkage actions. For detailed steps, refer to 10.15 Add Smart Terminal
- Step 5 Purpose:
- Step 6 *Smart* terminal detects driver behavior and uploads information to mobile video recorder.

Before you start:

- Add an IP camera to both smart terminal and mobile video recorder.
- Step 7 Log into device via web browser.

Step 8 Go to Configuration > Vehicle > Smart Terminal Access.

Smart Terminal Access	
Enable	
Server Address	0.0.0.0
Port	8000
User Name	admin
Password	•••••
Confirm	•••••
Connect Status	Connection failed
🖹 Save	

Figure 10-10 Smart Terminal Access

Step 9 Check Enable.

Step 10 Enter smart terminal information.

Step 11 Click Save.

10.10 Configure Driver Alarm

Purpose:

During armed period, once the specified driver alarm is detected, the set linkage actions will be triggered.

Before you start:

Add smart terminal. For details, refer to 10.11 Add Smart Terminal.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

Step 3 Check Driver Alarm.

Step 4 Select a type of driver alarm to configure.

- Step 5 Click Handle of driver alarm.
- Step 6 Set arming schedule and linkage actions. For detailed steps, refer to 10.13 Configure Arming Schedule and Linkage Actions.
- Step 7 Configure Arming Schedule and Linkage Actions.

Step 8 Click OK.

10.11 Configure Video Tampering Alarm

Purpose:

A tampering alarm is triggered when the camera is covered and the monitoring area cannot be viewed. Linkage actions, including audible warning, alarm output, can be set to respond.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

	Advanced	
Camera Image Settings Private Mask Video-Tampering Motion Detection Video Loss Video Quality Driver Alarm Mirror Type	Advanced Analog 1 ~ Set Area Settings Area Settings Area Settings Set Smoking ~ Close ~	Handle Handle Handle Handle Handle
	Apply OK	Cancel

Figure 10-11 Video-Tampering

Step 3 Check Tamper-proof.

Step 4 Set area for video tampering detection. For detailed steps, refer to 10.19 Configure Detection Area.

The video tampering alarm can be triggered only when the view of the camera is fully covered.

Step 5 Set arming schedule and linkage actions. For detailed steps, refer to 10.16 Add Smart Terminal

Step 6 Purpose:

Step 7 *Smart* terminal detects driver behavior and uploads information to mobile video recorder.

Before you start:

Add an IP camera to both smart terminal and mobile video recorder.

Step 8 Log into device via web browser.

Step 9 Go to Configuration > Vehicle > Smart Terminal Access.

Smart Terminal Access	
Enable	
Server Address	0.0.0.0
Port	8000
User Name	admin
Password	•••••
Confirm	•••••
Connect Status	Connection failed
🖹 Save	

Figure 10-12 Smart Terminal Access

Step 10 Check Enable.

Step 11 Enter smart terminal information.

Step 12 Click Save.

10.12 Configure Driver Alarm

Purpose:

During armed period, once the specified driver alarm is detected, the set linkage actions will be triggered.

Before you start:

Add smart terminal. For details, refer to 10.11 Add Smart Terminal.

Step 1 Go to Menu > Other Settings > Camera.

- Step 2 Click Set of More Setting.
- Step 3 Check Driver Alarm.
- Step 4 Select a type of driver alarm to configure.
- Step 5 Click Handle of driver alarm.
- Step 6 Set arming schedule and linkage actions. For detailed steps, refer to 10.13 Configure Arming Schedule and Linkage Actions.

Step 7 Configure Arming Schedule and Linkage Actions.

Step 8 Click OK.

10.13 Configure Video Quality Diagnostics

Purpose:

When your analog camera is out of focus, the linkage actions will be triggered.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

	Advanced		J
Camera Image Settings ✓ Private Mask ✓ Video-Tampering ✓ Motion Detection ✓ Video Loss	Analog 1 Set Area Settings Area Settings Area Settings	 Handle Handle Handle 	
✓ Video Quality✓ Driver AlarmMirror Type	Set Smoking Close	Handle - Handle -	
	Apply OK	Cancel	

Figure 10-13 Video Quality Settings

- Step 3 Check Video Quality to enable the function.
- Step 4 Set arming schedule and linkage actions. For detailed steps, refer to 10.17 Add Smart Terminal
- Step 5 Purpose:
- Step 6 *Smart* terminal detects driver behavior and uploads information to mobile video recorder.

Before you start:

Add an IP camera to both smart terminal and mobile video recorder.

Step 7 Log into device via web browser.

Step 8 Go to Configuration > Vehicle > Smart Terminal Access.

Smart Terminal Access	
Enable	
Server Address	0.0.0.0
Port	8000
User Name	admin
Password	•••••
Confirm	•••••
Connect Status	Connection failed
🖹 Save	

Figure 10-14 Smart Terminal Access

Step 9 Check Enable.

Step 10 Enter smart terminal information.

Step 11 Click Save.

10.14 Configure Driver Alarm

Purpose:

During armed period, once the specified driver alarm is detected, the set linkage actions will be triggered.

Before you start:

Add smart terminal. For details, refer to 10.11 Add Smart Terminal.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

- Step 3 Check Driver Alarm.
- Step 4 Select a type of driver alarm to configure.
- Step 5 Click Handle of driver alarm.
- Step 6 Set arming schedule and linkage actions. For detailed steps, refer to 10.13 Configure Arming Schedule and Linkage Actions.
- Step 7 Configure Arming Schedule and Linkage Actions.

Step 8 Click **OK**.

10.15 Configure Exception Alarm

Purpose:

Configure alarms which are triggered by exceptions to take necessary actions in time.

Step 1 Go to Menu > Other Settings > Exception.



Figure 10-15 Exception

Step 2 Select **Exception Type** and set corresponding alarm linkage actions, including audible warning and alarm output.

Step 3 Click **OK**.

Info:

Exception types include:

- HDD Full: The HDD is full.
- HDD Error: Writing HDD error, unformatted HDD, etc.
- **Network Disconnected:** Network cable is disconnected.
- IP Conflicted: Duplicated IP address.
- Illegal Login: Incorrect user ID or password.
- Video Output Standard Mismatch: I/O video standards do not match.
- Abnormal Recording: No space for saving recorded files.

10.16 Configure Satellite Positioning

Purpose:

The built-in GNSS module supports GPS (Global Positioning System), enabling device positioning and speed limit alarm.

Step 1 Go to Menu > Basic Settings > Position.

Positi	oning Settings
Positioning Module Satellite Time Adjusting Time Zone Speed Unit	Built-in ~ (GMT+08:00) Beijing, U ~ km/h ~
Speed Limit Audible Warning	100
Trigger Alarm Output	All 1 2
Display Channel	Set
	OK Cancel

Figure 10-16 Position

Step 2 Select Positioning Module.

- **RS-232**: Obtain data from the satellite positioning module connected through RS-232 interface.
- **RS-485**: Obtain data from the satellite positioning module connected through RS-485 interface.
- **Built-in**: Obtain data from the satellite positioning module built in the mobile video recorder.
- **Display Terminal**: Obtain data from display terminal.

Step 3 Check Satellite Time Adjusting and select your time zone.

Step 4 Select Speed Unit and input Speed Limit.

- Step 5 Set the linkage action for speeding alarm, including **Audible Warning** and **Alarm Output**.
- Step 6 Click **Set** of **Display Channel** and select display channels. The device positioning information will be displayed on the selected channels.
- Step 7 Click OK.

Step 8 Optionally, go to Menu > Status > Position to view positioning status.

10.17 Configure G-Sensor Alarm

Purpose:

G-Sensor detects and records acceleration information in 3-axial (X, Y, Z) directions.

Before you start:

Connect an external sensor to the device for obtaining and providing the acceleration speed in 3-axial directions.

Step 1 Go to Menu > Basic Settings > G-Sensor.

G-S	Sensor Settings
Module X Coordinate Alarm Y Coordinate Alarm Z Coordinate Alarm	RS-232 ± < 1 > < 0 > G ± < 1 > < 0 > G ± < 1 > < 0 > G
Alarm Handling Audible Warning	
Trigger Alarm Output	All 1 2
	OK Cancel

Figure 10-17 G-Sensor Settings

Step 2 Select you G-sensor mode under **Module**:

- **RS-232**: The G-sensor is connected to the mobile video recorder through RS-232 interface.
- **Built-in:** The G-sensor is built in the mobile video recorder.

Step 3 Set the limit value for acceleration alarm in X, Y and Z directions.

X, Y and Z represent the direction of acceleration and the unit of alarm value is G (G=9.8 m/s^2).

Step 4 Set the linkage actions for acceleration alarm, including **Audible Warning** and **Alarm Output**.

Step 5 Click **OK**.

Step 6 Optionally, go to Menu > Status > G-sensor to view the G-sensor status.

10.18 Add Smart Terminal

Purpose:

Smart terminal detects driver behavior and uploads information to mobile video recorder.

Before you start:

Add an IP camera to both smart terminal and mobile video recorder.

Step 1 Log into device via web browser.

Step 2 Go to Configuration > Vehicle > Smart Terminal Access.

Smart Terminal Access				
Enable				
Server Address	0.0.0.0			
Port	8000			
User Name	admin			
Password	•••••			
Confirm	•••••			
Connect Status	Connection failed			
🖹 Save				

Figure 10-18 Smart Terminal Access

Step 3 Check Enable.

Step 4 Enter smart terminal information.

Step 5 Click Save.

10.19 Configure Driver Alarm

Purpose:

During armed period, once the specified driver alarm is detected, the set linkage actions will be triggered.

Before you start:

Add smart terminal. For details, refer to 10.11 Add Smart Terminal.

Step 1 Go to Menu > Other Settings > Camera.

Step 2 Click Set of More Setting.

- Step 3 Check Driver Alarm.
- Step 4 Select a type of driver alarm to configure.
- Step 5 Click Handle of driver alarm.
- Step 6 Set arming schedule and linkage actions. For detailed steps, refer to 10.13 Configure Arming Schedule and Linkage Actions.

10.20 Configure Arming Schedule and Linkage Actions

Step 1 Click Handle to set the arming schedule and alarm linkage actions.

Step 2 Select the day from Arming Schedule dropdown list.

Step 3 Set the arming period for selected day.

Step 4 (Optional) Copy the current settings to other days in the week.

Step 5 Check to enable linkage actions.

• Full Screen Monitoring

When an alarm is triggered, the local monitor displays the video image from the alarming channel configured for full screen monitoring.

Audible Warning

Trigger an audible beep when an alarm is detected.

• Trigger Alarm Output

Trigger an alarm output when an alarm is detected.

Step 6 Click OK.

Exception Handle	
Arming Schedule Mon 1 0 >	~
Copy to All Week Full Screen Monitoring Audible Warning	 Copy
All 1 2	
Trigger Alarm Output	
Triggered Camera Set	
Apply OK	Cancel

Figure 10-19 Linkage Action

10.21 Configure Detection Area

Step 1 Click Area Settings.

Step 2 Draw to draw detection area.

Step 3 Optionally, right click to delete areas or set detection sensitivity.

Step 4 Right click and select Exit.

Chapter 11 User Account Management

11.1 Add User

Purpose:

Add and delete users, and modify the password and permission of users.

Step 1 Go to Menu > Other Settings > User.



Figure 11-1 User Management

Step 2 Click Add.

	Add	
User Name		
Password		
Confirm		
contains two or r	ranges from 8 to 16 char nore character combinat ic, lowercase, uppercase	tions,
Level	Guest	
Permission: previe	w, playback, log query	
		OK Cancel

Figure 11-2 Add User

Step 3 Enter User Name and Password and enter the same password in Confirm.

Step 4 Select the user permission level.

- **Operator:** The operator has permissions for Preview, Playback, Backup, Log Search and Parameters Settings.
- **Guest:** The Guest has permissions for Preview, Playback, Backup and Log Search.

Step 5 Click OK.

11.2 Delete User

Step 1 Go to Menu > Other Settings > User.

Step 2 Select a user and click **Delete**.

Step 3 Click **Yes** in confirmation message box.

11.3 Edit User

Step 1 Go to Menu > Other Settings > User.

Step 2 Select a user and click Modify.

Step 3 Edit parameters as required.

Step 4 Click **OK**.

Chapter 12 General System Configuration

12.1 Configure Basic Display Settings

Purpose:

Set system time, select CVBS output standard, enable password and configure DST settings, etc.

Step 1 Go to Menu > Other Settings > Display.

The system language is set as **English** by default and is not editable.

Dis	play Settings
Language CVBS Output Standard System Time	English ~ NTSC ~ < 2017 > < 8 > < 25 > < 11 > : < 4 > : < 43 >
VGA Resolution Enable Password DST Settings Advanced Setting	1024*768/60HZ ~ Set Set
	Apply OK Cancel

Figure 12-1 Display Settings

Step 2 Edit parameters as required.

- **CVBS Output Standard**: **NTSC** or **PAL** are selectable. Set it according to actual video input standard.
- **System Time**: Set it by adjusting year, month, day, hour, minute, and second.
- VGA Resolution: Specify the VGA output resolution.
- Enable Password: Check it to enable authentication before operations.

Step 3 Click **OK**.

12.2 Configure DST Settings

Purpose:

Configure DST (Daylight Saving Time) settings for the system.

Step 1 Go to Menu > Other Settings > Display.

Step 2 Click Set of DST Settings.

Display Settings							
📄 Enab	le DST						
From	Apr	~ 1st	~	Sun	~	2	: 00
То	Oct	~ Last	\sim	Sun	Ý	2	: 00
DST Bia	s 60 Mir	nutes		v			
			Ар	ply	OK	Canc	el

Figure 12-2 DST Settings

Step 3 Check Enable DST.

Step 4 Set the start time and end time for DST.

Step 5 Select DST bias.

Step 6 Click **OK** in DST settings interface.

Step 7 Click **OK** in Display Settings.

12.3 Configure NTP

Step 1 Go to Menu > Basic Settings > Network.

Network Settings					
IP Address	10 .	. 15	. 2	. 200	
Subnet Mask	255 .	. 255	. 255	. 0	
Default Gateway	10 .	. 15	. 2	. 254	
Preferred DNS Server					
Alternate DNS Server					
MAC Address	5c:00	:08:60	d:09:3	0	
Static IP Address	192.1	68.1.6	65		
NTP			Set		
More Settings			Set		
		Appl	у	OK	Cancel

Figure 12-3 Local Network Settings

Step 2 Click **Set** of **NTP**.

NTP	
NTP	
Synchronization Interval 60 NTP Server	min(s)
OK	Cancel

Figure 12-4 NTP Settings

Step 3 Check **NTP** to enable the function.

Step 4 Enter Synchronization Interval.

Step 5 Enter the IP address of NTP server.

Step 6 Click **OK** in NTP settings interface.

Step 7 Click **OK** in network settings interface.

12.4 Configure Advanced Display Settings

Purpose:

You can set the system time, select the CVBS output standard, enable the password, configure the DST settings, etc.

Step 1 Go to Menu > Other Settings > Display.

Step 2 Click Set of Advanced Settings.

Display Settings				
Device Name	mobileDVR			
Device No.	255			
CVBS Brightness				
Menu Transparency	Non-Transparent			
Operation Timeout	5 Minutes			
Enable Touchscreen				
	OK Cancel			

Figure 12-5 Advanced Settings

Step 3 Edit parameters as required.

• **Device Name**: Enter the system name as desired.

• **Device No.**: Edit the device No. for remote control. The device No. ranges from 1 to 255. The default device No. is 255.

It is not recommended to modify **Device No.** Otherwise, you need to enter the Device No. on the remote control every time you use it.

- **CVBS Brightness**: Adjust video output brightness.
- Menu Transparency: The transparency proportion of the menu displayed on the live view interface. You can set it as 1:3, 1:1, 3:1, or Non-transparent. The smaller the proportion value is, the more transparent the menu is. When Non-transparent is selected, only the menu is displayed on the page.
- **Operation Timeout**: If no operation is performed after a specified period of time, live view will be displayed automatically.
- Enable Touch Screen: Enable/disable touch screen. If the function is on, PTZ function is unavailable.

Step 4 Click OK.

Chapter 13 Maintenance

13.1 Check Status

Go to **Menu > Status** to view status of recording, 3G/4G, platform, satellite positioning, G-Sensor, alarm, and WiFi.

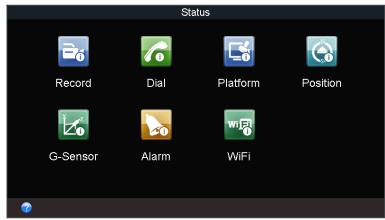


Figure 13-1 Status Interface

13.2 View System Information

Go to **Menu > Maintenance > Information** to view the device name, model, serial No., firmware version, encoding version, and panel version.

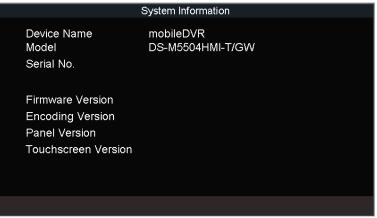


Figure 13-2 System Information

13.3 Upgrade the System

Purpose:

The device can be upgraded by local USB flash disk or remote FTP server.

13.3.1 Upgrade by Local USB Flash Disk

Before you start:

Connect the USB device that contains the upgrade firmware.

The upgrade firmware should be stored in the root directory of the USB device.

Step 1 Go to Menu > Maintenance > Upgrade.

Step 2 Select Upgrade Type as USB Upgrade.

	Upgrade	
Upgrade Type	USB Upgrade	~
Refresh	USB1-1	~
		Upgrade Cancel
		opgrade Gancer

Figure 13-3 Upgrade Interface

Step 3 Click **Upgrade** to start upgrading and reboot the device to activate the new settings.

13.3.2 Upgrade by Remote FTP server

Before you start:

Ensure the network connection of the PC (running FTP server) and the DVR is valid and correct. Run the FTP server on the PC and copy the firmware into the corresponding directory of your PC.

Refer to the user manual of the FTP server to set the FTP server on your PC and put the firmware file into the directory as required.

Step 1 Go to Menu > Maintenance > Upgrade.

	Upgrade	
Upgrade Type	FTP Upgrade	
FTP Server Address		
		Upgrade Cancel

Figure 13-4 Upgrade Interface

Step 2 Select Upgrade Type as FTP Upgrade.

Step 3 Enter FTP Server Address.

Step 4 Click **Upgrade** to start upgrading and reboot the device to activate the new settings.

13.4 Log Operation

13.4.1 View Log Files

Purpose:

The operation, alarm, exception and information of the device can be stored in log files, which can be viewed and exported at any time.

Step 1 Go to Menu > Maintenance > Log Search.

	Log Search
Major Type	All ~
Minor Type	All
Start Time	2017 4 8 25
	<pre>< 0 >: < 0 >: < 0 ></pre>
End Time	
	Search Cancel

Figure 13-5 Log Search Interface

Step 2 Select the Major Type and Minor Type of the logs.

Step 3 Specify the **Start Time** and **End Time** for the log search.

Step 4 Click Search. The matched logs will be displayed.

		Log Sea	irch	
No.	Major Type	Record Time	Minor Type	Parameter
1	Operation	08-25 10:25:34	Power On	N/A
2	Information	08-25 10:25:36	HDD S.M.A.R.T	N/A =
3	T Operation	08-25 10:25:43	Local Operatio	N/A
4	Information	08-25 10:25:45	Local HDD Info	N/A
5	Information	08-25 10:25:49	Start Recording	N/A
6	Information	08-25 10:25:49	Start Recording	N/A
7	Information	08-25 10:25:49	Start Recording	N/A
Page	e:1/2		®∢	>>> 1
		Details	Play Export	Cancel

Figure 13-6 Log Search

13.4.2 Export Log Files

Purpose:

The operation, alarm, exception and information of the device can be stored in log files, which can be viewed and exported at any time.

Before you start:

Connect a backup device to the device.

```
Step 1 Go to Menu > Maintenance > Log Search.
```

	Log Search
Major Type	All
Minor Type	All
Start Time	2017
	<pre>< 0 >: < 0 >: < 0 ></pre>
End Time	2017
	< 23 > : < 59 > : < 59 >
	Search Cancel

Figure 13-7 Log Search Interface

Step 2 Search log files. For detailed steps, refer to 13.4.1 View Log Files.

Step 3 Click Export.

13.5 Restoring Default Settings

Step 1 Go to Menu > Maintenance > Default.

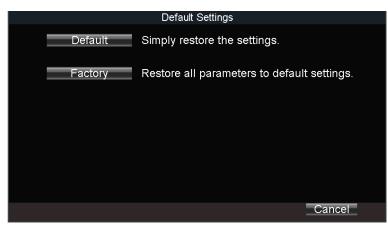


Figure 13-8 Restore Default Settings

Step 2 Select the restoring type from the following two options.

- **Default**: Restore all parameters, except the network (including IP address, subnet mask, gateway, MTU, NIC working mode, default route, server port, etc.) and user account parameters, to the factory default settings.
- **Factory**: Restore all parameters to the factory default settings.

Step 3 Click **OK** and click **Yes** in confirmation message box.

13.6 Import/Export Configuration Files

13.6.1 Import Configuration Files

Purpose:

The configuration files of one device can be imported to multiple device devices if they are to be configured with the same parameters.

Before you start:

Connect a backup device that contains the configuration file to the device. The configuration file should be stored on the root directory of the backup device.

Step 1 Go to Menu > Maintenance > Configuration.

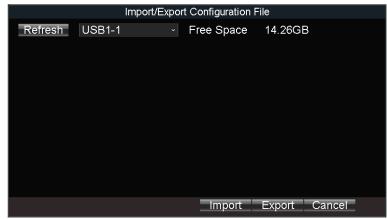


Figure 13-9 Import/Export Configuration Files

Step 2 Click Import and click Yes on confirmation message box.

13.6.2 Export Configuration Files

Purpose:

The configuration files of the device can be exported to local device for backup.

Before you start:

Connect a USB storage device to the mobile video recorder.

Step 1 Go to Menu > Maintenance > Configuration.

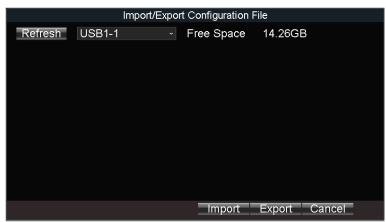


Figure 13-10 Import/Export Configuration Files

Step 2 Click Export.

13.7 Serial Port Settings

Purpose:

Two types of serial ports are provided: RS-232 and RS-485.

The RS-232 port can be used in two ways:

- **Parameters Configuration**: Connect a PC to the DVR through the PC serial port. DVR parameters can be configured by using software such as HyperTerminal. The serial port parameters must be the same as of the device when connecting with the PC serial port.
- **Transparent Channel**: Connect a serial device directly to the device. The serial device will be controlled remotely by the PC through the network and the protocol of the serial device. If alarm button is connected, select RS-232 usage as Transparent Channel.

The RS-485 port can be used for transparent channel only.

Step 1 Go to Menu > Basic Settings > Serial Port.

Se	rial Settings	
Serial Port Type Baudrate Data Bit Stop Bit Parity Flow Control Used As	RS-232-1 115200 8 1 None None Console	2 2 2
	0	K Cancel

Figure 13-11 Serial Port Settings Interface

Step 2 Edit parameters as required.

Step 3 Click OK.

Chapter 14 Shut Down Device

14.1 Enable Scheduled Startup/Shutdown

Purpose:

Set the scheduled startup/shutdown. The device will automatically start up/shut down according the schedule.

Step 1 Go to Menu > Basic Settings > Start.

Step 2 Select Startup/Shutdown Mode as Scheduled Startup/Shutdown.

- Step 3 Select the **Date** to set the schedule.
- Step 4 Specify the startup time segments. Two periods can be configured for each day. And the time periods cannot be overlapped each other.
- Step 5 Optionally, select **Copy Date** and click **Copy** to copy the settings to the selected day.

Step 6 Click OK.

	Start Control	
Startup/Shutdown M	ode Scheduled Start	up/Shu v
Date	Monday	
Time Segment 1		> to < 0 > < 0 >
Time Segment 2	$\langle 0 \rangle \langle 0$	
Copy Date	All	- Copy
[-] =		
		OK Cancel

Figure 14-1 Scheduled Startup/Shutdown

14.2 Enable Halt Delay

Purpose:

You can set the shutdown delay time (Vehicle Ignition Startup and Shutdown) for the device.

Step 1 Go to Menu > Basic Settings > Start.

	Start Control		
Startup/Shutdown Mod	e Halt Delay	v	
Delay Time	5 minutes		
Voltage Protect			
Voltage Limit Percent	90%		
		OK	Cancel

Figure 14-2 Start Control

- Step 2 Select Startup/Shutdown Mode as Halt Delay.
- Step 3 Select the Delay Time. The delay time ranges from 0 to 6 hours.
- Step 4 Optionally, check **Voltage Protect** and select **Voltage Limit Percent**. If the voltage of the device reaches the selected threshold, the device will shut down automatically.

Step 5 Click OK.

14.3 Reboot DVR

Step 1 Go to Menu > Maintenance > Reboot.

Step 2 Click Reboot and click **Yes** on confirmation message box to reboot the device.

	Mainte	nance	
t	a		
Upgrade	Log Search Atter	Default ntion	Configuration
1	Reboot now? Yes	No	
Information	Storage	Reboot	
?			

Figure 14-3 Reboot

Chapter 15 Appendix

15.1 Glossary

- **3G/4G:** 3G/4G refers to the 3rd/4th-generation telecommunication technology which is the high speed transmission of the cell data. The 3G/4G service can transmit sound and other data simultaneously and the bitrate is up to hundreds kbps.
- **DHCP:** DHCP is the acronym of Dynamic Host Configuration Protocol, and it is one of the TCP/IP protocol stacks, it is used to assign the dynamic IP address to the host on the network.
- **Dual Stream:** Dual stream is a technology used to record high resolution video locally while transmitting a lower resolution stream over the network.
- GNSS: A satellite navigation system is a system of satellites that provide autonomous geo-spatial positioning with global coverage. It allows small electronic receivers to determine their location (longitude, latitude, and altitude) to high precision (within a few meters) using time signals transmitted along a line of sight by radio from satellites. The signals also allow the electronic receivers to calculate the current local time to high precision, which allows time synchronization. A satellite navigation system with global coverage may be termed GNSS (Global Navigation Satellite System).
- **GPS:** GPS (Global Positioning System) is a space-based global navigation satellite system that provides location and time information in all weather and anywhere on or near the earth, where there is an unobstructed line of sight to 4 or more GPS satellite.
- **G-Sensor:** G-sensor (Gravity-sensor) can sense the change of the accelerated force, such as the shaking, free falling and lifting. And those changes of the accelerated force can be sensed by the G-sensor in a means of electrical signals, and then link certain action according to the changes of the electrical signals. When applied in the hard disk protection, G-Sensor can check the current status of the hard disk in case of the affection of the R/W function by the sudden change of the accelerated force.
- NTP: NTP is Network Time Protocol, and it is a protocol used to synchronize the computer time.
- Sensor-In: Sensor-In is a built-in module on the mobile video recorder used to record the movement information of the vehicle, such as the braking, left-turning and right-turning and so on. The information can be used for analysis of an accident.
- **Transparent Channel:** Transparent channel is a mechanism which analyzes the IP datagram and sends it by the serial interface. It extends the control distance of the serial devices and for the user, only the point to point transmission is seen and the actual transmission is ignored.
- VPDN: Virtual Private Dial-up Network is a network that uses primarily public telecommunication infrastructure, such as the internet, to provide remote office or travelling users' access to a central organization network, such as the ISP private network, financial network and so on.

• Wi-Fi: Wi-Fi is a mechanism of the wireless connecting electronic devices. A device enabled with Wi-Fi such as PC, video game console, can connect to the internet via a wireless network access point.

15.2 FAQ

• Why does my DVR make a beeping sound after booting?

The possible reasons for the warning beep on the device are as follows:

- a) There is no HDD installed in the device.
- b) The HDD is not initialized.
- c) HDD error

To cancel the beeping sound and use the device without HDD, enter the Exception Settings interface.

• DVR fails to start up after connecting the power.

Possible reasons:

- a) Incorrect voltage input (6 ~ 36 VDC) and power consumption (\geq 50W).
- b) The HDD lock is not closed.
- c) The power connections are incorrect.
- d) The motherboard or power functions abnormally. In case of hardware failure, please contact the supplier of the product.

• Fail to connect 3G/4G.

Possible reasons for 3G/4G connection failure are as follows:

- a) Dialing is not enabled.
- b) APN, dial number, user name and password should be set for 3G/4G VPDN private network.
- c) No 3G/4G antenna connected. When both the master/slave antennas are connected, locate them vertically with above 20cm distance from each other.
- d) SIM card is out of service or 3G/4G service is not opened.

• Fail to connect to Wi-Fi.

Please check the following settings:

- a) The SSID, encryption type or password are entered incorrectly.
- b) AP (access point) or router works abnormally.
- c) No Wi-Fi antenna connected or the antenna is not vertically located.

• The DVR cannot be accessed via platform (iVMS) after successful connection to 3G/4G or

Wi-Fi.

Possible reasons:

- a) The parameters (e.g., server IP, device registered ID, etc.) of the platform are configured incorrectly.
- b) The platform works abnormally.
- Fail to obtain satellite positioning information.

Possible reasons:

- a) The satellite positioning antenna is not placed outdoor.
- b) There is no satellite positioning module (built-in or external) available for the DVR.
- c) The **Position Module** is configured incorrectly.
- Why does the device seem unresponsive when operating with the IR remote control?
 - a) The batteries are installed correctly, making sure that the polarities of the batteries are not reversed.
 - b) The batteries are fresh and are not out of power.
 - c) The remote sensor is not covered or blocked by other object.
 - d) There are no fluorescent lamps in use nearby.

• No backup device is detected when exporting recorded files?

Possible reasons:

- a) There is no backup device connected with the DVR.
- b) The DVR and your backup device are not compatible.
- c) Initialize the backup device before using.
- d) The backup device is damaged.

15.3 Remote Control

Purpose:

The device can be controlled via IR remote control and mouse.

15.3.1 Buttons Description

Before you start:

Batteries (2×AAA) must be installed before operation.

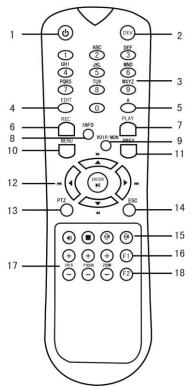


Figure 15-1 Remote Control

Table 15-1 Description of the IR Remote Control Buttons

No.	Name	Description
1	Power	Reserved
2	DEV	Input device number.
3	Number keys	Input number, symbol, and character. Switch to the corresponding channel in Live View mode.
4	Edit	Enter the edit status, and then delete the character in the front of the cursor. It can also be used to <i>tick</i> checkbox. In Playback mode, it can be used to generate video clips for backup.
5	А	Switch between input methods (Number, English, symbol) when in the edit status.
6	REC	Reserved
7	PLAY	Enter video search interface.
8	INFO	Reserved

9	VOIP/MON	Reserved
10	MENU	Enter Main menu interface.
11	PREV	Switch between single screen and multi-screen mode.
12	DIRECTION Buttons	Up, Down, Left, Right The DIRECTION buttons are used to navigate between different fields and items in menus. In the playback interface, they are used for fast forward, slow forward, rewind. In Live View mode, these buttons can be used to switch channel(s).
12	ENTER	The ENTER button is used to confirm selection in any of the menu modes. It can also be used to <i>tick</i> checkbox. In Playback mode, it can be used to play or pause the video. In Auto-switch mode, it can be used to stop /start auto switch.
13	PTZ	Reserved
14	ESC	Back to the previous menu.
15	RESERVED	Reserved for future use.
16	F1	In video search interface, it can be used to select all record files.
17	PTZ Control Buttons	Buttons to adjust the iris, focus and zoom of a PTZ camera.
18	F2	Reserved

15.3.2 Operation Introduction

Purpose:

In this chapter we will describe the operation via IR remote control about general steps in the following chapters.

Before you start:

- Batteries are installed correctly and the polarities of the batteries are not reversed.
- Batteries are fresh and not out of charge.

• IR receiver is not obstructed.

Step 1 Go to Menu > Other Settings > Display.

Step 2 Click Set of Advanced Settings.

Step 3 Edit device number. The default number is 255.

Step 4 Press DEV on the remote control.

Step 5 Enter the device number.

Step 6 Press ENTER on the remote control.

Step 7 Refer to Table 15-2 for detailed operations.

Operation	Detailed Steps
Enter some contents in a text field.	Press Left/Right to position the cursor in the text field. Press Enter to edit.
	Press Edit to delete the previous content.
	Press A to switch input method.
	Press the numeric buttons to enter numbers, symbols, or characters.
	Press Enter to finish entering.
Click a button.	Press Left/Right to position the cursor in the checkbox.
	Press Enter to click the button.
Check the checkbox of a button.	Press Left/Right to position the cursor in the checkbox.
	Press Enter/Edit to check the checkbox.
Select an item from an option	Press Left/Right to position the cursor in the option.
dropdown list.	Press Enter to pop up dropdown list.
	Press Up/Down to select an item.
	Press Enter to select it.

|--|

15.3.3 Troubleshooting

Purpose:

If there is no response after you press any button on the remote, follow the procedure below to troubleshoot.

- Step 1 Go to Menu > Other Settings > Display
- Step 2 Click Set of Advanced Settings.
- Step 3 Edit device number. The default number is 255.
- Step 4 Press **DEV** on the remote control.
- Step 5 Enter the device number.
- Step 6 Press ENTER on the remote control.

15.3.4 Set Areas with Remote Control

Step 1 Click the Area Settings button.

Step 2 Press the Edit key on the remote control and a red block appears on the screen.

Step 3 Press the **Direction** keys on the remote control to adjust the position of the red block.

Step 4 Press the **Enter** key on the remote control to save the position of the red block.

Step 5 Press the **Direction** keys on the remote control to adjust the size of the block.

Step 6 Press the **Enter** key on the remote control to save the size of the block.

Step 7 Press the **Menu** key on the remote control to set the detection sensitivity. You can set the level as 1~6 or off. Click **OK** to save the settings.

Step 8 You can press the **A** key on the remote control to clear all the mask areas.

Press the Enter key on the remote control to save the settings and then press Esc key to exit.



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