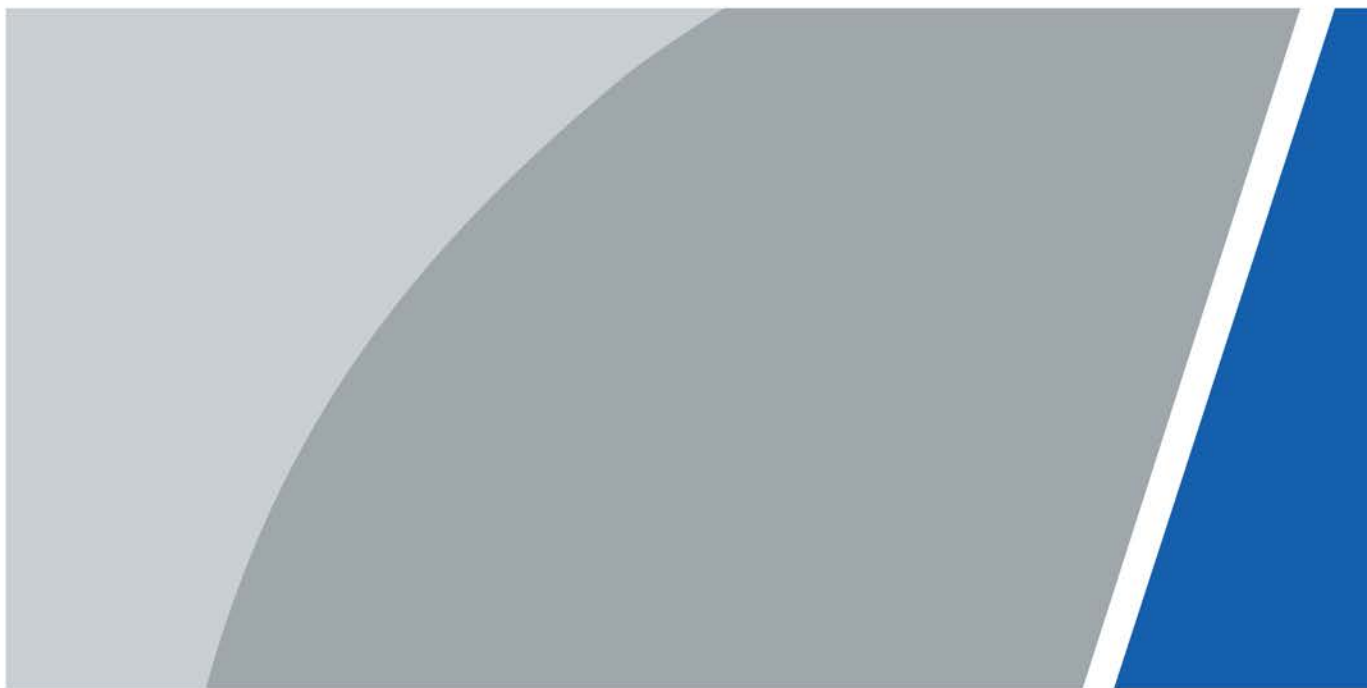


Smart Player

User's Manual








Foreword

General

This manual introduces the functions and operations of the Smart Player (hereinafter referred to as "the Player"). Read carefully before using the platform, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

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

Revision History

Version	Revision Content	Release Time
V1.3.0	<ul style="list-style-type: none">Added external disk function.Added privacy setting, file association user experience program, and map function.Updated tool box function.Updated video clip function.Deleted video download function.	February 2022
V1.2.0	<ul style="list-style-type: none">Updated configuring system settings function, watermark function, splice function.Added video decryption methods function.	September 2019
V1.1.1	<ul style="list-style-type: none">Added privacy protection notice function.Updated overview function.	May 2018
V1.1.0	<ul style="list-style-type: none">Deleted the installation guide chapter.Updated basic operations function.	December 2017
V1.0.0	First release.	March 2017

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Table of Contents

Foreword	I
1 Introduction	1
1.1 Overview	1
1.2 Features	1
2 Home Page	2
3 Basic Operations	7
3.1 Selecting Disk	7
3.2 Searching for Video	8
3.2.1 Filter Searching	8
3.2.2 Position Searching	9
3.3 Configuring System Settings	9
3.4 Configuring Video File	11
3.4.1 Video Decryption Methods	11
3.4.2 Adding Video File	12
3.4.3 Displaying File List	13
3.4.4 Searching Video File	15
3.4.5 Playing Video File	16
3.4.6 Deleting Video File	17
3.5 Video Windows	17
3.5.1 Playback Control Bar	17
3.5.2 Configuring View Layout	18
3.5.3 Customizing View Layout	20
3.5.4 Configuring Inner Split	20
3.5.5 Configuring Fisheye	21
3.5.6 Adjusting Image Settings	25
3.5.7 Switching Timeline	25
3.5.8 Zooming in Video	26
3.5.9 Dragging Video Window	27
3.5.10 Switching to Full Screen	27
3.5.11 Configuring Snap	27
3.6 Video Clip	28
3.7 Tool Box	30
3.7.1 Transcode	30
3.7.2 Watermark	32
3.7.3 Splice	33

3.7.4 Screenshot.....35

3.7.5 Formatte.....36

3.7.6 Map37

1 Introduction

1.1 Overview

The Player is a playback software for security industry, which can connect local disk or external disk. 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.
- Supports splice preview and synchronously play the splices to find the desired scene quickly.
- Supports intelligent video stream and intelligent trace display.
- Supports stream tampering detection.
- Supports digital watermark.
- Convert code stream format.
- View the video properties.
- Supports H.265 and SVAC stream.
- Supports .avi, .mp4, .flv, .asf, .mov, .dav, .dav_, .ps and .ts format video files.
- Adjust brightness, contrast, saturation and hue for video files.
- Supports shortcuts key settings.
- Change play speed.
- Display multiple video playback progress on timeline.
- Supports file list management.
- Supports inner split when playing normal videos.
- Supports fisheye settings when playing fisheye videos.
- Supports KMS server verifying and encrypting record.
- Supports downloading snapshot and video files from external disks to the local computer.
- Supports transcoding video file.
- Supports motion trail analysis and quick positioning.

2 Home Page

After starting the Tool, the main page is displayed. According to different disk types, the home page is divided into local disk page and external page.

Local Disk Home Page

Figure 2-1 Local disk home page

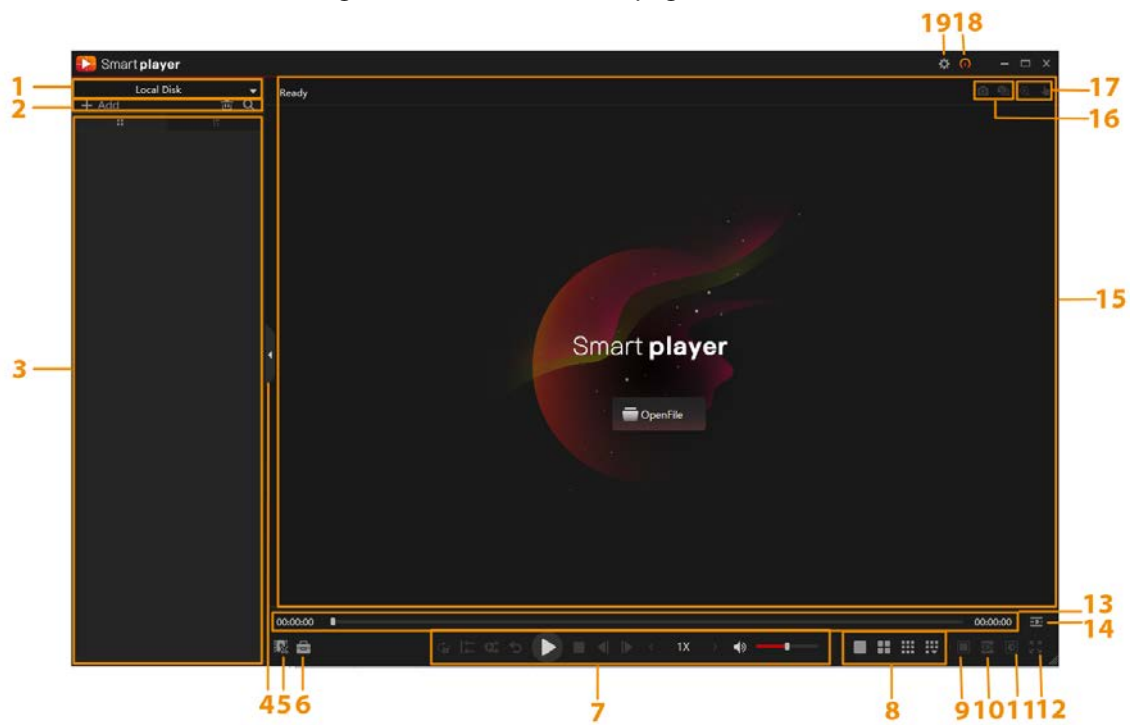




Table 2-1 Local disk home page description

No.	Function	Description
1	Disk Type	You can select local disk or external disk.
2	File List Operation Button	Add, delete and search video files, and select the play mode.
3	File List	Display the added files, including Single File List and Tree List .
4	Show File List Button	Hide or display File List Operation Button and File List .
5	Video Clip	Clip video files.

No.	Function	Description
6	Tool Box	<ul style="list-style-type: none"> • Transcode: Convert the format of the video. • Watermark: Check the video information to confirm whether the video has been falsified. • Preview: Cut the video into multiple splices, and then preview them at the same time. • Screenshot: Download the screenshot of the external disk to the local computer. • Formatte: Format the external disk. • Map: View the movement track and geographical location of the objects in the video with GPS information.
7	Playback Controls Bar	Control video playback, for example, play from start, play/pause, backward and volume control.
8	View Layout	Set view layout, including fixed layout and custom layout.
9	Inner Split	Split the video screen being played in a window into multiple images.
10	Fish Eye	Configure Install Mode and Display Mode to view fisheye video.
11	Display Adjust	Adjust brightness, contrast, saturation and hue of the image
12	Full Screen	Click  to display in full screen.
13	Timeline	Displays play time of the selected video window.
14	Timeline Switch	When viewing multi-windows playback, click  to display the play time of all videos on the timeline.
15	Video Window	Displays the video being played. Click Open File to add video files.
16	Snapshot	<ul style="list-style-type: none"> • Snapshot: Capture one image of the video being played. • Continuous Snapshot: Capture multiple images according to the set Interval.
17	Image Control	Zoom in 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.
18	Settings	<ul style="list-style-type: none"> • Settings: Configure system settings. For details, see "3.3 Configuring System Settings". • Help: Access to the user's manual. • About: View the version information.
19	CPU	View CPU and RAM information of the computer. If the CPU bar is red, it indicates that the processor is running high, it is recommended to close some applications to make sure smooth playing.

External Disk Home Page

Figure 2-2 External disk home page

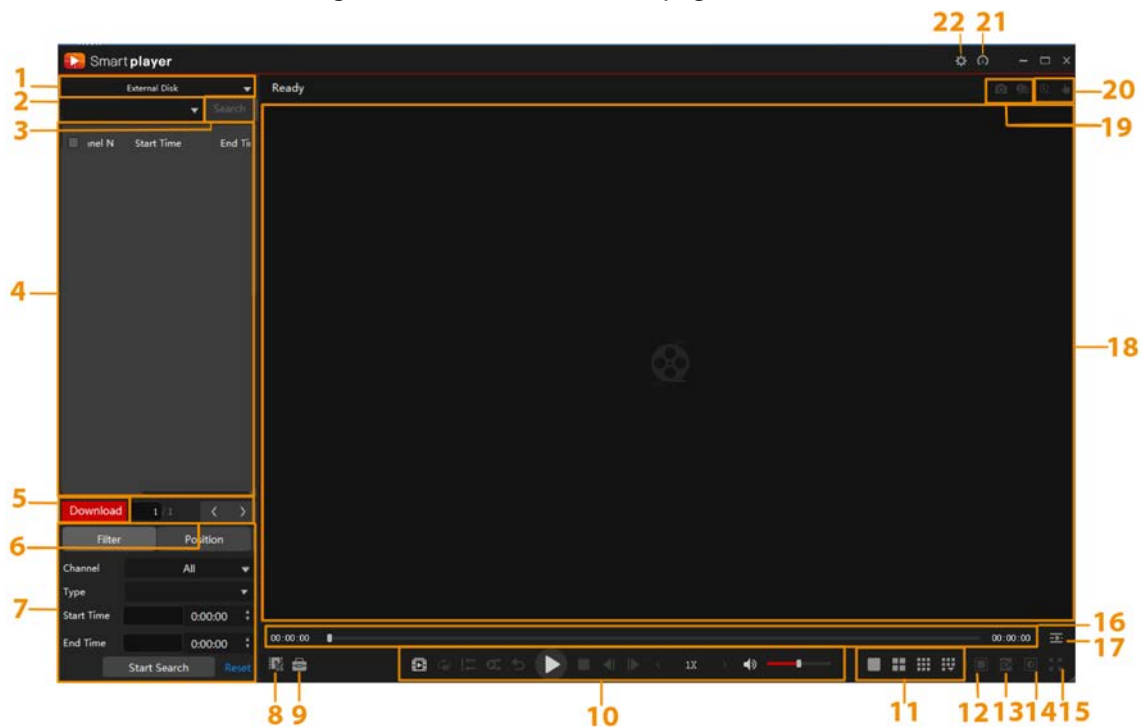






Table 2-2 External disk home page description

No.	Function	Description
1	Disk Type	You can select local disk or external disk.
2	External Disk name	Select the external disk name. If there are multiple external disks, you can select from the drop-down list.
3	File List Operation Button	Search video files.
4	File List	Display the added files, including Channel Name , Start Time and End Time .
5	Download videos	Download video from the external hard disk to local computer.
6	Display video files in pages	Display the video files of the external disk in pages. You can click the left and right arrow keys to turn pages
7	Video search	Search the video through filter or position.
8	Video Clip	Clip video files.

No.	Function	Description
9	Tool Box	<ul style="list-style-type: none"> ● Transcode: Convert the format of the video. ● Watermark: Check the video information to confirm whether the video has been falsified. ● Preview: Cut the video into multiple splices, and then preview them at the same time. ● Screenshot: Download the screenshot of the external disk to the local computer. ● Formatte: Format the external disk. ● Map: View the movement track and geographical location of the objects in the video with GPS information.  <p>The hard disk of the Xfs file system does not support watermark, splice, screenshot and format function.</p>
10	Playback Controls Bar	<p>Control video playback, for example, play group videos, play from the start, play/pause, backward and volume control.</p>  <p>Play group videos is an external disk function. Click Group Play to play group videos, and then the whole group video will be played at the same time.</p>
11	View Layout	Set view layout, including fixed layout and custom layout.
12	Inner Split	Split the video screen being played in a window into multiple images.
13	Fish Eye	Configure Install Mode and Display Mode to view fisheye video.
14	Display Adjust	Adjust brightness, contrast, saturation and hue of the image
15	Full Screen	Click  to display in full screen.
16	Timeline	Displays play time of the selected video window.
17	Timeline Switch	When viewing multi-windows playback, click  to display the play time of all videos on the timeline.
18	Video Window	Displays the video being played. Click Open File to add video files.
19	Snapshot	<ul style="list-style-type: none"> ● Snapshot: Capture one image of the video being played. ● Continuous Snapshot: Capture multiple images according to the set Interval.
20	Image Control	<p>Zoom in a specific area of the image to view the details.</p> <p>When the image is in the enlarged status, you can drag the image toward any direction to view the other enlarged areas.</p>

No.	Function	Description
21	Settings	<ul style="list-style-type: none"> • Settings: Configure system settings. For details, see "3.3 Configuring System Settings". • Help: Access to the user's manual. • About: View the version information.
22	CPU	<p>View CPU and RAM information of the computer.</p> <p>If the CPU bar is red, it indicates that the processor is running high, it is recommended to close some applications to make sure smooth playing.</p>

3 Basic Operations

3.1 Selecting Disk

Select the video files in the disk. This section uses external disk as an example.


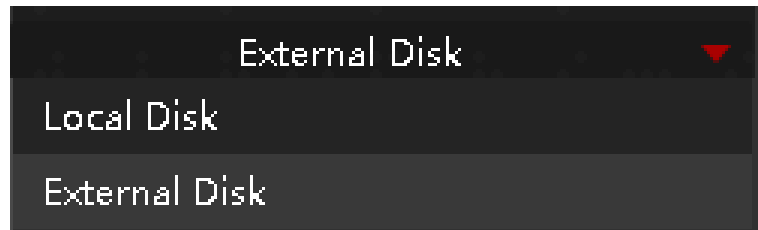
Step 1 Click  in the disk type area, and then select **External Disk**.

Figure 3-1 Select disk type

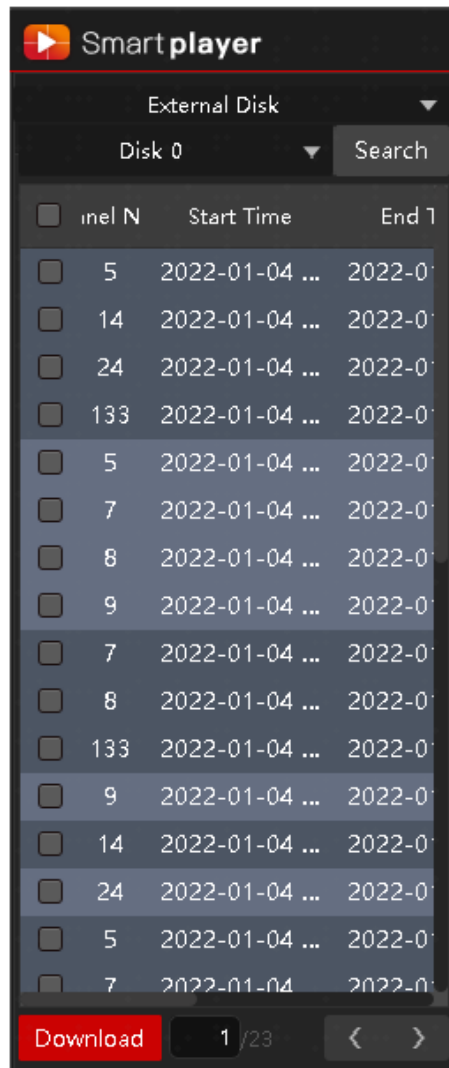


Step 2 After obtaining an external hard disk, click **Search** to search for the video files on the hard disk.



- Video naming rules: Channel Number_Start time_End time. The time naming should be accurate to the second without any punctuation.
- The start time and end time of the channel are displayed according to the video name. If the name is not standard, the channel is displayed as -1, the start time is displayed as the current time, and the end time is displayed as 23:59:59, December 31, 2037.

Figure 3-2 Search files



Step 3 Double-click the video to open then video.

Step 4 Select the video file, and then click **Download** to download the video from the external disk to the computer.

3.2 Searching for Video

When the device is connected to an external disk, you can search the video through filtering and positioning.

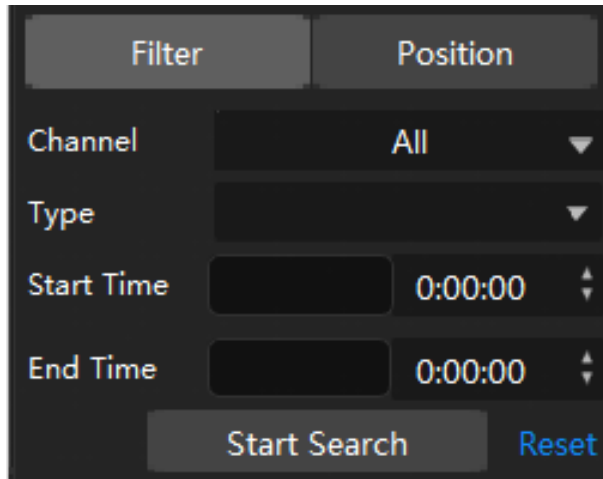
3.2.1 Filter Searching

You can filter the video through channel number, video type and video time.

Step 1 Click **Filter** on the home page.

Step 2 Select channel number and video type, and then configure start time and end time.

Figure 3-3 Filter videos

The screenshot shows a dark-themed interface with two tabs at the top: 'Filter' and 'Position'. Under the 'Filter' tab, there are four rows of controls. The first row is 'Channel' with a dropdown menu showing 'All'. The second row is 'Type' with a dropdown menu. The third row is 'Start Time' with a text input field and a time display '0:00:00' with up/down arrows. The fourth row is 'End Time' with a text input field and a time display '0:00:00' with up/down arrows. At the bottom, there are two buttons: 'Start Search' and 'Reset'.

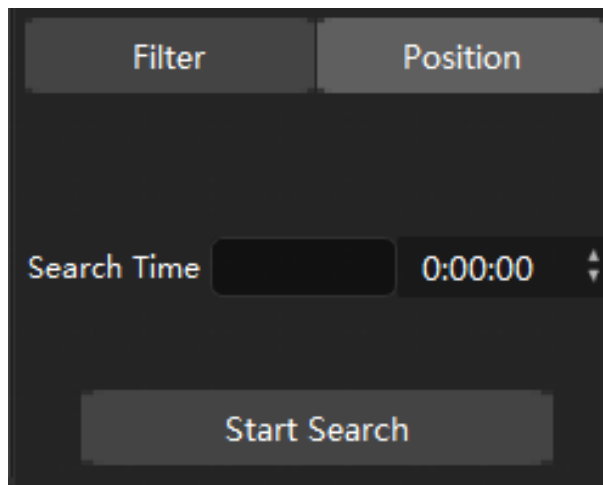
- Step 3 Click **Start Search**, and then a prompt box will pop up indicating that the filter search has been completed. The filtered video files are displayed in the video search area.
Click **Reset** to restore the filter condition to default values.

3.2.2 Position Searching

Search video files according to the selected search time.

- Step 1 Click **Position** on the home page, and then configure the search time.
Step 2 Click **Start Research**, and then the Player displays and plays the searched video.

Figure 3-4 Position searching

The screenshot shows a dark-themed interface with two tabs at the top: 'Filter' and 'Position'. The 'Position' tab is selected. Below the tabs, there is a 'Search Time' label followed by a text input field and a time display '0:00:00' with up/down arrows. At the bottom, there is a 'Start Search' button.

3.3 Configuring System Settings


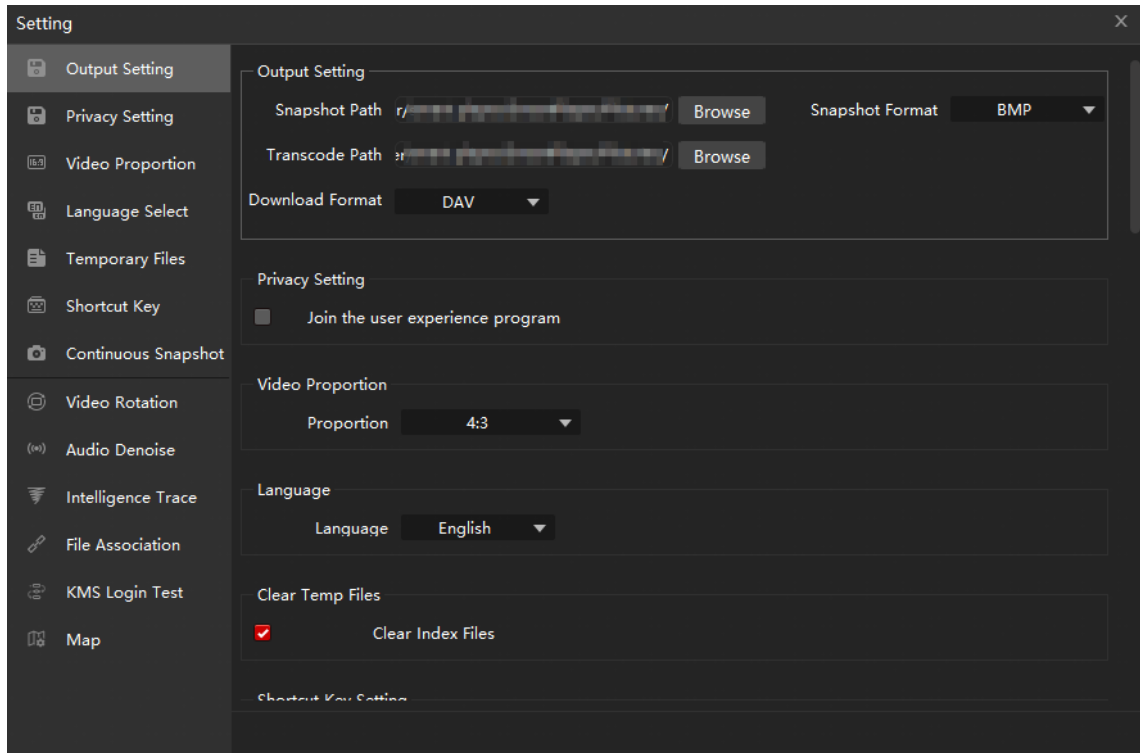


- Step 1 Click  and then select **Setting**.


Figure 3-5 System Setting



Step 2 Configure the setting parameters.

Table 3-1 System setting parameters

Parameter	Description
Output Setting	Select the snapshot path, transcode path, snapshot format and download format.  Only external disk supports video download function.
Privacy Setting	Select to join the user experience program or not.
Video Proportion	In the proportion list, select 4:3 , 16:9 , 100% or Original Proportion .
Language Select	In the language list, select the language according to the actual needs.
Temporary Files	Select Clear Index Files to delete temporary files generated during playing video.
Shortcut key	Set shortcut keys according to your needs. For example, to set a shortcut to open file, you can click Open File box, and then enter shortcuts through the keyboard.  Click Default to restore the factory settings.
Continuous Snapshot	<ul style="list-style-type: none"> Mode: Set Mode to By Time or By Frame. Interval: Set Interval of continuous snapshot. The unit changes according to the Mode. Snapshot Number: Set the picture numbers of each continuous snapshot.

Parameter	Description
Video Rotation	<p>Set the rotation angle for all video windows.</p>  <p>When the playback is paused, the video window cannot rotate.</p>
Audio Denoise	<p>Enable or disable the audio denoise.</p> <p>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.</p>
Intelligence Trace	<p>Enable or disable the intelligence trace display.</p>
File Association	<p>Associate the Player with the supported video file formats.</p> <p>After the association, when you double-click the type of video file, the video file will be played through the Player by default.</p>
KMS Login Test	<p>Set the KMS server for record decoding and verification.</p> <ul style="list-style-type: none"> • 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. • Certificate path: The certificate path of KMS server. • Key path: The key path of KMS server. • CA certificate path: The path of CA certificate.
Map	<p>When viewing videos with GPS information, you need to enable GPS Switch to display the movement track on the map.</p> <ul style="list-style-type: none"> • Map Select: Select the map type from the BaiduMap and GoogleOfflineMap. • Map Path: Click Browse to set the path for offline maps.

3.4 Configuring Video File

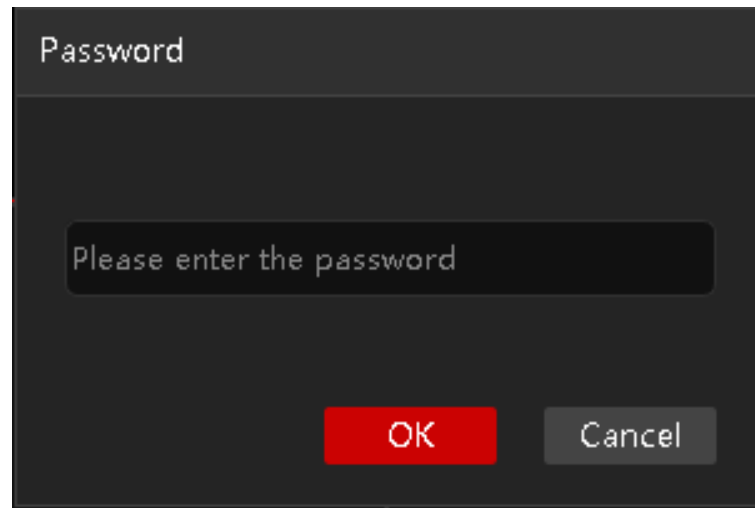
3.4.1 Video Decryption Methods

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

Password Decryption

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

Figure 3-6 Password decryption

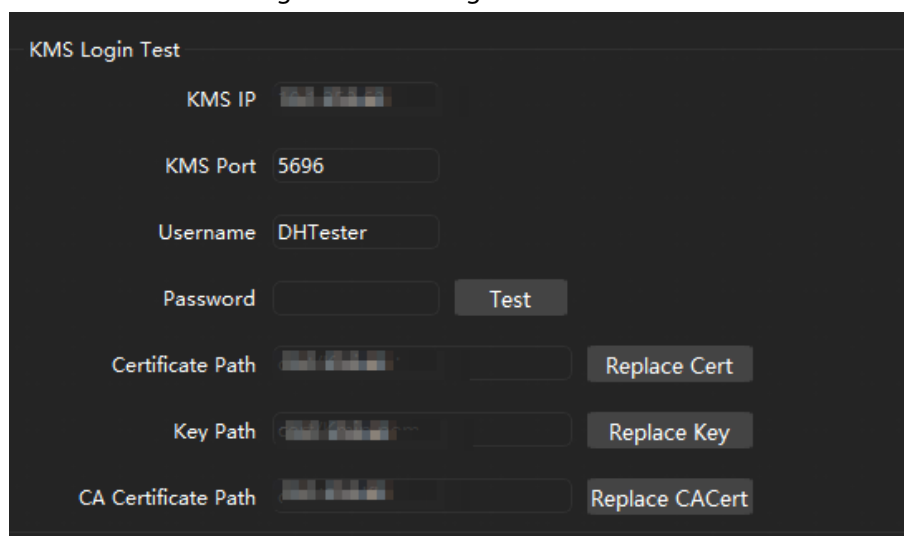


KMS Server Verification

Click  and then select **Setting** > **KMS Login Test**.

Set the parameters to open the corresponding video, and then click **Test**.

Figure 3-7 KMS Login Test



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.

3.4.2 Adding Video File

Step 1 Add video file by following ways.

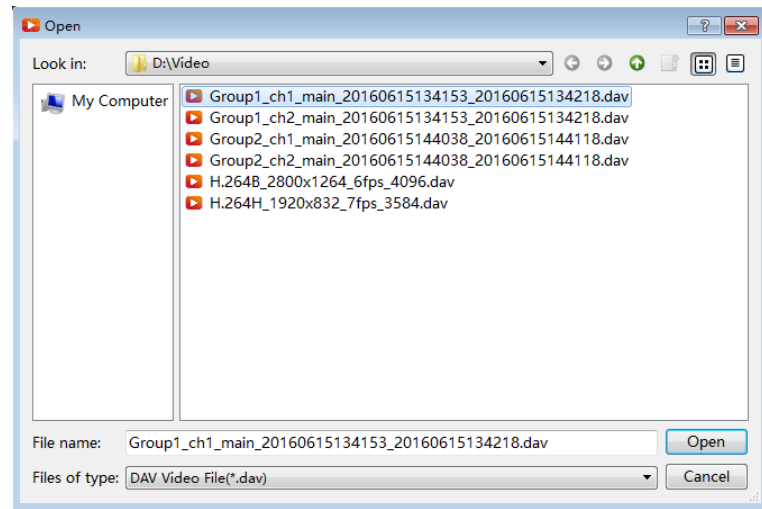
- Click **Open File** on the video window.

- Click **Add** on the main page.



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

Figure 3-8 Add video files



- 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 then 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**.

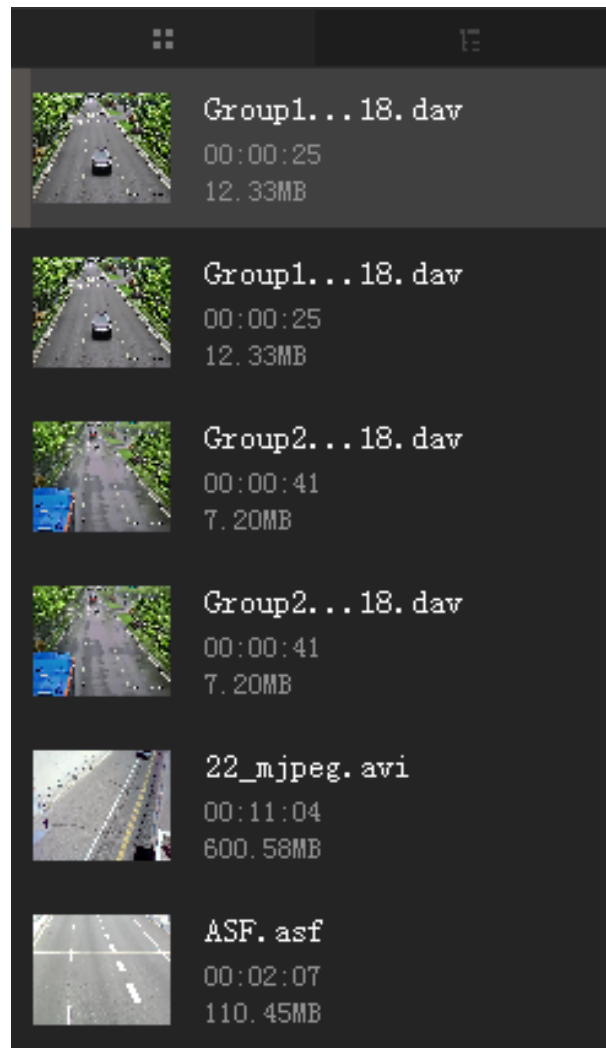
The video file is displayed in the **File List** area.

3.4.3 Displaying File List

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

- Click  to display **Single File List**.

Figure 3-9 File list




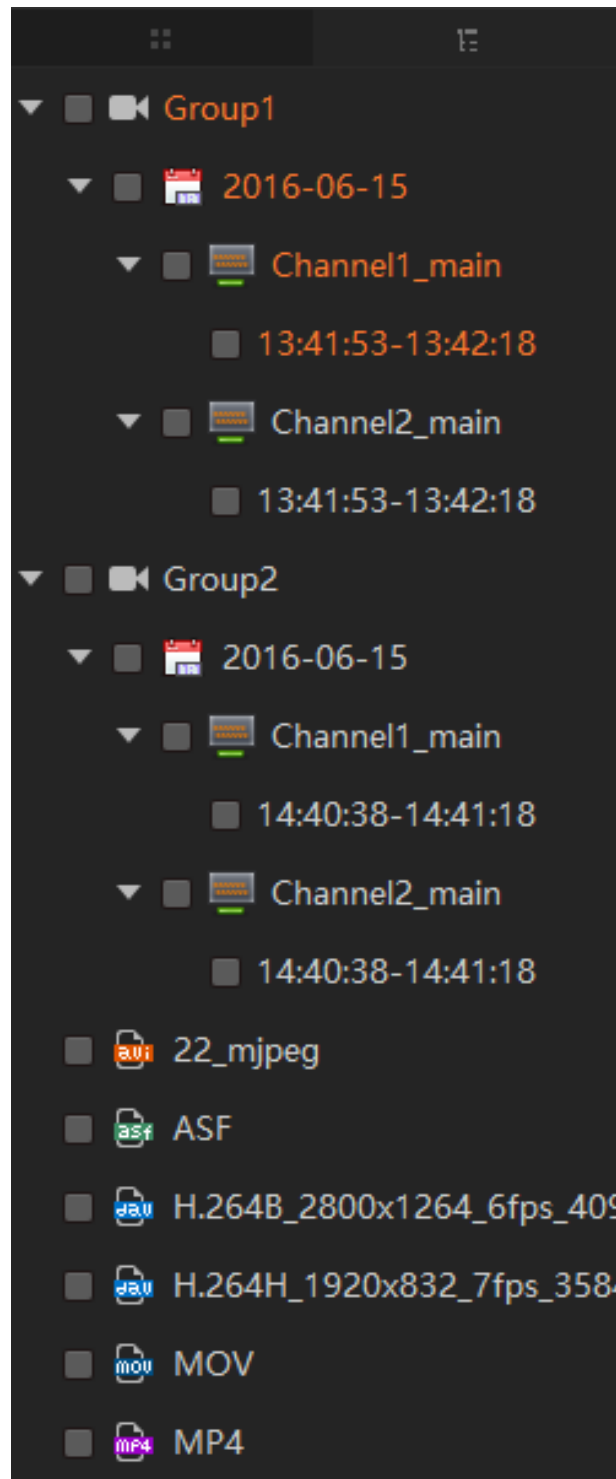
- Click  to display **Tree List**.

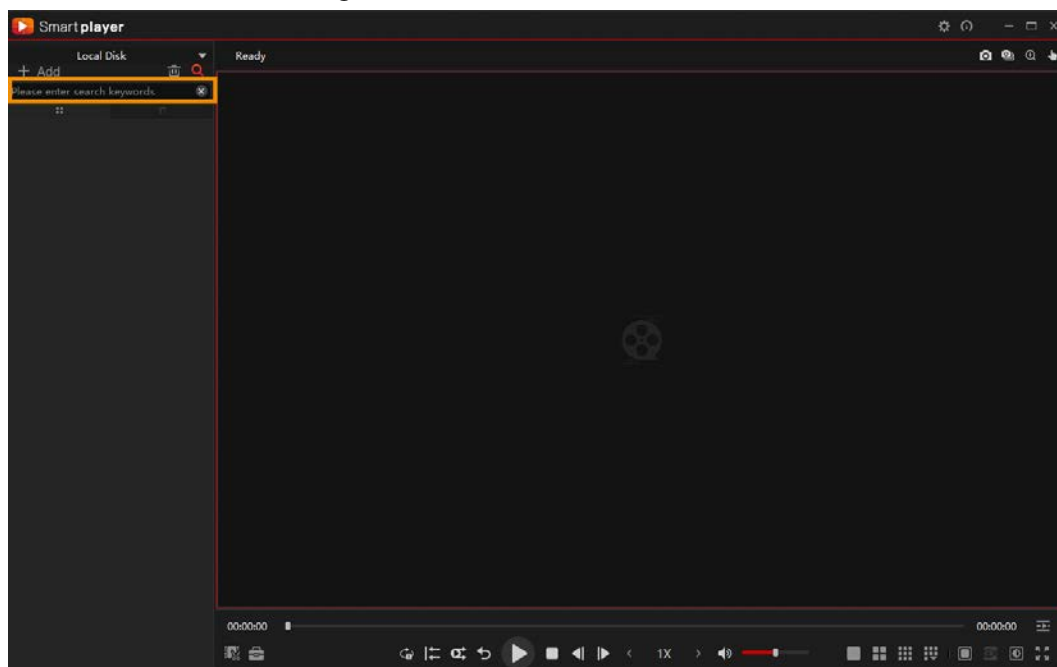
Figure 3-10 Tree list



3.4.4 Searching Video File

Step 1 Click .

Figure 3-11 Search video file



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

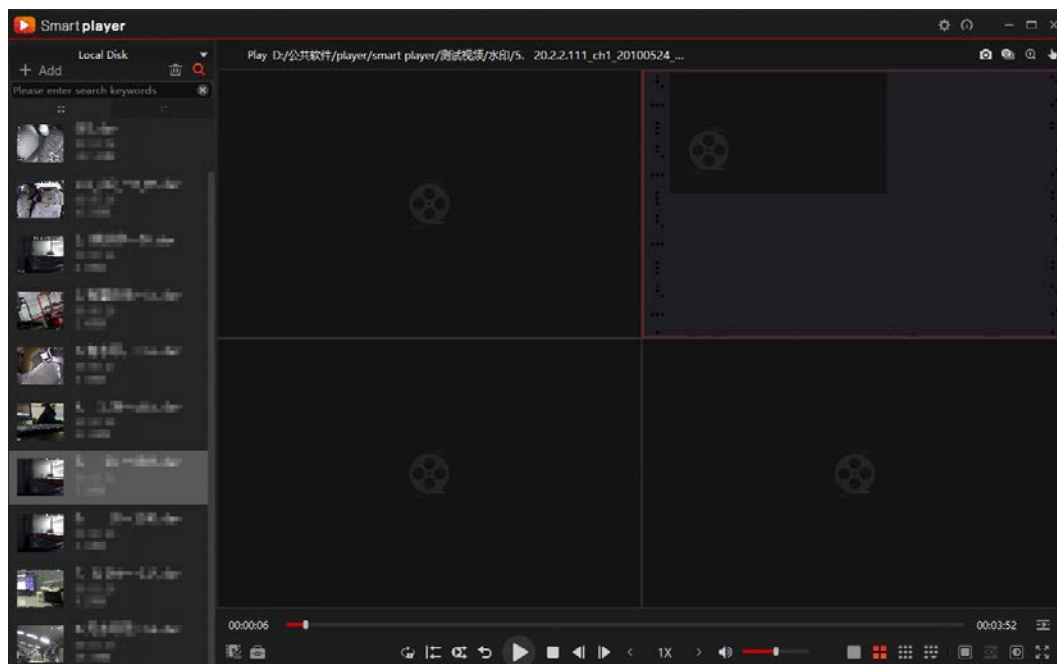
3.4.5 Playing Video File

Step 1 Select a video window.



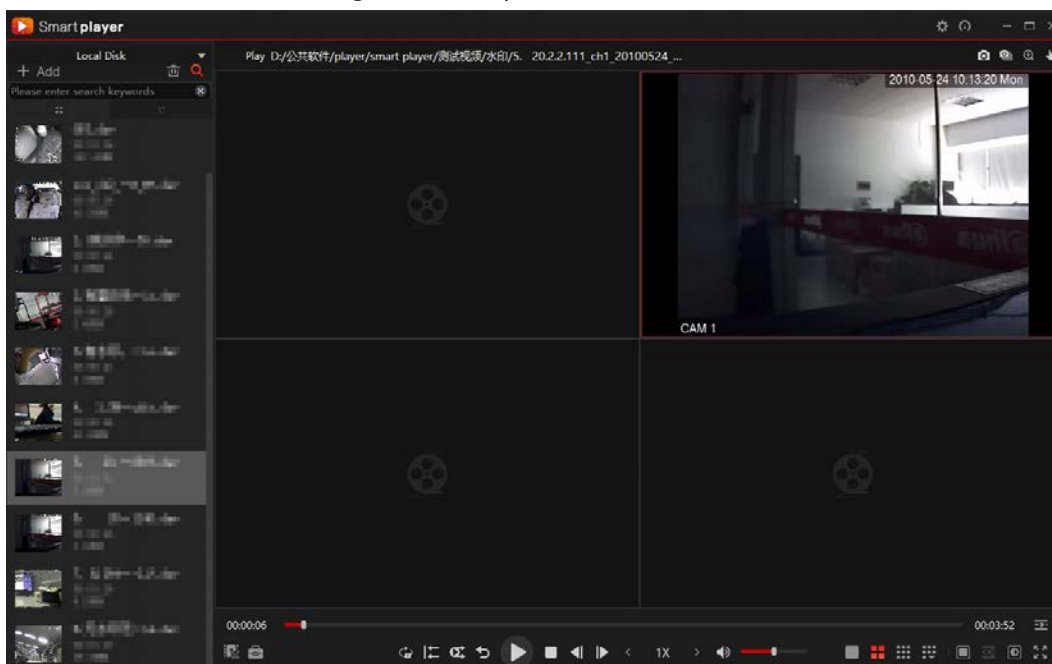
The red box indicates it has been selected.


Figure 3-12 Select video window




Step 2 In the **File List** area, double-click the video file, and then the video file is playing in the selected window.

Figure 3-13 Play video file






- Click  to set the play mode as **Order** or **Repeat One**.
- You can operate the video by playback controls bar. For details, see "3.5.1 Playback Control Bar".

3.4.6 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 methods:
 - ◇ 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 .



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





































3.5 Video Windows

3.5.1 Playback Control Bar

Figure 3-14 Local disk playback control bar



Table 3-2 Playback control bar description

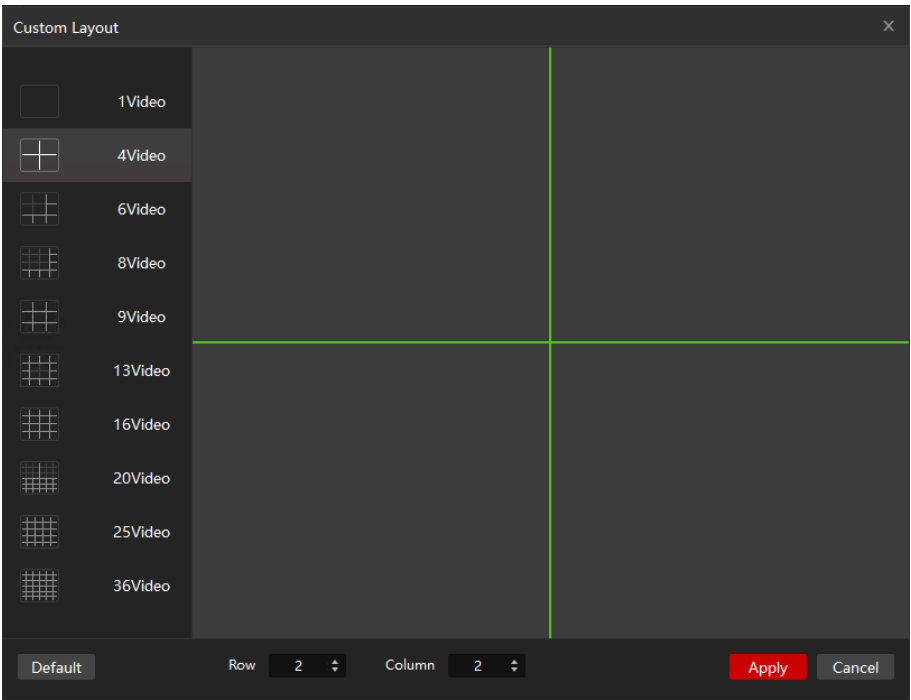
Icon	Description
	Click  to play the group videos on the external disk simultaneously.  This icon is only displayed on the external disk playback control bar.
	Click  to repeat playing the current video.
	Click  to play the current video file from the start.  This function applies to all the video windows being played.
 	Click  to switch to synchronous playback, and then the icon turns to  . Click  to switch to asynchronous playback. In synchronous playback mode, you can control multiple video windows at the same time.  Only group playing supports this function.
 	Play Backward. During playing back, click  to backward play the video, and then the icon turns to  . Click  to stop playing backward.
 	Play or pause video file of the selected video window.
	Click  to close playing of the current video window.
 	<ul style="list-style-type: none"> When the playback is paused, click  or  to play single-frame video. When playing video file, click  or  to switch video file.  During the group playing, it will switch the entire group. Otherwise, only the selected video window will be switched.
	Set the playback speed. <ul style="list-style-type: none"> Click  to set the speed of slow playback as 1/2 x, 1/4 x, 1/8 x, 1/16 x, 1/32 x or 1/64 x. Click  to set the speed of fast playback as 1 x, 2 x, 4 x, 8 x, 16 x, 32 x or 64 x.
 	Adjust volume of playback or click  to switch to mute mode.

3.5.2 Configuring View Layout

There are nine fixed common view layouts, and you can customize the view layout according to the

actual situation.

Figure 3-16 View layout (1)




Click  to display the complete video layout bar. You can switch the view layout by clicking the layout icon.

Figure 3-17 View layout (2)

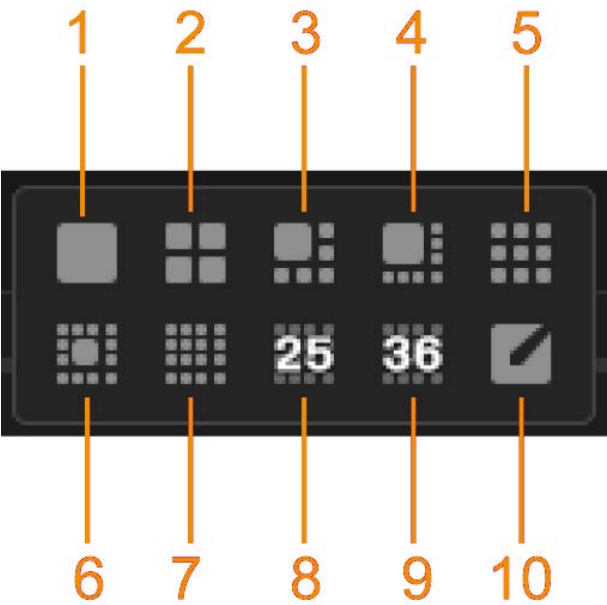


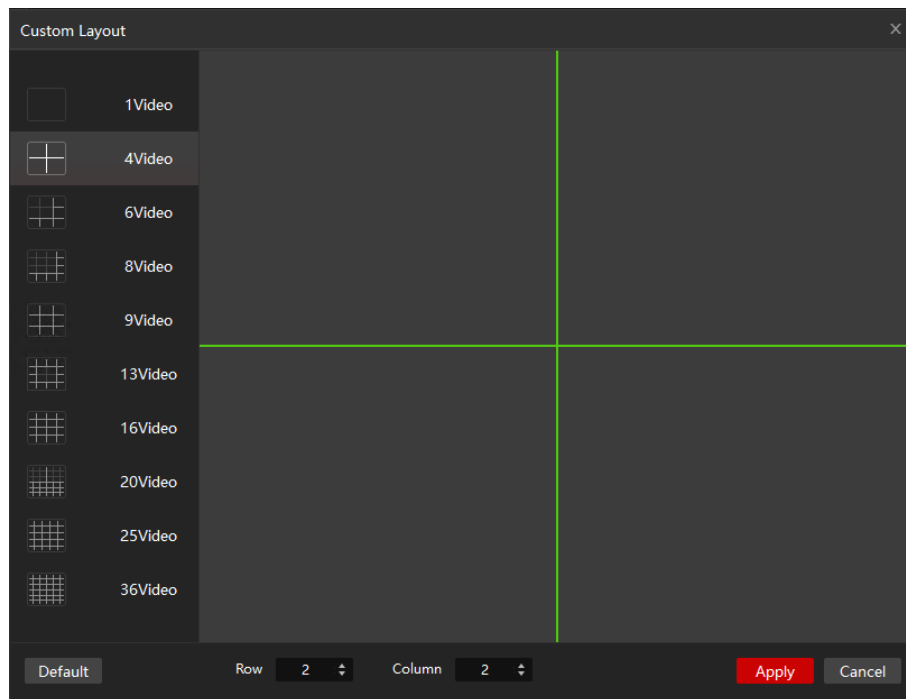
Table 3-3 View layout description

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.

3.5.3 Customizing View Layout

Step 1 Click  to display the **Custom Layout** page.

Figure 3-18 Custom layout



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 3-18) to set the number of windows.

Step 3 Click **Apply**.

3.5.4 Configuring Inner Split

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






- 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  to display inner split pattern.

Figure 3-19 Inner split pattern



-  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.

Figure 3-20 Split video



3.5.5 Configuring Fisheye



- 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.

Figure 3-21 Top mounting

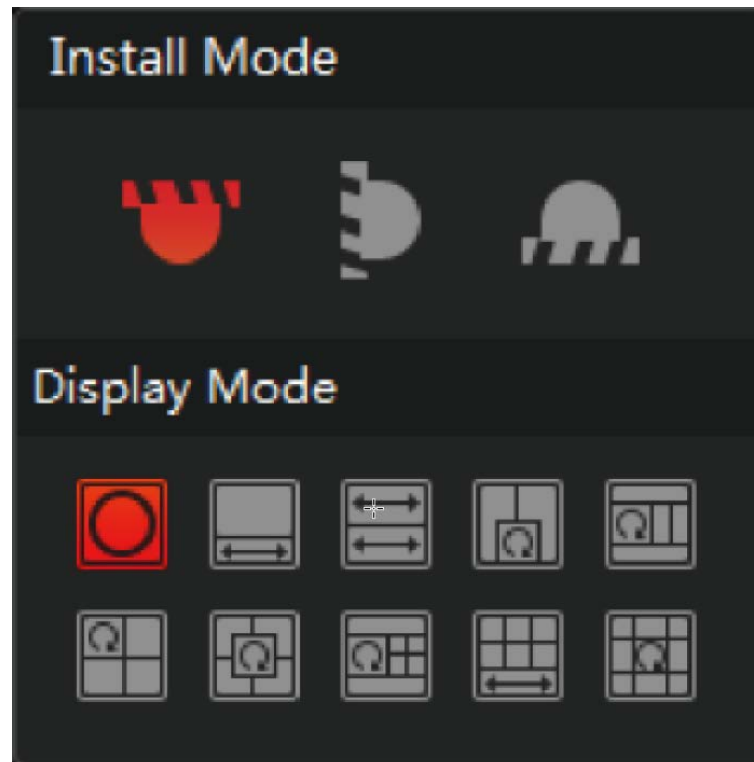


Figure 3-22 Wall Mounting

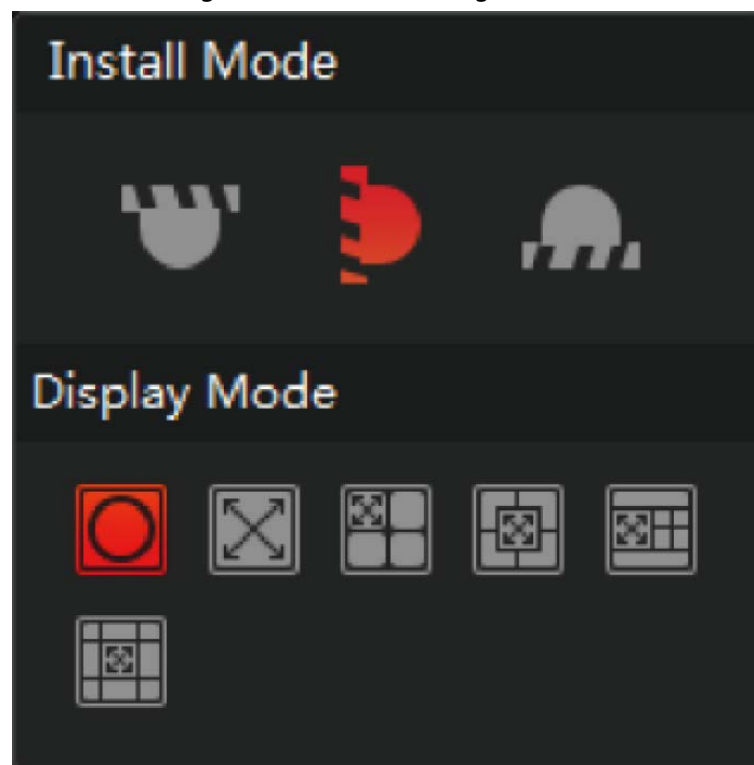


Figure 3-23 Ground mounting

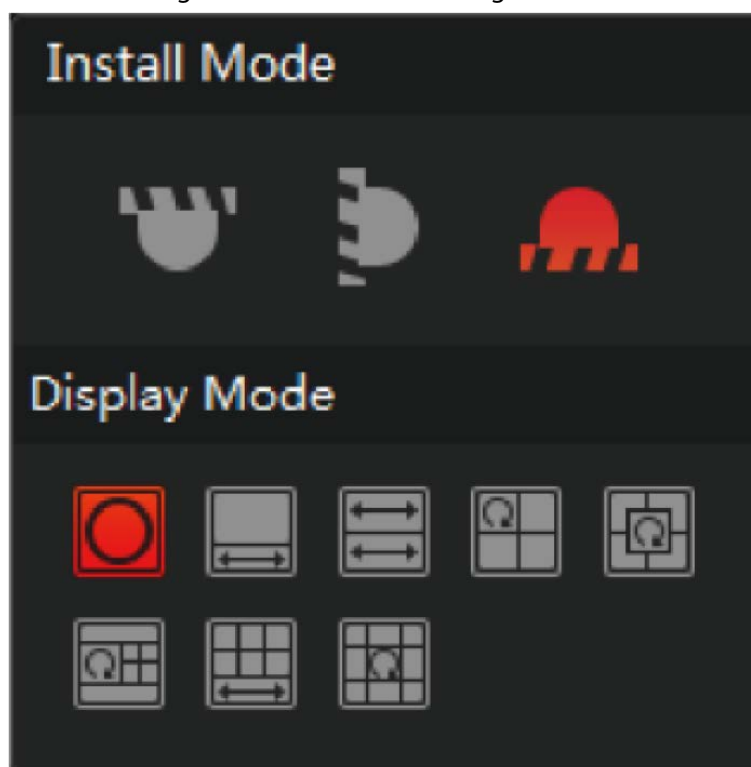















Table 3-4 Fisheye parameter description

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"> • Top mounting: 1P+1, 2P, 1+2, 1+3, 1+4, 1P+6, 1+8. • Wall mounting: 1P, 1P+3, 1P+4, 1P+8. • Ground mount: 1P+1, 2P, 1+3, 1+4, 1P+6, 1+8. <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		<p>1P+1.</p> <p>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.</p>
		<p>2P.</p> <p>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.</p>

Functions	Description	
		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.
		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.

Functions	Description	
		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.

3.5.6 Adjusting Image Settings

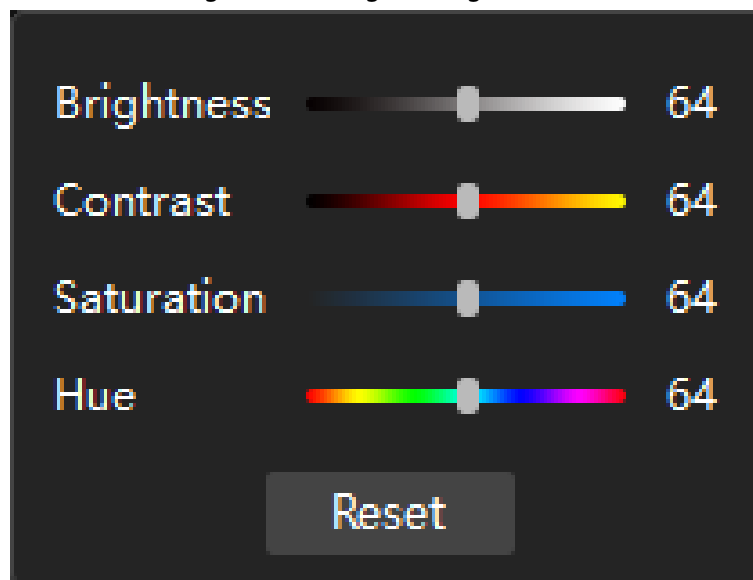
You can adjust brightness, contrast, saturation and hue for the image.



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

Step 1 Click .

Figure 3-24 Image setting



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



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

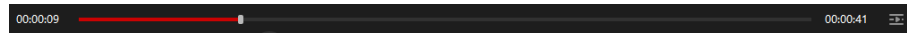
3.5.7 Switching Timeline

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


Single Timeline

If only one timeline is displayed, the Player displays the timeline of the focus window.

Figure 3-25 Single timeline



Group Video Timeline

When group videos are played simultaneously, click , and then the system displays the group video timeline.

Click any timeline to switch to the focus video window timeline. The selected timeline displays in blue box.





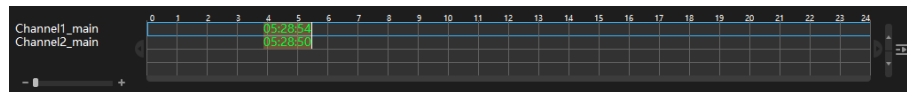
- If multiple videos are playing at the same time, the timeline will be displayed centered around the playing time of the selected window after the focus video window is switched.
- Click  to switch to next day and click  to switch to previous day. When there is a cross-day video file, the triangle on the button turns red.

Figure 3-26 Group video timeline



3.5.8 Zooming in Video

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



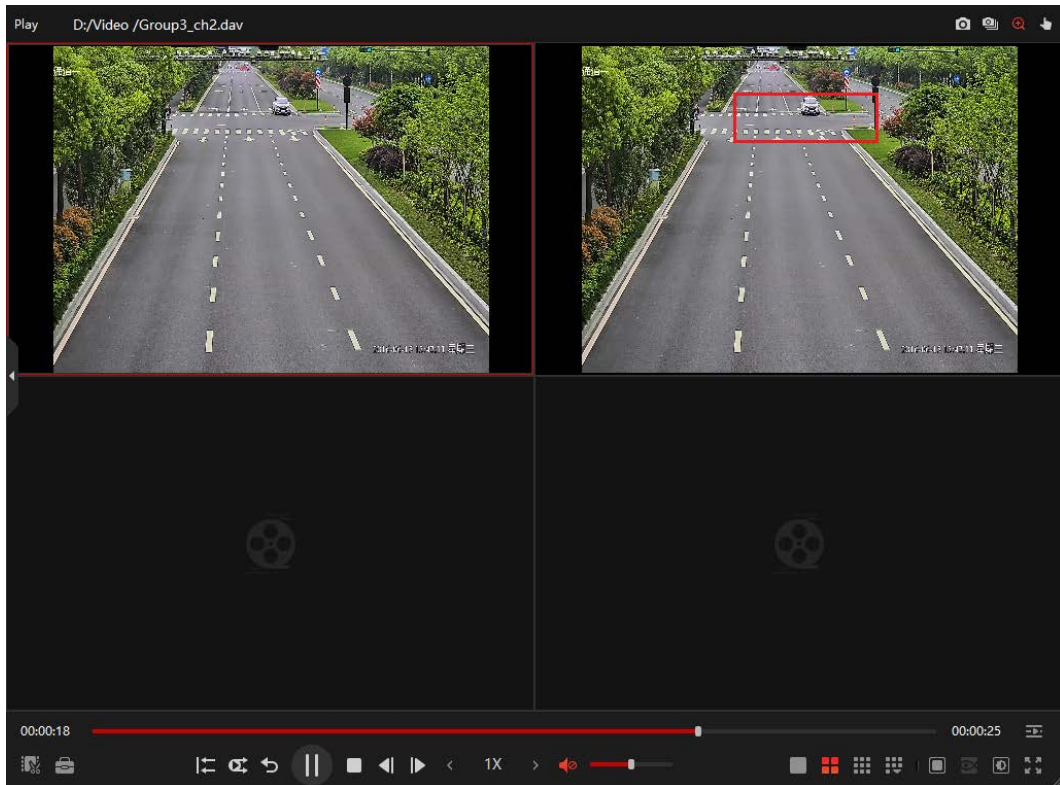
- This function does not apply to fisheye video.
- When video window is zoomed to a certain extent, it cannot be zoomed any more. You can right-click on the zoomed image to return the original status.

Step 1 Click , and then the icon switches to .

Step 2 Hold the left mouse button to select the area you want to zoom in.

The area is zoomed in after the left mouse button is released.

Figure 3-27 Zoom in video



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

3.5.9 Dragging Video Window


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


This function does not apply to fisheye video.

Step 1 Click  and then the icon switches to .

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

3.5.10 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.

3.5.11 Configuring Snap

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

Click **Snap** to capture one image at a time and use **Continuous Snapshot** to capture multiple images according to the set **Interval**. For details, see "3.3 Configuring System Settings".

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

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

3.6 Video Clip

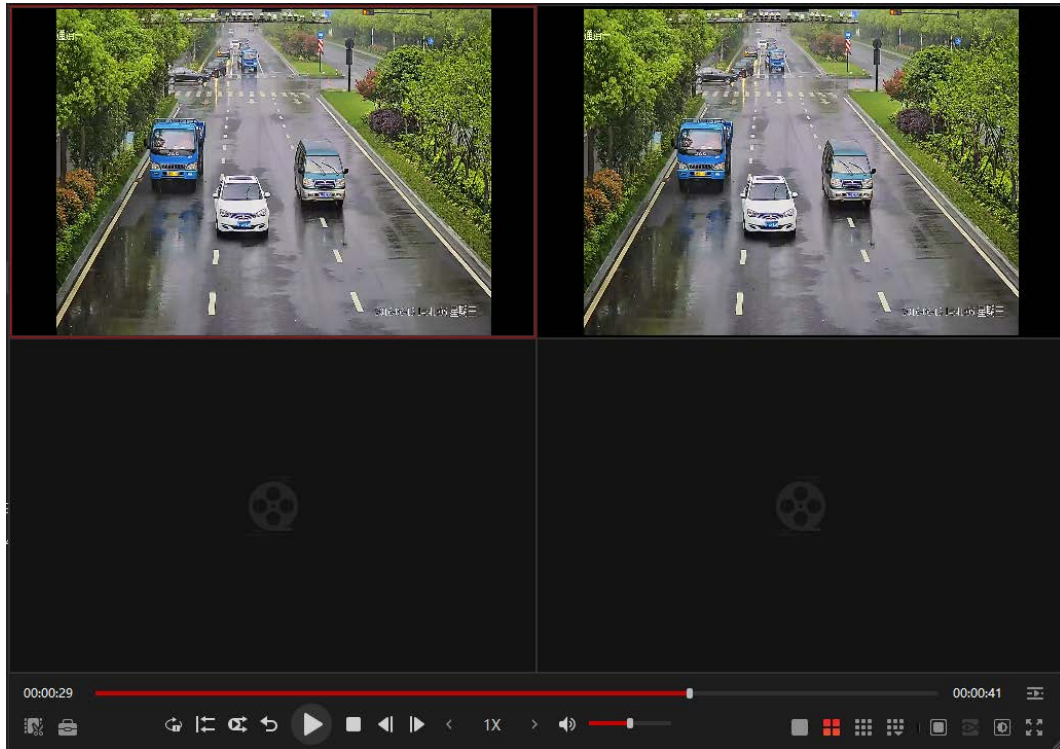
You can export the entire video file or the clipped video file.



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

Step 1 Select the video file being played.

Figure 3-28 Select video file



Step 2 Click  to export video files.

Figure 3-29 Video clip

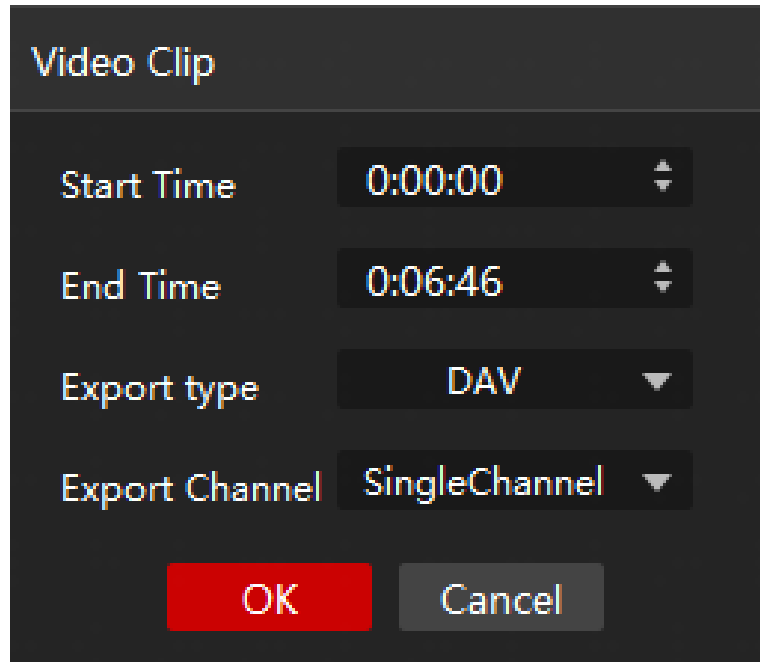



Table 3-5 Video clip parameter

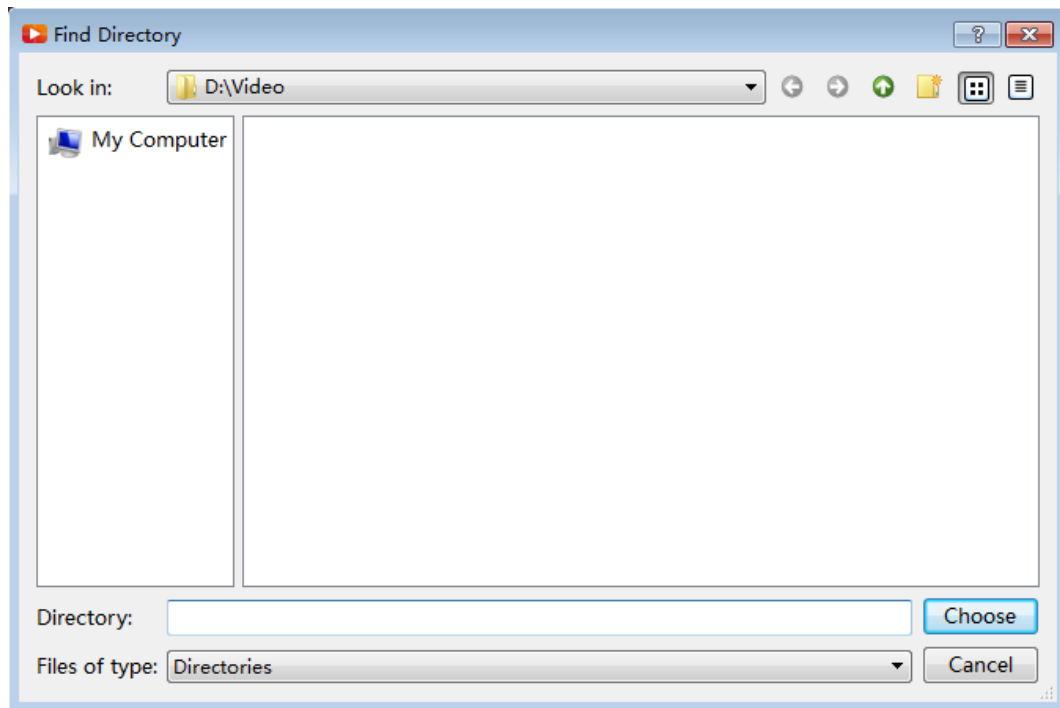
Parameter	Description
Start Time	Configure the start time of the exported video.
End Time	Configure the end time of the exported video. You can export the whole video.
Export type	Select the export type from the DAV. and AVI. format.
Export Channel	<p>Select the export channel from SingleChannel and AllChannel.</p> <p> All-channel clipping is available only when multiple videos of the same date are played simultaneously.</p>

Step 3 Click **OK**, and then the **Find Directory** dialog box is displayed.

Step 4 Select the save path, and then click **Choose**.

After the exporting is complete, a prompt indicating export result is displayed.

Figure 3-30 Export video type



- Step 5 Click **OK**.
You can click **Open Path** to view the exported video file.

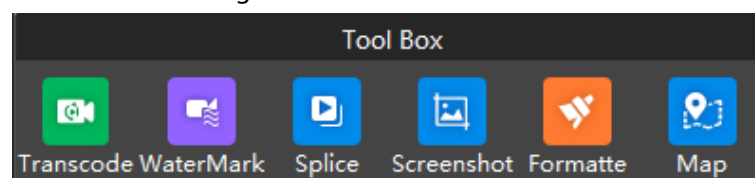
3.7 Tool Box

The Tool Box provides more operations about video files. You can download videos, check the watermark, preview splices, download the screenshots, format the external disk and view maps. Tool box needs video decryption authentication. Configure the parameters according to the video types. For details, see "3.4.1 Video Decryption Methods".

3.7.1 Transcode

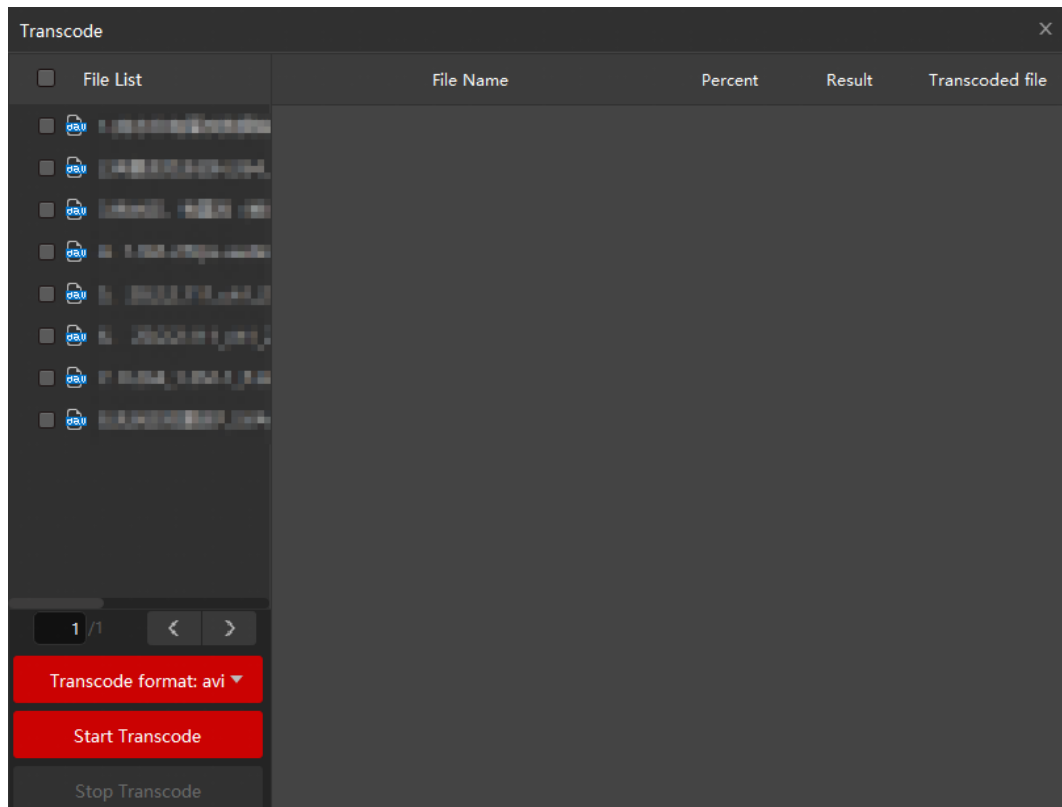
- Step 1 Click .

Figure 3-31 Tool box



- Step 2 Click **Transcode**.
Step 3 Select the files need to be transcoded from the file list.

Figure 3-32 Transcode video



Step 4 Select the transcode format from the drop-down list.



- For different target formats, we recommend different video encoding format, audio encoding format and sampling number.
- You can transcode non-splicing code stream (dav, avo, flv, ps and ts) to avi, asf, mp4, ts, ps or flv format. The 3200 W splicing code stream and password stream are not supported at present.

Table 3-6 Transcoding format requirement

Target format	Video encoding format	Audio encoding format and sampling number
avi	MPEG4, H264, JPEG, H265	G711U, G711A, pcm16, aac, pcm mulaw
asf	MPEG4, H264, JPEG, H265	G711U, G711A, pcm16, aac, pcm mulaw
mp4	H264, MPEG4, JPEG, H265, MPEG2	aac, mp2 , G711A
ts	H264, MPEG4, MPEG2, H265	aac, mp2
ps	H264, MPEG4, MPEG2, H265	aac, mp2
flv	H264	pcm, pcm16, aac, G711A, G711U

Step 5 Click **Start Transcode**.

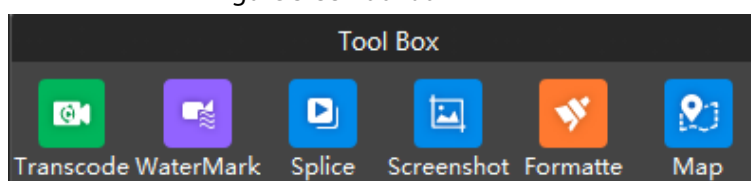
3.7.2 Watermark

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 .

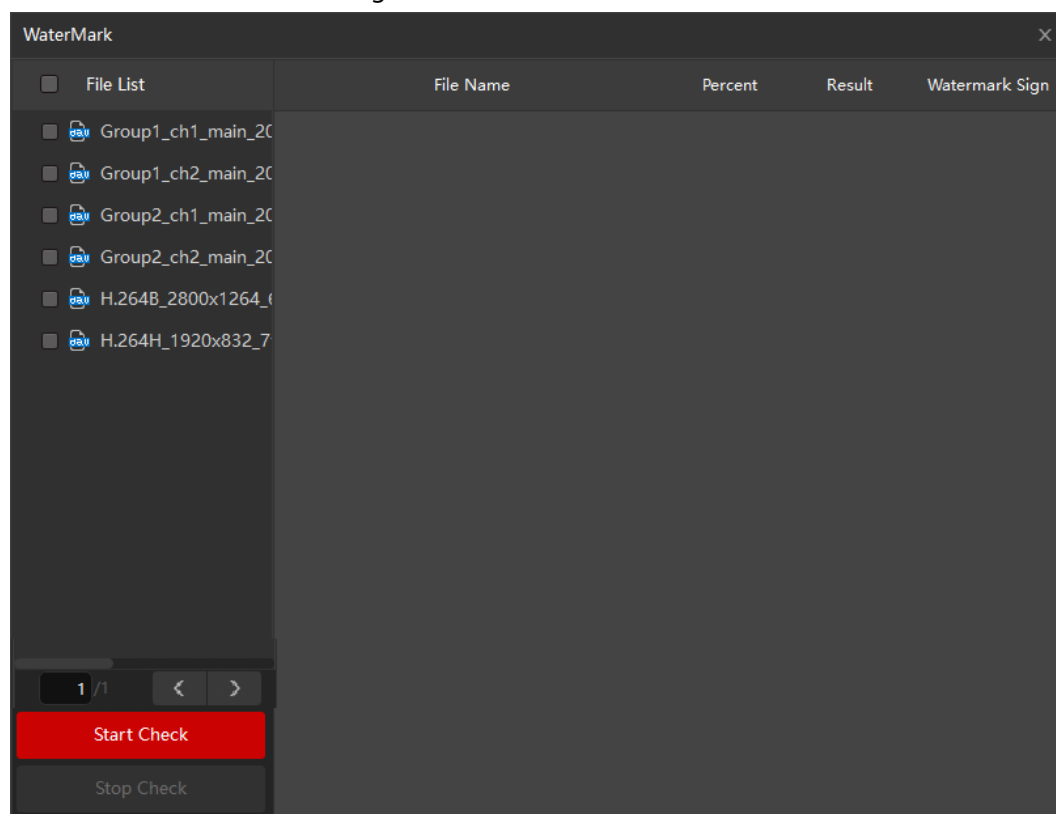
Figure 3-33 Tool box



Step 2 Click **Watermark**.

Step 3 Select one or multiple video files in the file list.

Figure 3-34 Watermark



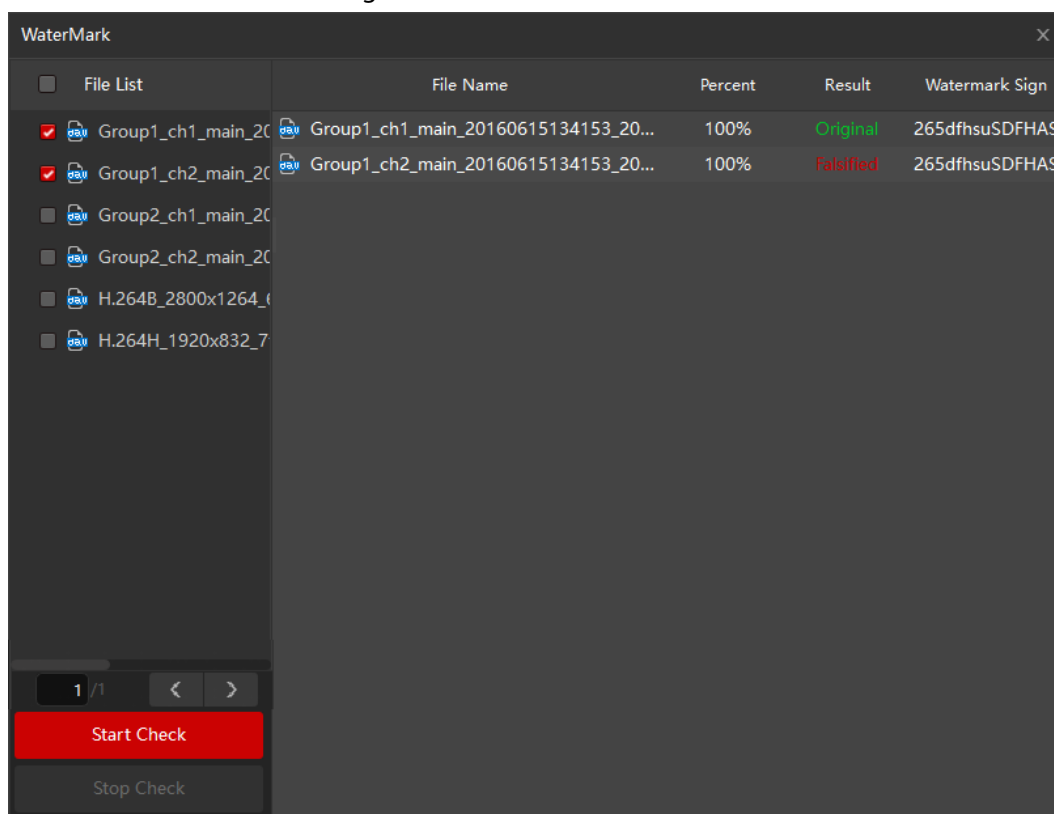
Step 4 Click **Start Check**.

When there are several videos, you can click the arrow keys to view them. After checking, the results will display the file name, percentage, result and watermark sign. If the video file has been falsified, double-click **Falsified** for the details.



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

Figure 3-35 Check result



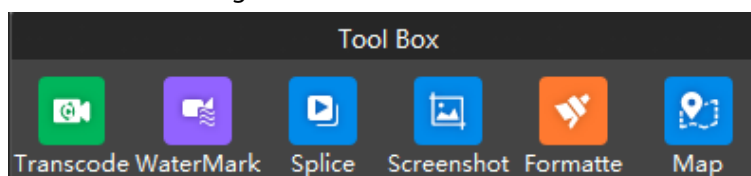
3.7.3 Splice

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 cannot 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 .

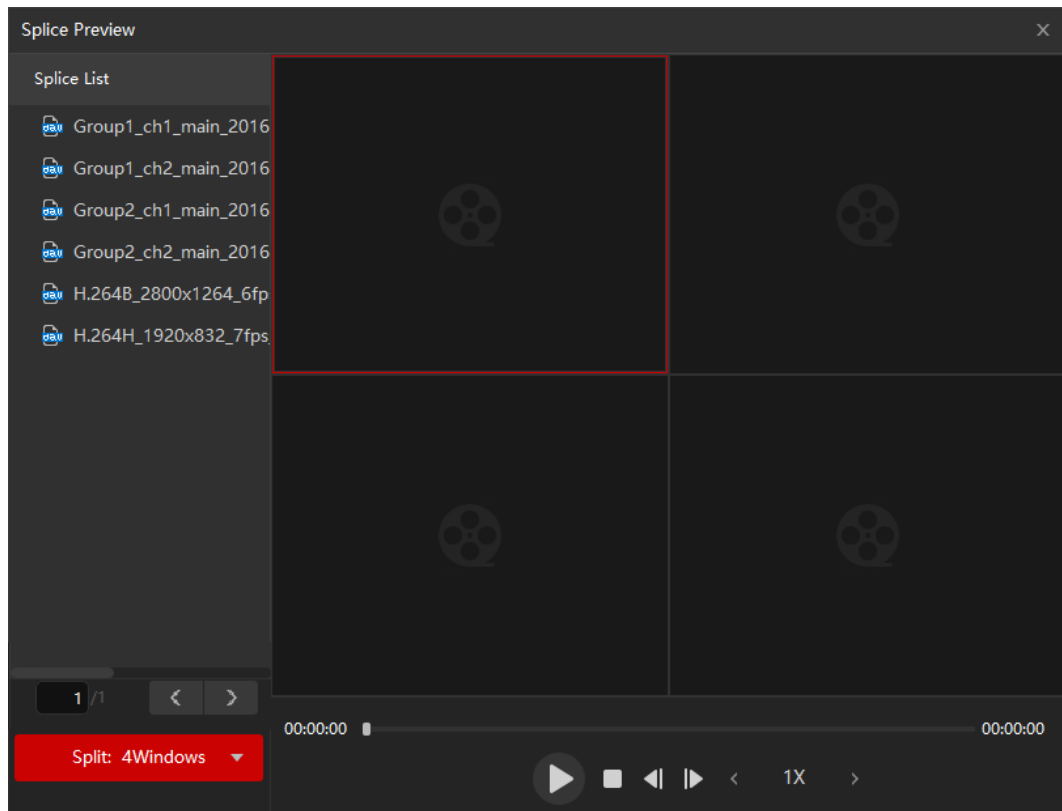
Figure 3-36 Tool box



Step 2 Click **Splice**.

When there are several videos, you can click the arrow keys to view them.

Figure 3-37 Splice preview page



Step 3 In the **Split** list, select the number of splices. For example, select **4Windows** 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.

Figure 3-38 Splice list



3.7.4 Screenshot

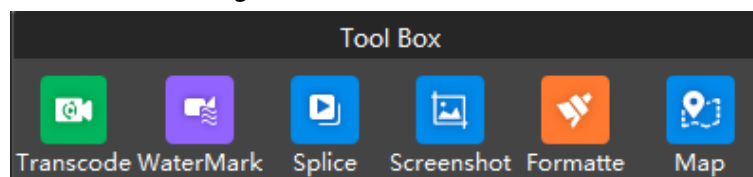
Prerequisites

Make sure you have connected external disk before downloading screenshots.

Procedure

Step 1 Click .

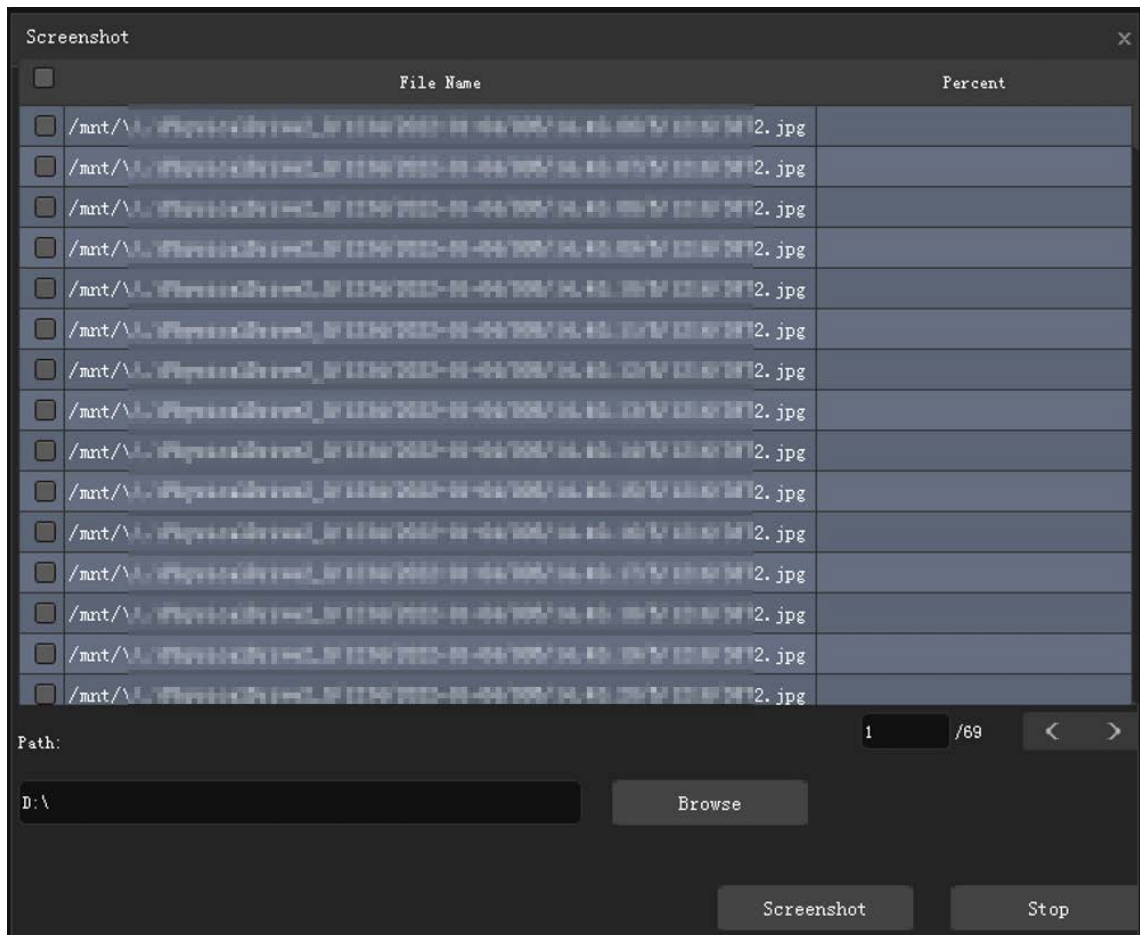
Figure 3-39 Tool box



Step 2 Click **Screenshot**.

Step 3 Select the screenshots to be downloaded, and then click **Browse** to set the storage path for the screenshots.

Figure 3-40 Download screenshot



- Step 4** Click **Screenshot** to start downloading screenshots.
After the download is complete, the **Screenshot** button is highlighted.



Click **Stop** to stop downloading.

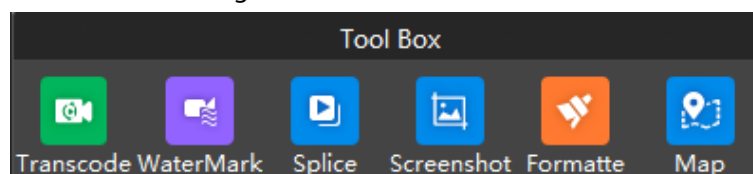
3.7.5 Formatte



Make sure you have connected external disk before formatting the disk.

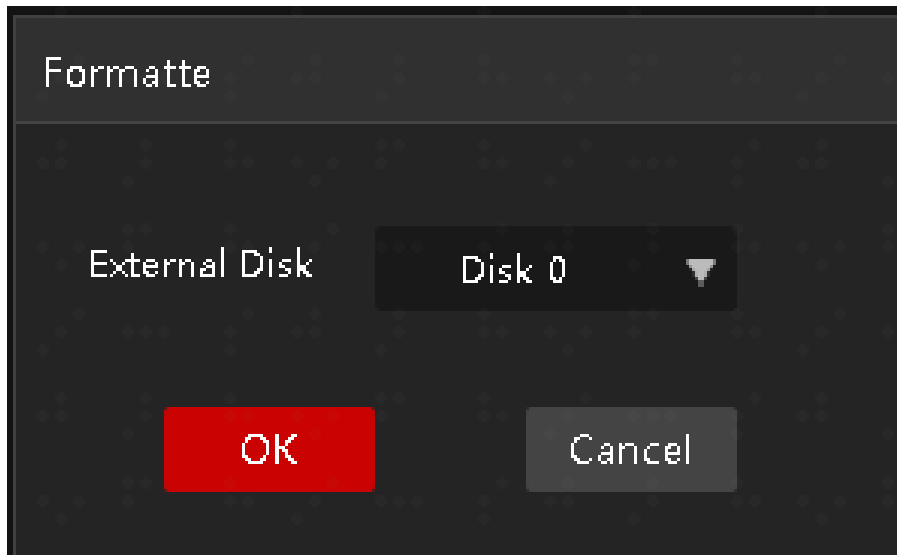
- Step 1** Click .

Figure 3-41 Tool box



- Step 2** Click **Formatte**.
Step 3 Select the external disk, and then click **OK**.

Figure 3-42 Format disk



3.7.6 Map

If the video contains GPS information, you can view the movement track and geographical location of the vehicle through map function.

Prerequisites

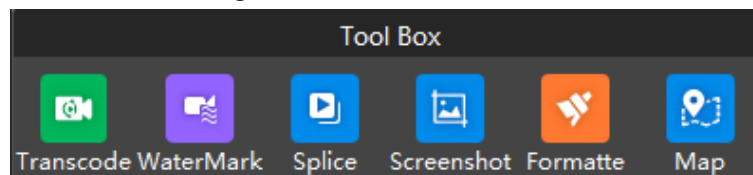
Enable **GPS Switch** in the system settings. For details, see "3.3 Configuring System Settings".

Procedure

Step 1 Select a video in the file list.

Step 2 Click .

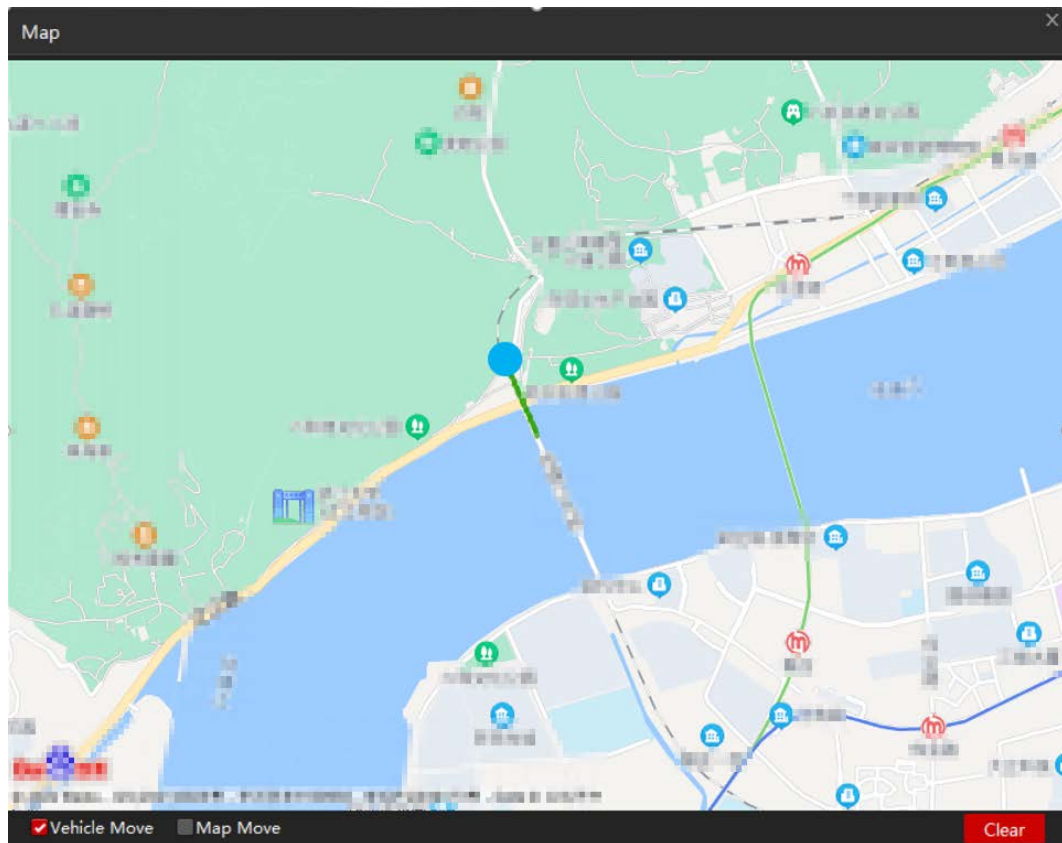
Figure 3-43 Tool box



Step 3 Click **Map**.

- If the video contains GPS information, the Player automatically pops up the map and displays the movement track.
- If the video does not contain GPS information, the Player automatically pops up the map but the movement track will not be displayed.

Figure 3-44 Movemene track



Step 4 Select **Vehicle Move** or **Map Move**.

- **Vehicle Move:** The map does not move, but the vehicle moves on the map and displays its movement track.
- **Map Move:** The vehicle does not move, but the map moves and displays movement track on the map.



- Scroll the mouse wheel to zoom in and out the map.
- Click **Clear** to clear the movement track of the vehicle on the map.