

# Smart Player

## User's Manual

**V1.2.0**

# Cybersecurity Recommendations

## **Mandatory actions to be taken towards cybersecurity**

### **1. Change Passwords and Use Strong Passwords:**

The number one reason systems get "hacked" is due to having weak or default passwords. It is recommended to change default passwords immediately and choose a strong password whenever possible. A strong password should be made up of at least 8 characters and a combination of special characters, numbers, and upper and lower case letters.

### **2. Update Firmware**

As is standard procedure in the tech-industry, we recommend keeping NVR, DVR, and IP camera firmware up-to-date to ensure the system is current with the latest security patches and fixes.

## **"Nice to have" recommendations to improve your network security**

### **1. Change Passwords Regularly**

Regularly change the credentials to your devices to help ensure that only authorized users are able to access the system.

### **2. Change Default HTTP and TCP Ports:**

- Change default HTTP and TCP ports for systems. These are the two ports used to communicate and to view video feeds remotely.
- These ports can be changed to any set of numbers between 1025-65535. Avoiding the default ports reduces the risk of outsiders being able to guess which ports you are using.

### **3. Enable HTTPS/SSL:**

Set up an SSL Certificate to enable HTTPS. This will encrypt all communication between your devices and recorder.

### **4. Enable IP Filter:**

Enabling your IP filter will prevent everyone, except those with specified IP addresses, from accessing the system.

### **5. Change ONVIF Password:**

On older IP Camera firmware, the ONVIF password does not change when you change the system's credentials. You will need to either update the camera's firmware to the latest revision or manually change the ONVIF password.

### **6. Forward Only Ports You Need:**

- Only forward the HTTP and TCP ports that you need to use. Do not forward a huge range of numbers to the device. Do not DMZ the device's IP address.
- You do not need to forward any ports for individual cameras if they are all connected to a recorder on site; just the NVR is needed.

### **7. Disable Auto-Login on SmartPSS:**

Those using SmartPSS to view their system and on a computer that is used by multiple people should disable auto-login. This adds a layer of security to prevent users without the appropriate credentials from accessing the system.

### **8. Use a Different Username and Password for SmartPSS:**

In the event that your social media, bank, email, etc. account is compromised, you would not want

someone collecting those passwords and trying them out on your video surveillance system. Using a different username and password for your security system will make it more difficult for someone to guess their way into your system.

#### **9. Limit Features of Guest Accounts:**

If your system is set up for multiple users, ensure that each user only has rights to features and functions they need to use to perform their job.

#### **10. UPnP:**

- UPnP will automatically try to forward ports in your router or modem. Normally this would be a good thing. However, if your system automatically forwards the ports and you leave the credentials defaulted, you may end up with unwanted visitors.
- If you manually forwarded the HTTP and TCP ports in your router/modem, this feature should be turned off regardless. Disabling UPnP is recommended when the function is not used in real applications.

#### **11. SNMP:**

Disable SNMP if you are not using it. If you are using SNMP, you should do so only temporarily, for tracing and testing purposes only.

#### **12. Multicast:**

Multicast is used to share video streams between two recorders. Currently there are no known issues involving Multicast, but if you are not using this feature, deactivation can enhance your network security.

#### **13. Check the Log:**

If you suspect that someone has gained unauthorized access to your system, you can check the system log. The system log will show you which IP addresses were used to login to your system and what was accessed.

#### **14. Physically Lock Down the Device:**

Ideally, you want to prevent any unauthorized physical access to your system. The best way to achieve this is to install the recorder in a lockbox, locking server rack, or in a room that is behind a lock and key.

#### **15. Connect IP Cameras to the PoE Ports on the Back of an NVR:**

Cameras connected to the PoE ports on the back of an NVR are isolated from the outside world and cannot be accessed directly.

#### **16. Isolate NVR and IP Camera Network**






The network your NVR and IP camera resides on should not be the same network as your public computer network. This will prevent any visitors or unwanted guests from getting access to the same network the security system needs in order to function properly.

## General

This user's manual (hereinafter referred to be "the Manual") introduces the functions and operations of the Smart Player (hereinafter referred to be "the c").

## Safety Instructions

The following categorized signal words with defined meaning might appear in the Manual.

Signal Words	Meaning
 <b>DANGER</b>	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 <b>CAUTION</b>	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
 <b>TIPS</b>	Provides methods to help you solve a problem or save you time.
 <b>NOTE</b>	Provides additional information as the emphasis and supplement to the text.

## Revision History

No.	Version	Revision Content	Release Time
1	V1.0.0	First release.	March 3, 2017
2	V1.1.0	1. Deleted the <b>Installation Guide</b> chapter. 2. Updated <b>Basic Operations</b> chapter.	December 29, 2017
3	V1.1.1	1. Added "Privacy Protection Notice". 2. Updated "About the Manual".	May 21, 2018
4	V1.2.0	1. Updated "3.1 Configuring System Settings", "3.5.2 Watermark", "3.5.3 Splice." 2. Added "3.2.1 Video Decryption Methods."	September 2019

## Privacy Protection Notice

As the device user or data controller, you might collect personal data of others such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be

in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

## About the Manual

- The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the Manual.
- The Manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper User's Manual, CD-ROM, QR code or our official website. If there is inconsistency between paper User's Manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

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## 1.1 Overview

The Player is an excellent playback software for security industry, and it has a variety of function such as playback, frame check and intelligence trace display.

The Player supports multi-window synchronous playback, asynchronous playback and a variety of view layout. In addition, the Player uses timeline with adjustable display accuracy instead of traditional playback progress bar.

## 1.2 Features

- Play backward frame-by-frame, including single-frame and multiple speeds.
- Multi-window synchronous playback.
- Zoom in a specific area of video and drag the screen.
- Support splice preview and synchronously play the splices to find the desired scene quickly.
- Support intelligent video stream and intelligent trace display.
- Support stream tampering detection.
- Support digital watermark.
- Convert code stream format.
- Check the video properties.
- Support H.265 and SVAC stream.
- Support .avi, .mp4, .flv, .asf, .mov, .dav and .dav\_ format video files.
- Adjust brightness, contrast, saturation and hue for video.
- Support shortcuts key settings.
- Change fast play speed.
- Display multiple video playback progress on timeline.
- Support file list management.
- Support inner split when playing normal video.
- Support fisheye settings when playing fisheye video.
- Support KMS server verifying and encrypting record.

# 2 The Main User Interface

For the main user interface of the Player, see Figure 2-1, and for details, see Table 2-1.

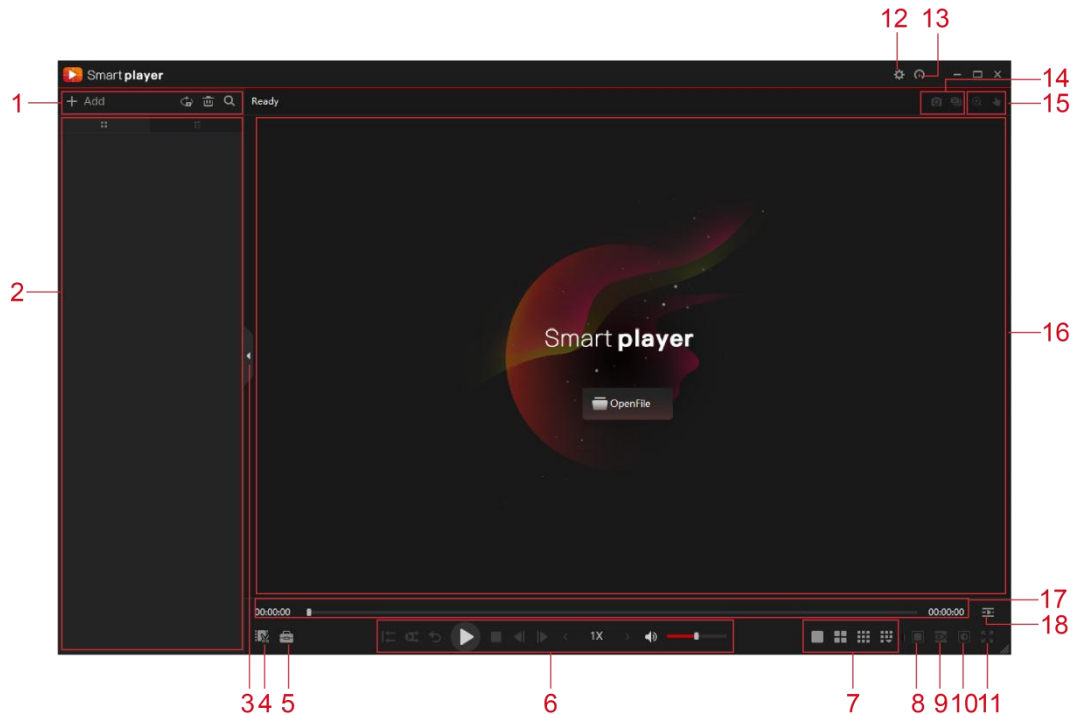


Figure 2-1

No.	Function	Description
1	File List Operation Button	Add, delete and search video files and select the play mode.
2	File List	Display the added files, including <b>Single File List</b> and <b>Tree List</b> .
3	Show File List Button	Hide or display File List Operation Button and File List.
4	Video Clip	Clip the desired part of a video.
5	Tool Box	<ul style="list-style-type: none"> <li>Download: Download video from the external hard disk to PC.</li> <li>Watermark: Check the video information to confirm whether the video has been falsified.</li> <li>Preview: Cut the video into multiple splices and then preview at the same time.</li> </ul>
6	Playback Controls Bar	Control video playback such as play from start, play/pause, backward and volume control.
7	View Layout	Set view layout, including fixed layout and custom layout.
8	Inner Split	Split the video being played in a video window into multiple images.
9	Fish Eye	Set <b>Install Mode</b> and <b>Display Mode</b> for viewing a fisheye video.






No.	Function	Description
10	Display Adjust	Adjust brightness, contrast, saturation and hue for the image
11	Full Screen	Click  to display in full screen.
12	Settings	<ul style="list-style-type: none"> <li>Settings: Configure system settings. For details, see "3.1 Configuring System Settings".</li> <li>Help: Access to the <i>User's Manual</i>.</li> <li>About: View the version information.</li> </ul>
13	CPU	View CPU and RAM information for PC. If the CPU bar is red, which indicates that the processor is running high, it is recommended to close some applications to make sure smooth playing.
14	Snap	<ul style="list-style-type: none"> <li>Snap: Capture one image for video being played.</li> <li>Continuous Snapshot: Capture multiple images according to the set <b>Interval</b>.</li> </ul>
15	Image Control	Enlarge a specific area of the image to view the details. When the image is in the enlarged status, you can drag the image toward any direction to view the other enlarged areas.
16	Video Window	Displays the video being played. You can click <b>Open File</b> to add video file.
17	Timeline	Displays playback time of the selected video window.
18	Timeline Switch	When multi-windows playback, click  to display the playback time of all video on the timeline.

Table 2-1

## 3.1 Configuring System Settings

**Step 1** Click , and then select **Setting**.

The **Setting** interface is displayed. See Figure 3-1.

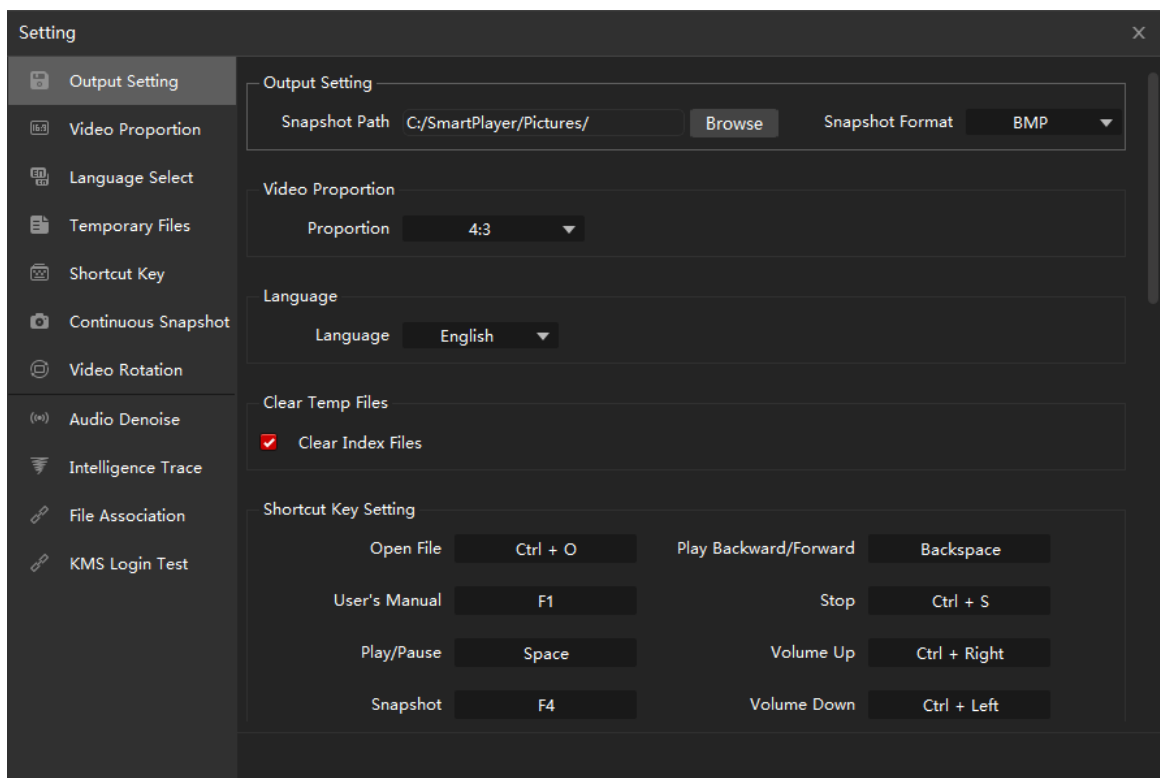


Figure 3-1

**Step 2** Configure the settings. See Table 3-1.

Parameter	Description
Output Setting	Set the picture format and save path for <b>Snap</b> and <b>Continuous Snapshot</b> .
Video Proportion	In the <b>Proportion</b> list, select <b>4:3</b> , <b>16:9</b> , <b>100%</b> or <b>Original Proportion</b> .
Language Select	In the <b>Language</b> list, select the language according to the actual situation.
Temporary Files	Select <b>Clear Index Files</b> to delete temporary files generated during playing video.
Shortcut key	Set shortcut keys according to your habits. For example, to set a shortcut to open file, you can click <b>Open File</b> box, and then enter shortcuts through the keyboard. Click <b>Default</b> to restore the factory settings.


Parameter	Description
Continuous Snapshot	<ul style="list-style-type: none"> <li>Mode: Set <b>Mode</b> to <b>By Time</b> or <b>By Frame</b>.</li> <li>Interval: Set <b>Interval</b> of continuous snapshot. The unit changes according to the <b>Mode</b>.</li> <li>Snapshot Number: Set the picture numbers of each continuous snapshot.</li> </ul>
Video Rotation	Set the rotation angle for all video windows.  <b>NOTE</b> When the playback is paused, the video window cannot rotate.
Audio Denoise	Enable or disable the audio denoise. After enabling the audio denoise, you can select the value. The larger the value is, the better the audio denoise effect but the greater the damage to the sound quality.
Intelligence Trace	Enable or disable the intelligence trace display.
File Association	Associate the Player with the supported video file formats. After the association, when you double-click the type of video file, the video file will be played through the Player by default.
Intelligence Trace	Enable or disable the intelligence trace display.
KMS Login Test	Set the KMS server for record decoding and verification. KMS IP: The IP address of KMS server. KMS port: The port number of KMS. Username: The login username of KMS server. Password: The login password of KMS server.

Table 3-1

## 3.2 Configuring Video File

### 3.2.1 Video Decryption Methods

The Player supports the decryption methods for videos in multiple encryption formats, such as password, KMS private key, and password, KMS + private key.

#### Password Decryption

When you open an encrypted video through the Player, the password dialog box is displayed. See Figure 3-2. Enter the password and the video will be played.

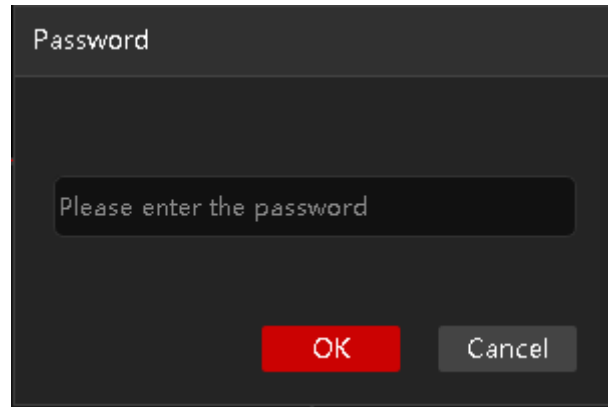



Figure 3-2

## KMS Server Verification

Click , select **Setting > KMS Login Test**, and then set the parameters to open the corresponding video.

For the video of KMS server verification:

- When the Player connects KMS server successfully, the video will be played directly.
- When the Player fails to connect KMS server, the prompt indicating the connection fails is displayed, and the video cannot be played.

## KMS Server + Password Verification

For the video supports KMS server + Password verification:


- When KMS server verification succeeds, you can play the video without password.
- When KMS server verification fails, you will be requested to enter the password, and then you can play video.

### 3.2.2 Adding Video File

Step 1 Add video file by following ways.

- On the video window, click **Open File**.
- On the main user interface, click **Add**.

The **Open** dialog box is displayed. See Figure 3-3.

 **TIPS**

For easy operation, you can drag the video file or folder to the video window.

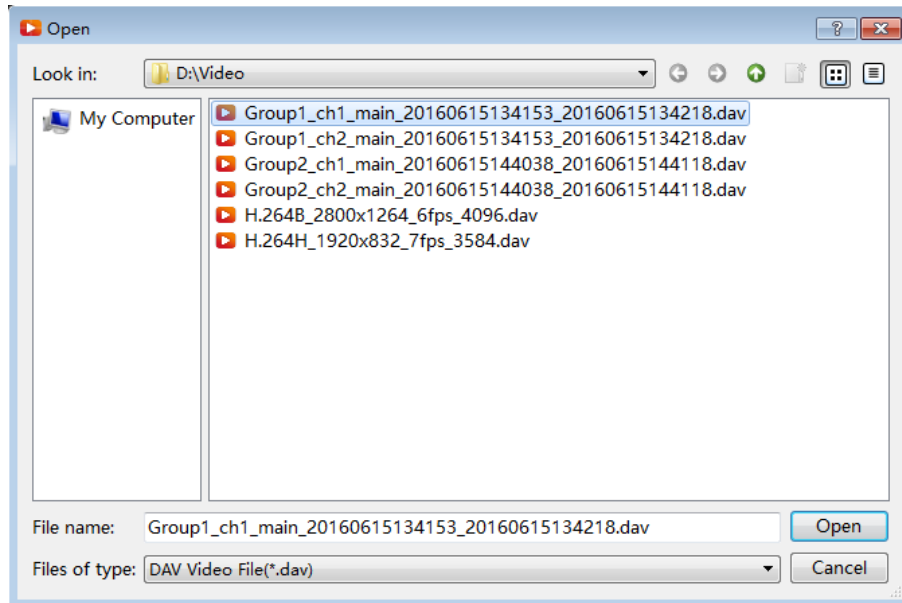


Figure 3-3



#### NOTE

- The Player automatically searches and adds the supported video files in the same level as the selected file.
- If there are multiple video files have the same naming rules (such as "group name\_channel name\_start time\_end time\_other characters.dav"), the Player automatically create a group and adds these video files into the group in the **Tree List**. When playing video, you can double-click the group name to play in groups.

Step 2 Select the video file.

Step 3 Click **Open**.

The video file is displayed in the File List area.

## 3.2.3 Displaying File List

The added video files can be displayed in **Single File List** and **Tree List**.

- Click  to display **Single File List**. See Figure 3-4.

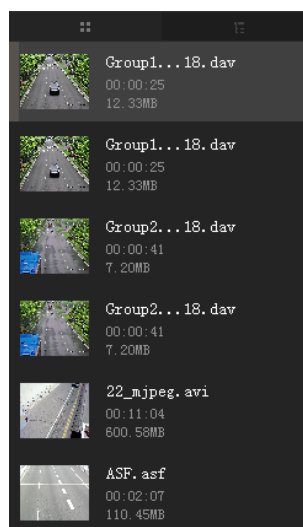



Figure 3-4

- Click  to display **Tree List**. See Figure 3-5.

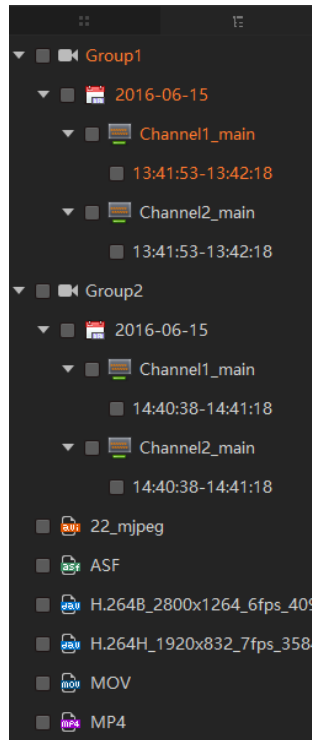



Figure 3-5

## 3.2.4 Searching Video File

- Step 1 Click .

The search box is displayed. See Figure 3-6.

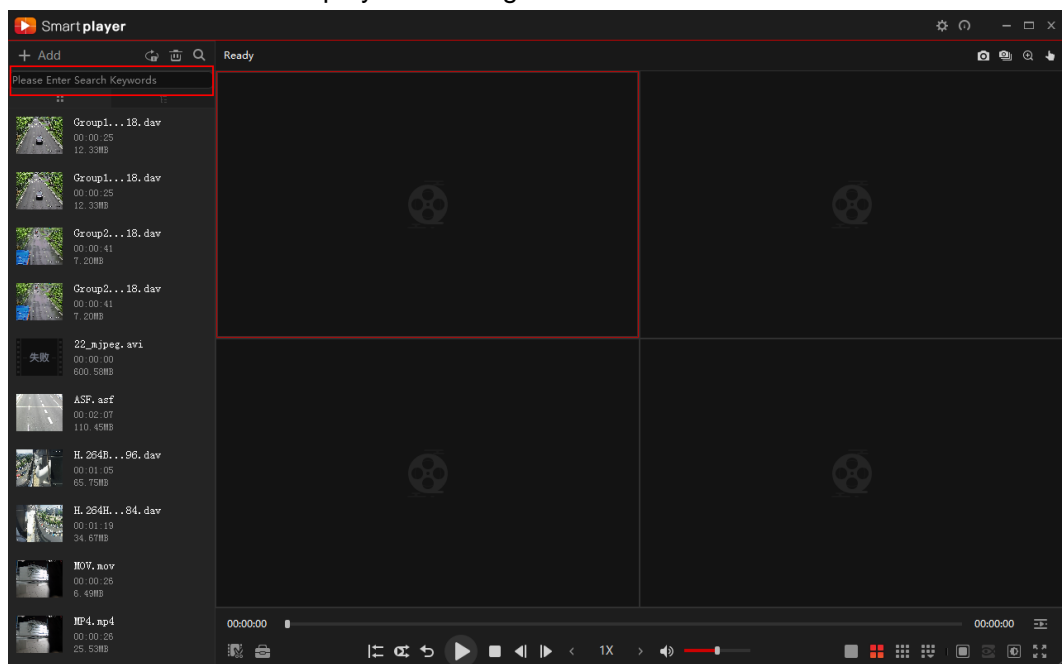


Figure 3-6

- Step 2 Enter the keywords for video file.  
The video file is displayed in the File List area.

## 3.2.5 Playing Video File

**Step 1** Select a video window.

The red box indicates it has been selected, see Figure 3-7.

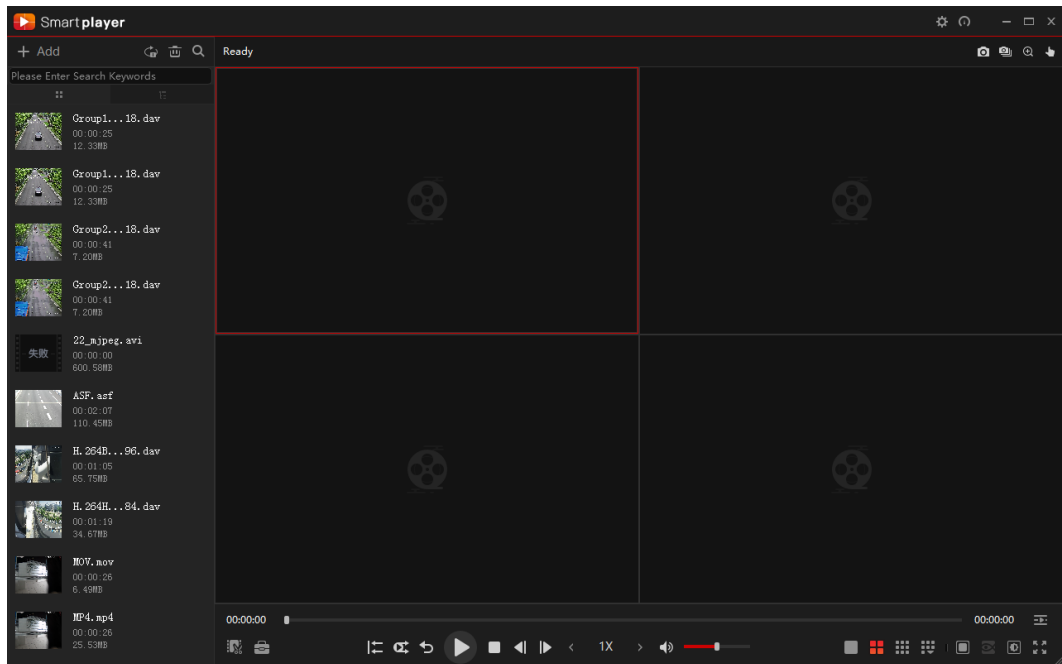


Figure 3-7

**Step 2** In the File List area, double-click the video file.

The video file is playing in the selected window. See Figure 3-8.

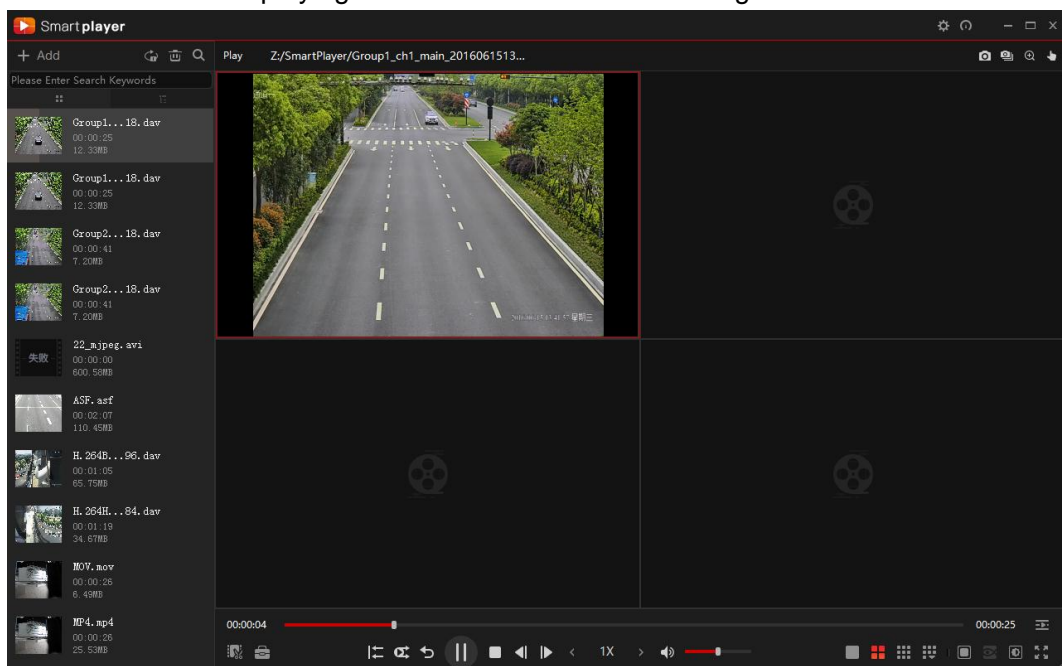








Figure 3-8

### NOTE

- Click  to set the play mode as **Order** and **Repeat One**.
- You can operate the video by playback controls bar. For details, see "3.3.1 Introducing Playback Controls Bar".

## 3.2.6 Deleting Video File

- In the **Single File List**, select the video file, and then click . To clear the file list, click .
- In the **Tree List**, there are two cases.
  - ◇ To delete a group files (selected by default), click .
  - ◇ To delete other files, select the video files that you want to delete and then click .

To clear the file list, select all video files and then click .

### NOTE

If you want to delete the video file that is under operation such as playing, exporting and searching, a **Prompt** dialog box will display.

## 3.3 Video Windows

### 3.3.1 Introducing Playback Controls Bar

For the playback controls bar, see Figure 3-9. For the details description, see Table 3-2.

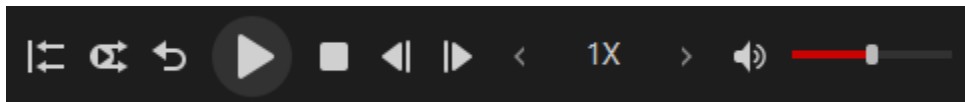
















Figure 3-9

Icon	Description
	Click  to play from start.  NOTE This function applies to all the video windows being played.
 	Click  to switch to synchronous playback, and the icon switches to  . Click  to switch to asynchronous playback. In synchronous playback mode, you can control multiple video windows at the same time.  NOTE Only group playing supports this function.
 	Play Backward. During playing back, click  to backward play the video and the icon switches to  . Click  to stop playing backward.



Icon	Description
	Play or pause video file of the selected video window.
	Click  to close playing of the selected video window.
	<ul style="list-style-type: none"> <li>When the playback is paused, click  or  to play single-frame video.</li> <li>When playing video file, click  or  to switch video file.</li> </ul> <p> NOTE When the group playing, it will switch the entire group. Otherwise, only the selected video window will be switched.</p>
	<p>Set the playback speed.</p> <ul style="list-style-type: none"> <li>Click  to set the speed of slow playback as 1/2x, 1/4x, 1/8x, 1/16x, 1/32x or 1/64x.</li> <li>Click  to set the speed of fast playback as 1x, 2x, 4x, 8x, 16x, 32x or 64x.</li> </ul>
	Adjust volume of playback or click  to switch to mute mode.

Table 3-2

### 3.3.2 Configuring View Layout

For the video layout bar, see Figure 3-10. There are nine fixed common view layouts, and you can customize the view layout according to the actual situation.



Figure 3-10

Click to display the complete video layout bar, see Figure 3-11. You can switch the view layout by clicking the layout icon, see Table 3-3.

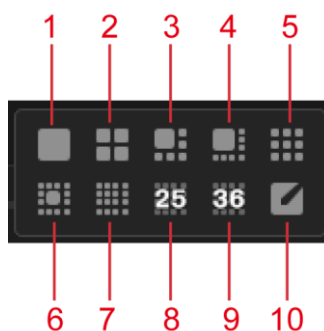


Figure 3-11

No.	Name	No.	Name
-----	------	-----	------

No.	Name	No.	Name
1	View 1	6	View 13
2	View 4	7	View 16
3	View 6	8	View 25
4	View 8	9	View 36
5	View 9	10	Custom Layout

Table 3-3

## Customizing View Layout

**Step 1** Click .

The **Custom Layout** interface is displayed. See Figure 3-12.

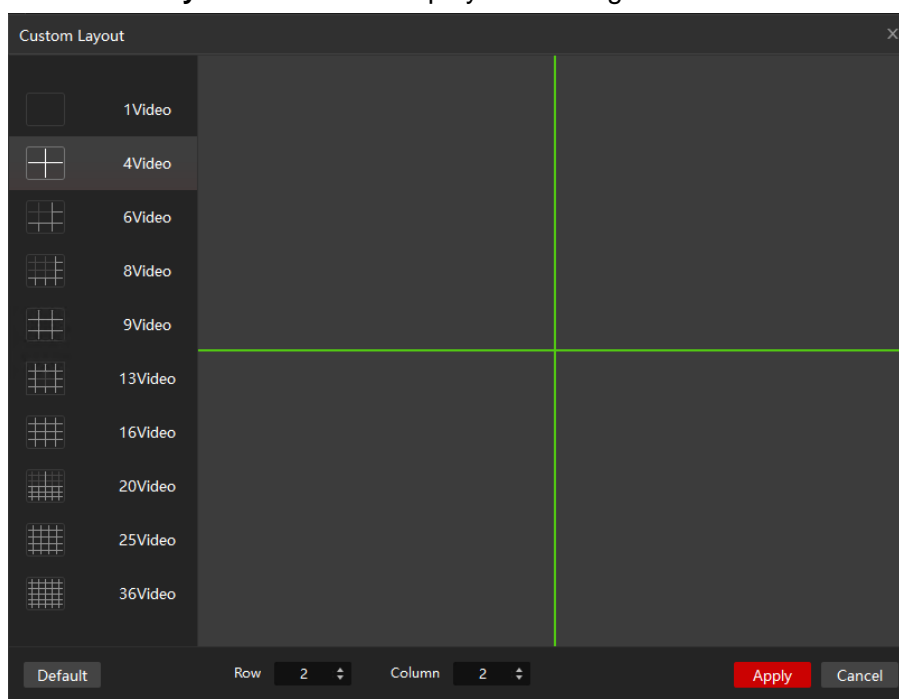


Figure 3-12

**Step 2** Set row and column numbers.

- In the **Row** and **Column** box, select or type a value.
- On the left area, select the view layout, and then click the window split line (the green line as shown in Figure 3-12 to set the number of windows.


**Step 3** Click **Apply**.

The new view layout is displayed.

### 3.3.3 Configuring Inner Split

You can split the video being played in a video window into multiple images.

 **NOTE**




- The function is available only when the video is being played.
- The inner split will apply to all the video windows being played.
- Click  to exit the inner split.

Step 1 Click .


The inner split pattern is displayed. See Figure 3-13.



Figure 3-13

- : Original image.
- : Original image and three independent sub-images. The sub-images and sub-frame in the original image support zoom and move.
- : Original image and five independent sub-images. The sub-images and sub-frame in the original image support zoom and move.

Step 2 Split the video into four images or six images.

For example, click  to split the video into four images, see Figure 3-14.

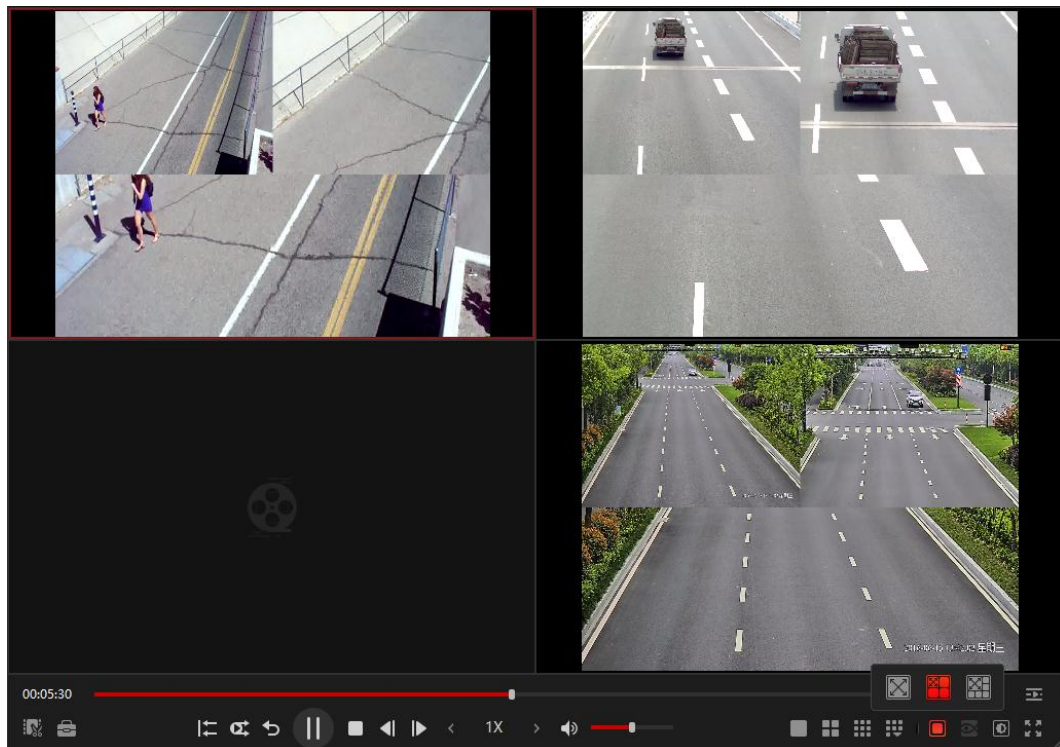


Figure 3-14

### 3.3.4 Configuring Fisheye

#### NOTE

- The function is available only when playing fisheye video.
- The inner split function does not apply to fisheye.

Click  to view the **Install Mode** and **Display Mode** for fisheye, see Figure 3-15. For details, see Table 3-4.



Figure 3-15

Functions	Description	
Install Mode	There are three installation modes: top mounting, wall mounting, and ground mounting.	
Display Mode	<p>Refers to the current image presentation (the original image is supported by default). According to different Install Mode, Display Mode has a different presentation.</p> <ul style="list-style-type: none"> <li>Top mounting: 1P+1, 2P, 1+2, 1+3, 1+4, 1P+6, 1+8.</li> <li>Wall mounting: 1P, 1P+3, 1P+4, 1P+8.</li> <li>Ground mount: 1P+1, 2P, 1+3, 1+4, 1P+6, 1+8.</li> </ul> <p> NOTE</p> <p>When switching the Install Mode, the original image is displayed by default.</p>	
Top mounting/Wall mounting/Ground mount		Original image.
Top mounting/Ground mount		1P+1. 360° panorama image and an independent sub-image. The sub-image and sub-frame in the panorama image support zoom and move. And the panorama image also supports moving from left to right side.
		2P. Two associated 180° sub-images that make up a 360° panorama image at any time. The sub-images support moving from left to right side and interrelate to each other.
		1+2. Original image and two independent sub-images. The sub-images and sub-frame in the original image support zoom and move. And the original image also supports rotation to change the initiation point (Ground mount does not support).
		1+3. Original image and three independent sub-images. The sub-images and sub-frame in the original image support zoom and move. And the original image also supports rotation to change the initiation point.








Functions	Description	
		1+4. Original image and four independent sub-images. The sub-images and sub-frame in the original image support zoom and move. And the original image also supports rotation to change the initiation point.
		1P+6. 360° panorama image and six independent sub-images. The sub-images and sub-frame in the panorama image support zoom and move. And the panorama image also supports moving from left to right side.
		1+8. Original image and eight independent sub-images. The sub-images and sub-frame in the original image support zoom and move. And the original image also supports rotation to change the initiation point.
Wall mounting		1P. 180° panorama image that supports moving upward and downward to change the vertical viewing angle.
		1P+3. 180° panorama image and three independent sub-images. The sub-images and sub-frame in the panorama image support zoom and move. And the panorama image also supports moving upward and downward to change the vertical viewing angle.
		1P+4. 180° panorama image and four independent sub-images. The sub-images and sub-frame in the panorama image support zoom and move. And the panorama image also supports moving upward and downward to change the vertical viewing angle.
		1P+8. 180° panorama image and eight independent sub-images. The sub-images and sub-frame in the panorama image support zoom and move. And the panorama image also supports moving upward and downward to change the vertical viewing angle.

Table 3-4


### 3.3.5 Adjusting Image Settings

You can adjust brightness, contrast, saturation and hue for the image.



NOTE

The image settings will apply to all the video windows being played.

Step 1 Click .

The image settings interface is displayed. See Figure 3-16.

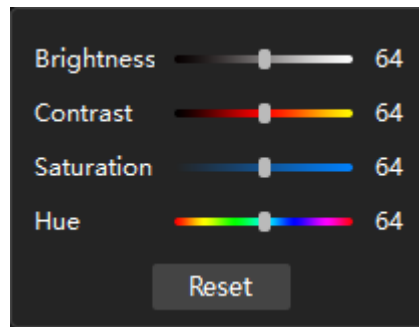


Figure 3-16

Step 2 Drag the bar to adjust the image settings according to the actual situation.

 NOTE

Click **Reset** to restore the factory settings.

### 3.3.6 Switching Timeline

The timeline automatically shows the time of the video file being played.

The Player displays the timeline of the selected video window by default, see Figure 3-17.

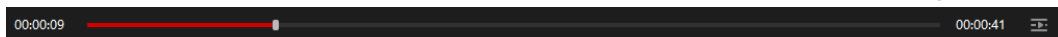



Figure 3-17

Step 1 Click .

The entire timeline is displayed. See Figure 3-18.

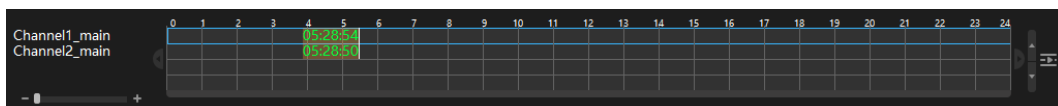


Figure 3-18

If playing the video in groups, only one time line is displayed. See Figure 3-19.

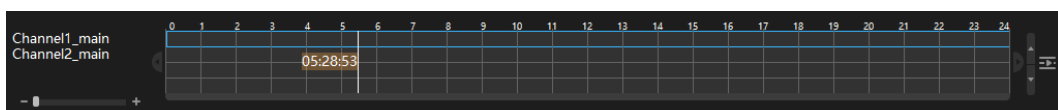




Figure 3-19

Step 2 Click the timeline to switch the focus video window.

The selected timeline displays in blue box.

 NOTE

- If playing multiple video at the same time, the selected timeline will display in blue box after switching the focus video window.
- Click  to switch to next day and click  to switch to previous day. When there is a cross-day video file, the triangle in the button becomes red.

### 3.3.7 Zooming in Video

You can enlarge a specific area of the image to view the details.

#### NOTE

- This function does not apply to fisheye video.
- When video window is enlarged to a certain extent, it cannot be enlarged any more. You can right-click on the enlarged image to return the original status.

Step 1 Click .

The icon switches to .

Step 2 Hold down the left mouse button to select the area you want to enlarge.  
The area is enlarged after the left mouse button is released. See Figure 3-20.

#### TIPS

Point to the center that you want to enlarge, and then rotate the wheel button to enlarge the area.

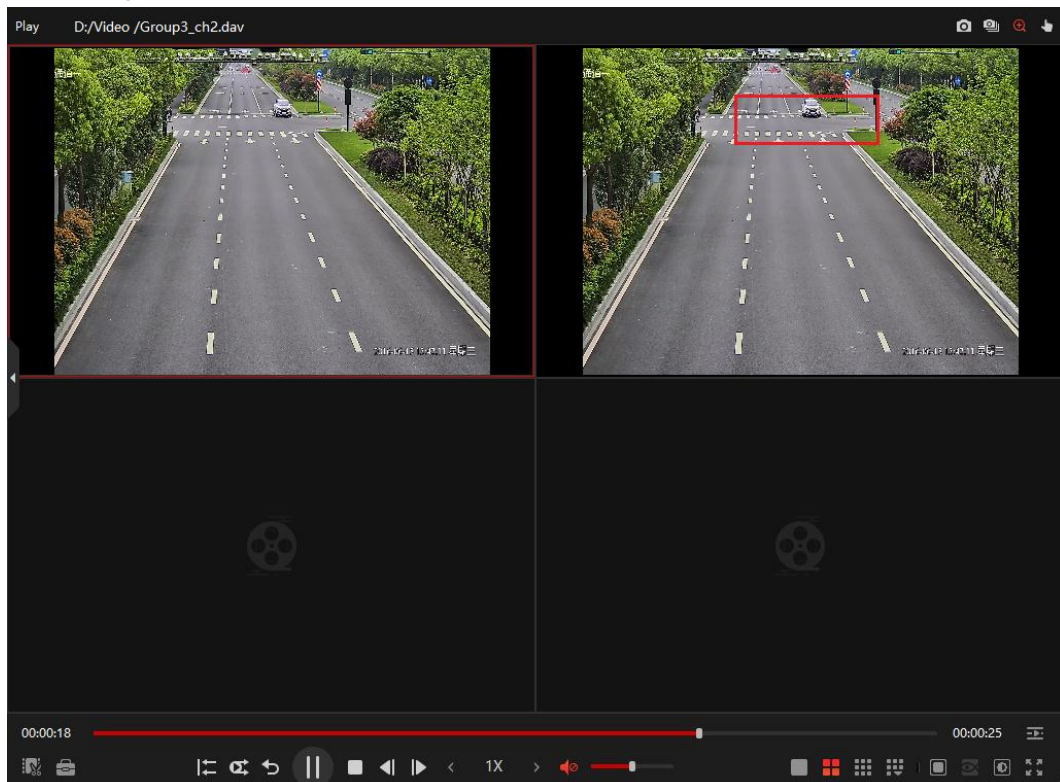


Figure 3-20

### 3.3.8 Dragging Video Window

When the image is in the enlarged status, you can drag the image toward any direction to view the other enlarged areas.

#### NOTE


This function does not apply to fisheye video.

Step 1 Click .

The icon switches to .

Step 2 Point to the video window and then drag the image.

### 3.3.9 Switching to Full Screen



Click  to display in full screen. Full screen is mainly used for video surveillance or long-time video playback.

Press **Esc** or click  to exit full screen mode.

### 3.3.10 Configuring Snap

You can take a snapshot or multiple snapshots for the video file that is being played and view the captured image in the set path.

You can use **Snap** to capture one image at a time and use **Continuous Snapshot** to capture multiple images according to the set **Interval**. For details, see "3.1 Configuring System Settings."

- Snap: Select the video window, and then click .
- Continuous Snapshot: Select the video window, and then click .

## 3.4 Video Clip

You can export the entire video file or the clipped video file.

 **NOTE**

Only the .DAV format video files can be clipped and exported.

Step 1 Select the video file being played, see Figure 3-21.





Figure 3-21

**Step 2** Click .

The **Video Clip** interface is displayed. See Figure 3-22.

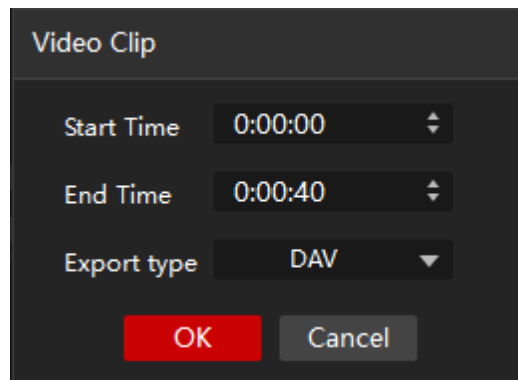


Figure 3-22

**Step 3** Export video file.

- To export the clipped video file, set **Start Time**, **End Time** and **Export type** according to the actual situation.
- To export the entire video file, set **Export type** according to the actual situation.

**Step 4** Click **OK**.

The **Find Directory** dialog box is displayed. See Figure 3-23.

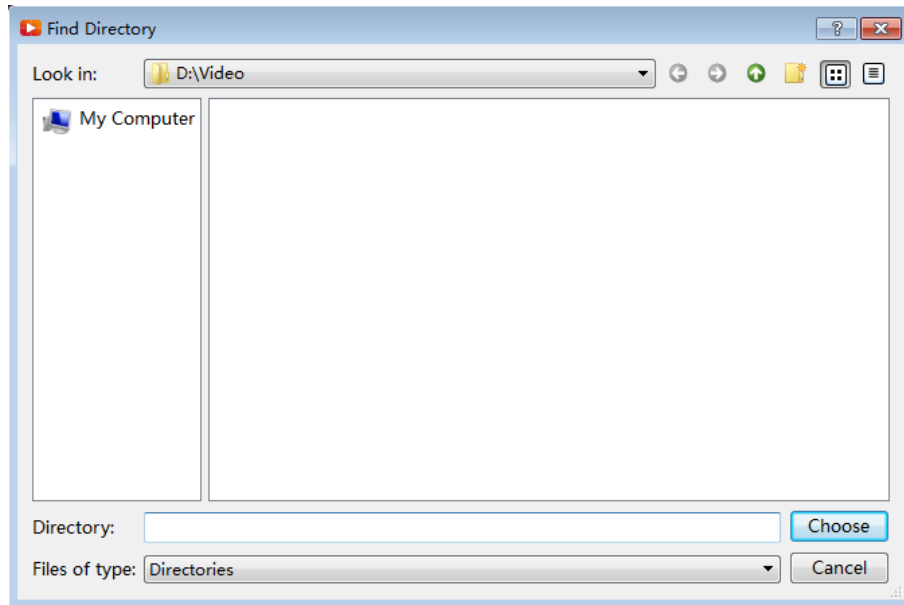


Figure 3-23

Step 5 Select the save path.

Step 6 Click **Choose**.

After the exporting is completed, a message indicating export result is displayed. See Figure 3-24.

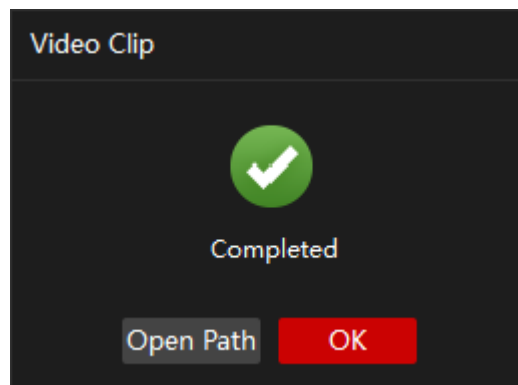


Figure 3-24

Step 7 Click **OK**.

You can click **Open Path** to view the exported video file.

## 3.5 Tool Box


The Tool Box provides more operations about video files. You can download video, check the watermark and preview splices.

### 3.5.1 Download

#### NOTE

In the Windows 10 system, you need to open the Player as an administrator to use the video download function.

You can download video file from the external hard drive to the PC. Before operation, please make sure the external hard drive has connected to the PC.

Step 1 Click .

The **Tool Box** interface is displayed. See Figure 3-25.

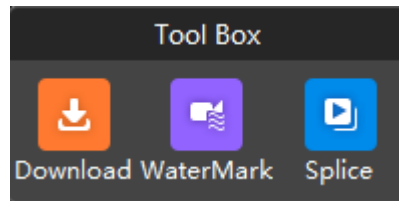


Figure 3-25

Step 2 Click **Download**.

The **Download** interface is displayed. See Figure 3-26.

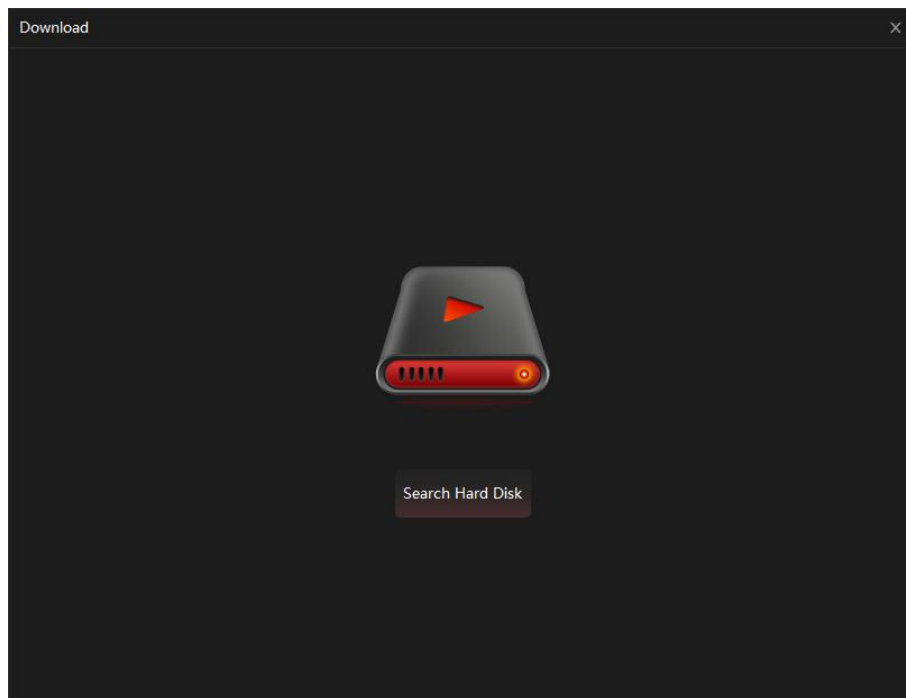


Figure 3-26

Step 3 Click **Search Hard Disk**.

The hard disk search result is displayed and the Hard Disk 0 and its contents are displayed in the list by default. See Figure 3-27.

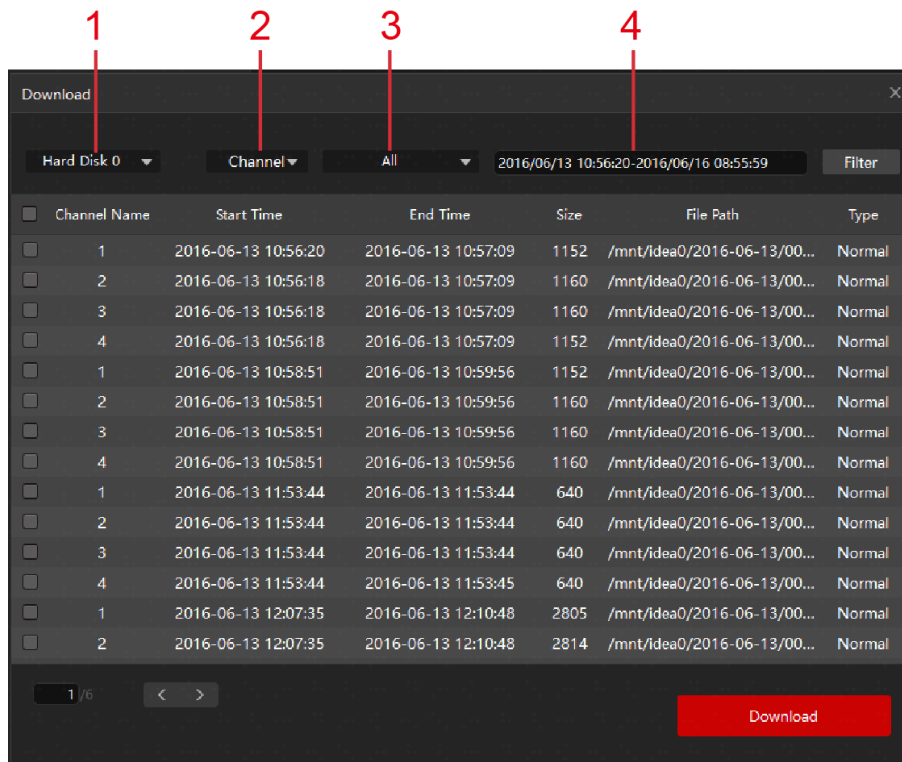


Figure 3-27

**Step 4** Filter the information.

1. Configure the settings. See Table 3-5.



No.	Function	Description
1	Disk	Select external hard drive.  <b>NOTE</b> This parameter determines the options in <b>Channel Name</b> and <b>Video Type</b> list.
2	Channel Name	Select the channel name.
3	Video Type	Select the video type. According to Disk, there are different video type such as <b>All</b> , <b>Normal</b> and <b>Motion</b> .
4	Time	Set the start time and end time of the video.  <b>NOTE</b> When searching video, the start time indicates the time of the first I-frame in the video and the end time indicates the time of the last I-frame.

Table 3-5

2. Click **Filter**.

The filter result is displayed.



**NOTE**

Click **Research** to reset the filter criteria and display the entire contents.

**Step 5** Select one or multiple video files.

**Step 6** Click **Download**.

The **Download** dialog box is displayed. See Figure 3-28.



**NOTE**

During the downloading, if there is an abnormal video, each abnormal video needs to wait about one minute before it can be skipped.

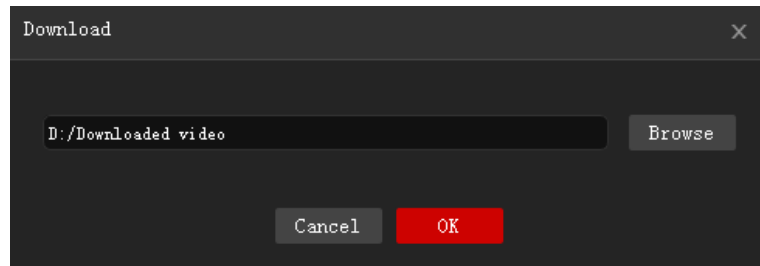


Figure 3-28

Step 7 Click **Browse** to set the save path.

Step 8 Click **OK**.

After the downloading is completed, the **Download** interface is displayed. See Figure 3-29.

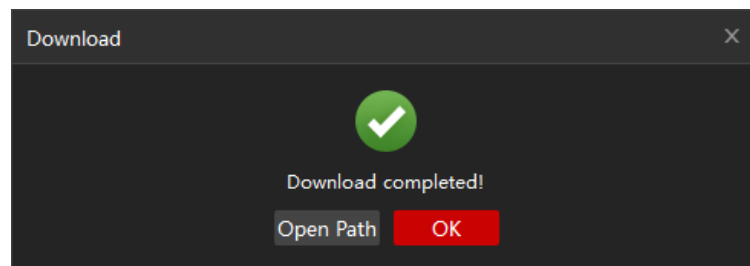


Figure 3-29

Step 9 Click **OK**.

You can click **Open Path** to view the downloaded video file.

## 3.5.2 Watermark

You can check the video file information to confirm whether the video file has been falsified.

- For the video of password decryption type, the Player will prompt a dialog box to request a password. After entering the password, the Player starts to check the watermark.
- For the video of KMS server verification type: When the Player connects KMS server successfully, the Player starts watermark checking directly; when the Player fails to connect KMS server, it will not check the watermark.
- For the video of KMS server + password verification type: When the Player connects KMS server successfully, the Player starts watermark checking directly; when the Player fails to connect KMS server, the prompt a dialog box to request a password. After entering the password, the Player starts to check the watermark.

Step 1 Click .

The **Tool Box** interface is displayed. See Figure 3-30.

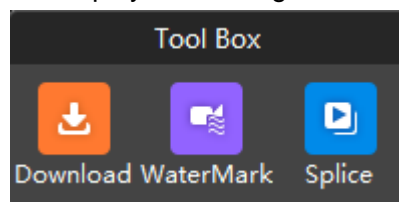


Figure 3-30

Step 2 Click **WaterMark**.

The **WaterMark** interface is displayed. See Figure 3-31.

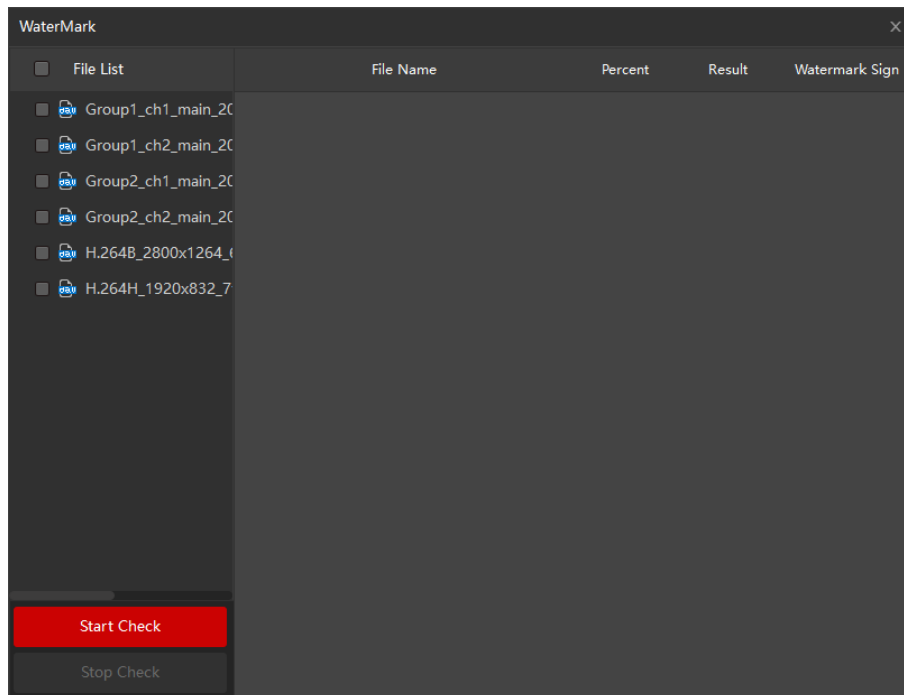


Figure 3-31

**Step 3** In the **File List**, select one or multiple video files.

**Step 4** Click **Start Check**.

After the checking, the result is displayed, see Figure 3-32. If the video file has been falsified, double-click **Falsified** for the details.

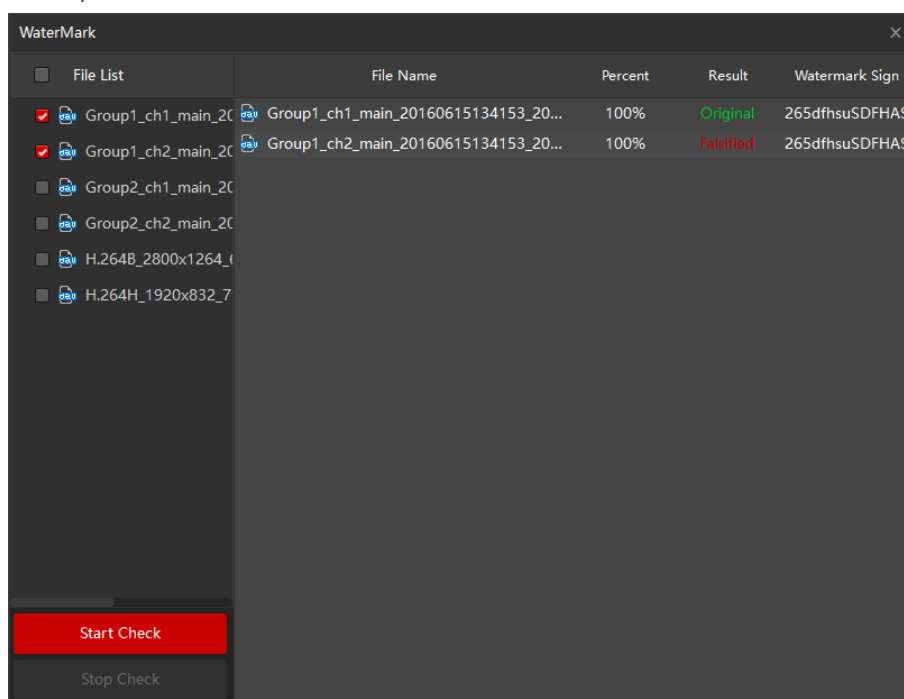


Figure 3-32



#### NOTE

During the checking, you can click **Stop Check** to stop checking the video file.

## 3.5.3 Splice

You can cut the video into multiple splices and then preview at the same time to save your time.

- For the video of password decryption type, the Player will prompt a dialog box to request a

password. After entering the password, you can view the video by sections.

- For the video of KMS server verification type: When the Player connects KMS server successfully, you can view the video by sections directly; when the Player fails to connect KMS server, you can not view the video by sections.
- For the video of KMS server + password verification type: When the Player connects KMS server successfully, you can view the video by sections directly; when the Player fails to connect KMS server, the prompt a dialog box to request a password. After entering the password, you can view the video by sections.

**Step 1** Click .

The **Tool Box** interface is displayed. See Figure 3-33.

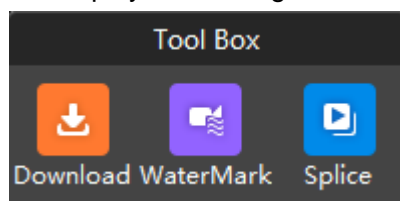


Figure 3-33

**Step 2** Click **Splice**.

The **Splice Preview** interface is displayed. See Figure 3-34.

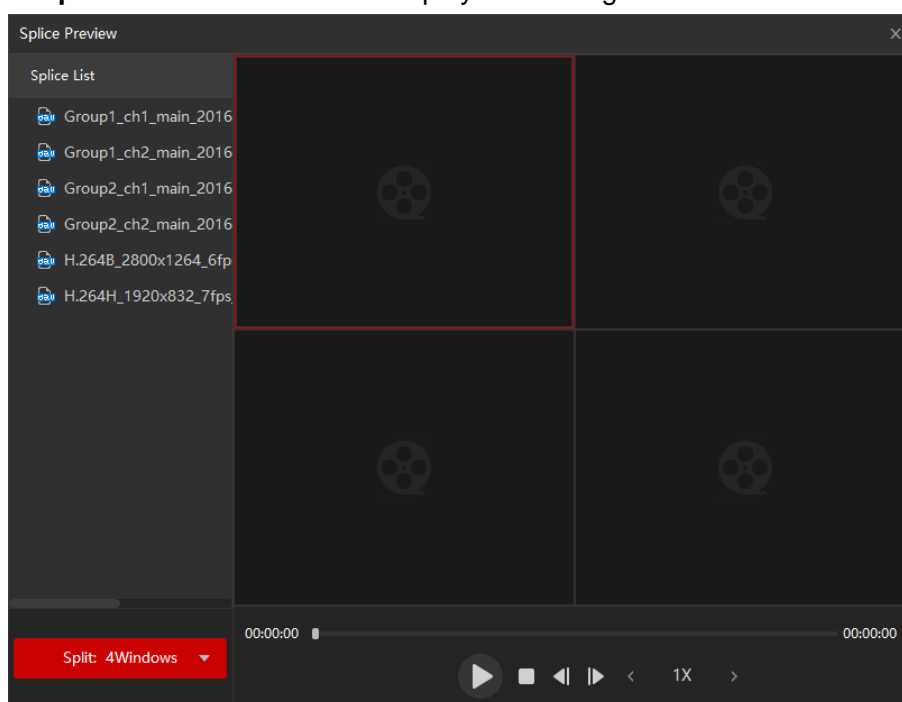


Figure 3-34

**Step 3** In the **Split** list, select the number of splices. For example, select **4** to split into four video windows.

**Step 4** In the **Splice List**, double-click video file.

The video file will be played in the split window and the splice being played in each window will decrease in length. For example, if you split into four windows, the first window plays the entire video, the second window plays three-fourths video, the third window plays two-fourths video, and the forth window plays a quarter video. See Figure 3-35.



Figure 3-35