

Playback

6.1 Playing Back Record Files

6.1.1 Instant Playback

Purpose:

Play back the recorded video files of a specific channel in the live view mode. Channel switch is supported.

Instant playback by channel

Steps:

Choose a channel in live view mode and click the  button in the quick setting toolbar.



In the instant playback mode, only record files recorded during the last five minutes on this channel will be played back.



Figure 6.1 Instant Playback Interface

6.1.2 Playing Back by Normal Search

Playback by Channel

Enter the **Playback** interface.

Right click a channel in live view mode and select **Playback** from the menu, as shown in the following figure:

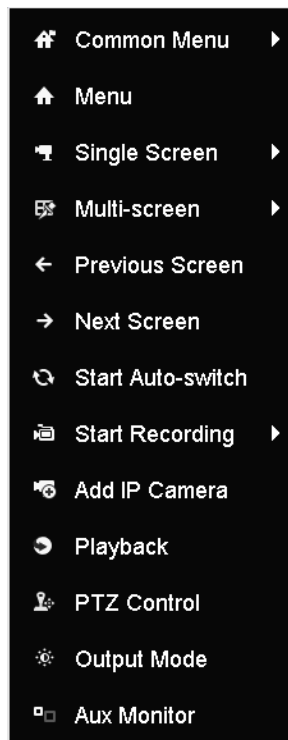


Figure 6. 2 Right-click Menu under Live View

Playback by Time

Purpose:

Play back video files recorded in specified time duration. Multi-channel simultaneous playback and channel switch are supported.



Steps:

1. Enter **Playback** interface.
Menu>Playback
2. Check the checkbox of channel(s) in the channel list and then double-click to select a date on the calendar.



Figure 6. 3 Playback Calendar



If there are record files for that camera in that day, in the calendar, the icon for that day is displayed as . Otherwise it is displayed as .

Playback Interface

You can select the main stream or sub stream from the dropdown list for playback.

You can also use the toolbar in the bottom part of **Playback** interface to control playing progress, as shown in the following figure.



Figure 6. 4 Playback Interface

Select the channel(s) if you want to switch playback to another channel or execute simultaneous playback of multiple channels.



Figure 6. 5 Toolbar of Playback

Table 6. 1 Detailed Explanation of Playback Toolbar

Button	Operation	Button	Operation	Button	Operation
	Audio on/Mute		Start/Stop clipping		Lock File
	Add default tag		Add customized tag		File management for video clips, locked files and tags
	Reverse play/Pause		Stop		Digital Zoom
	30s forward		30s reverse		Pause/Play
	Fast forward		Previous day		Slow forward
	Full Screen		Exit		Next day
	Save the clips		Process bar		Scaling up/down the time line
	Enable/Disable POS information overlay				



This enable/disable POS overlay function is supported by DS-7300HQHI-F/N and DS-8100HQHI-F/N series DVR only. When the POS is enabled when playing back, the POS information will be overlain on the video. And the keywords searching is supported.





- The **01-01-2015 00:00:23 – 14-07-2015 16:10:27** indicates the start time and end time of the record files.
- represents normal recording (manual or schedule); represents event recording (motion, alarm, motion | alarm, motion & alarm).
- Playback progress bar: use the mouse to click any point of the progress bar to locate special frames.

6.1.3 Playing Back by Event Search

Purpose:

Play back record files on one or several channels searched out by restricting event type (motion detection, alarm input or VCA). Channel switch is supported.

Steps:

1. Enter the **Playback** interface.
Menu>Playback
2. Click  and select  to enter the **Event Playback** interface.
3. Select **Alarm Input**, **Motion**, **VCA** as the event type, and specify the start time and end time for search.

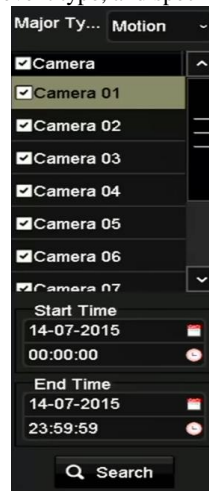





Figure 6. 6 Video Search by Motion Detection

4. Click **Search**, and the record files matching the search conditions will be displayed on a list.
5. Select and click  button to play back the record files.
You can click **Back** button to return to the search interface.
If there is only one channel triggered, clicking  button takes you to **Full-screen Playback** interface of this channel.
If several channels are triggered, clicking  button takes you to the **Synchronous Playback** interface.
Check ☒ checkbox to select one channel for playback or select multiple channels for synchronous playback.



The maximum number of channels for synchronous playback supported varies to different models.



Figure 6. 7 Select Channels for Synchronous Playback

6. On the **Event Playback** interface, you can select the main stream or sub stream from the dropdown list for playback.
The toolbar in the bottom part of **Playback** interface can be used to control playing process.





Figure 6. 8 Interface of Playback by Event

Pre-play and post-play can be configured for the playback of event triggered record files.

Pre-play: The time you set to play back before the event. For example, when an alarm triggered the recording at 10:00, if you set the pre-play time as 5 seconds, the video plays back from 9:59:55.

Post-play: The time you set to play back after the event. For example, when an alarm triggered the recording ends at 11:00, if you set the post-play time as 5 seconds, the video plays back till 11:00:05.

7. You can click  or  button to select the previous or next event. Please refer to Table 6.1 for the description of buttons on the toolbar.

6.1.4 Playing Back by Tag

Purpose:

Video tag allows you to record related information like people and location of a certain time point during playback. You are also allowed to use video tag(s) to search for record files and position time point.

Before playing back by tag:


1. Enter Playback interface.
Menu>Playback
2. Search and play back the record file(s). Refer to *Chapter 6.1.2 Play Back by Channel* for the detailed information about searching and playback of the record files.





Figure 6. 9 Interface of Playback by Time



Figure 6.12 Video Search by Tag

- Click  button to play back the file.
You can click the **Back** button to return to the search interface.



- Pre-play and post-play can be configured.
- You can click  or  button to select the previous or next tag. Please refer to Table 6.1 for the description of buttons on the toolbar.

6.1.5 Playing Back by Smart Search

Purpose:

The smart playback function provides an easy way to get through the less effective information. When you select the smart playback mode, the system will analyze the video containing the motion or VCA information, mark it with green color and play it in the normal speed while the video without motion will be played in the 16-time speed. The smart playback rules and areas are configurable.

Before you start:

To get the smart search result, the corresponding event type must be enabled and configured on the IP camera. Here we take the intrusion detection as an example.

- Log in the IP camera by the web browser, and enable the intrusion detection by checking the checkbox of it. You may enter the motion detection configuration interface by Configuration > Advanced Configuration > Events > Intrusion Detection.





Figure 6.13 Setting Intrusion Detection on IP Camera

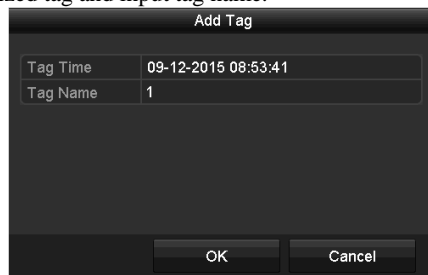
- Configure the required parameters of intrusion detection, including area, arming schedule and linkage methods. Refer to the user manual of smart IP camera for detailed instructions.

Steps:

- Enter the Playback interface.
Menu>Playback
- Select the **Smart** in the drop-down list on the top-left side.
- Select a camera in the camera list.

Click  button to add default tag.

Click  button to add customized tag and input tag name.



The 'Add Tag' dialog box contains two input fields: 'Tag Time' with the value '09-12-2015 08:53:41' and 'Tag Name' with the value '1'. At the bottom are 'OK' and 'Cancel' buttons.

Figure 6. 10 Add Tag



Max. 64 tags can be added to a single video file.

3. Tag management.

Click  button to check, edit and delete tag(s).



The 'File Management' window shows the 'Tag' tab. It contains a table with columns: Cam..., Tag Name, Time, Edit, and Delete. The table lists five tags, all with 'A1' as the camera and 'TAG' as the name. The times are sequential from 11:01:00 to 11:01:06. Each row has an edit icon and a delete icon. At the bottom, it says 'Total: 5 P: 1/1' and has a 'Cancel' button.









Cam...	Tag Name	Time	Edit	Delete
A1	TAG	13-07-2015 11:01:00		
A1	TAG	13-07-2015 11:01:01		
A1	TAG	13-07-2015 11:01:03		
A1	TAG	13-07-2015 11:01:05		
A1	TAG	13-07-2015 11:01:06		

Figure 6. 11 Tag Management Interface

Steps:


1. Select **Tag** from the drop-down list in the **Playback** interface.
2. Choose channels, edit start time and end time, and then click **Search** to enter **Search Result** interface.



You can enter keyword in the textbox to search the tag on your command.















Figure 6.14 Smart Playback Interface

4. Select a date in the calendar and click the  button to play.


Refer to Table 6.2 for the descriptions of the buttons on the Smart Playback Toolbar.

Table 6.2 Detailed Explanation of Smart Playback Toolbar


Button	Operation	Button	Operation	Button	Operation
	Draw line for the line crossing detection		Draw quadrilateral for the intrusion detection		Draw rectangle for the intrusion detection
	Set full screen for motion detection		Clear all		Start/Stop clipping
	File management for video clips		Stop playing		Pause playing / Play
	Smart settings		Search matched video files		Filter video files by setting the target characters

5. Set the rules and areas for smart search of VCA event or motion event.



- **Line Crossing Detection**


Select the  button, and click on the image to specify the start point and end point of the line.

- **Intrusion Detection**

Click the  button, and specify 4 points to set a quadrilateral region for intrusion detection. Only one region can be set.

- **Motion Detection**

Click the  button and then click and draw the mouse to set the detection area manually. You can also click the  button to set the full screen as the detection area.

6. Click  to configure the smart settings.

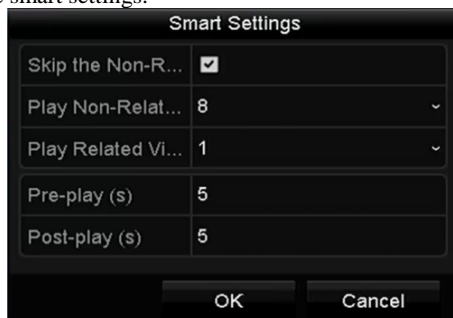


Figure 6.15 Smart Settings

Skip the Non-Related Video: The non-related video will not be played if this function is enabled.

Play Non-Related Video at: Set the speed to play the non-related video. Max. 8/4/2/1 are selectable.

Play Related Video at: Set the speed to play the related video. Max. 8/4/2/1 are selectable.



Pre-play and post-play is not available for the motion event type.

7. Click to search and play the matched video files.
8. (Optional) You can click to filter the searched video files by setting the target characters, including the gender and age of the human and whether he/she wears glasses.



Figure 6.16 Set Result Filter



The Result Filter function is supported by the IP camera only.

6.1.6 Playing Back by System Logs

Purpose:

Play back record file(s) associated with channels after searching system logs.

Steps:

1. Enter **Log Information** interface.
Menu>Maintenance>Log Information

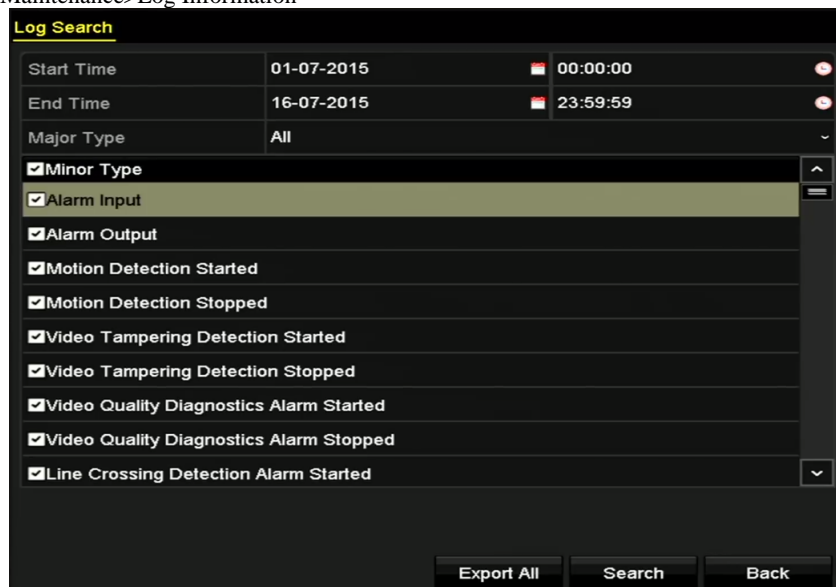


Figure 6.17 System Log Search Interface

2. Click **Log Search** tab to enter **System Log Search** interface.
Set search time and type and click **Search** button.

Search Result						
No.	Major Type	Time	Minor Type	Parameter	Play	Details
1	Information	10-07-2015 09:53:59	Local HDD Infor...	N/A	—	✓
2	Operation	10-07-2015 09:53:59	Power On	N/A	—	✓
3	Information	10-07-2015 09:54:05	Start Recording	N/A	⏮	✓
4	Operation	10-07-2015 09:54:08	Local Operation:...	N/A	—	✓
5	Information	10-07-2015 09:54:25	HDD S.M.A.R.T.	N/A	—	✓
6	Information	10-07-2015 09:54:32	Start Recording	N/A	⏮	✓
7	Operation	10-07-2015 09:54:32	Local Operation:...	N/A	⏮	✓
8	Operation	10-07-2015 09:54:32	Local Operation:...	N/A	⏮	✓
9	Exception	10-07-2015 09:55:32	IP Camera Disco...	N/A	⏮	✓
10	Information	10-07-2015 10:04:09	System Running...	N/A	—	✓
Total: 1690 P: 1/17						
				Export	Back	

Figure 6. 18 Result of System Log Search

- Choose a log with record file and click  button to enter **Playback** interface.



If there is no record file at the time point of the log, the message box “No result found” will pop up.

- Playback management.
The toolbar in the bottom part of Playback interface can be used to control playing process.



Figure 6. 19 Interface of Playback by Log

6.1.7 Playing Back by Sub-Periods

Purpose:

The video files can be played in multiple sub-periods simultaneously on the screens.

Steps:

- Enter **Playback** interface.
Menu>Playback
- Select **Sub-periods** from the drop-down list in the upper-left corner of the page to enter the **Sub-periods Playback** interface.
- Select a date and start playing the video file.
- Select the **Split-screen Number** from the dropdown list. Up to 16 screens are configurable.

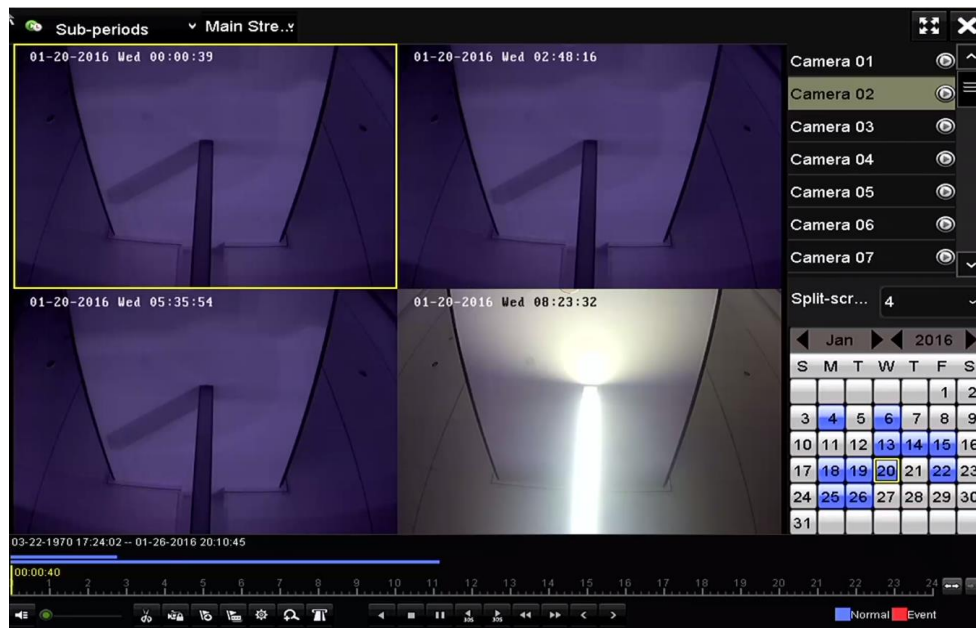


Figure 6.20 Interface of Sub-periods Playback



According to the defined number of split-screens, the video files on the selected date can be divided into average segments for playback. E.g., if there are video files existing between 16:00 and 22:00, and the 6-screen display mode is selected, then it can play the video files for 1 hour on each screen simultaneously.

6.1.8 Playing Back External File

Purpose:

Perform the following steps to look up and play back files in the external devices.

Steps:

1. Enter the Playback interface.
Menu>Playback
2. Select the **External File** in the drop-down list on the top-left side.
The files are listed in the right-side list.
You can click the button to refresh the file list.
3. Select and click the button to play back it.



Figure 6.21 Interface of External File Playback



6.2 Auxiliary Functions of Playback

6.2.1 Playing Back Frame by Frame

Purpose:

Play video files frame by frame, in order to check image details of the video when abnormal events happen.

Steps:

1. Go to Playback interface and click button  until the speed changes to *Single* frame.
2. One click on the playback screen represents playback or adverse playback of one frame. You can use button  in toolbar to stop the playing.

6.2.2 Digital Zoom

Steps:


1. Click the  button on the playback control bar to enter Digital Zoom interface.
2. Use the mouse to draw a red rectangle and the image within it will be enlarged up to 16 times.



Figure 6. 22 Draw Area for Digital Zoom

3. Right-click the image to exit the digital zoom interface.

6.2.3 Reverse Playback of Multi-channel

Purpose:


You can play back record files of multi-channel reversely. Up to 16-ch simultaneous reverse playback is supported.

Steps:

1. Enter Playback interface.
Menu>Playback
2. Check more than one checkboxes to select multiple channels and click to select a date on the calendar.



Figure 6. 23 4-ch Synchronous Playback Interface

3. Click  to play back the record files reversely.

Backup

7.1 Backing up Record Files

Before you start:

Please insert the backup device(s) into the device.

7.1.1 Backing up by Normal Video Search

Purpose:

The record files can be backed up to various devices, such as USB devices (USB flash drives, USB HDDs, USB writer), SATA writer and e-SATA HDD.

Backup using USB flash drives and USB HDDs

Steps:

1. Enter Export interface.
Menu>Export>Normal
2. Select the cameras to search.
3. Set search condition and click **Search** button to enter the search result interface.



The POS record type is supported by DS-7300HQHI-F/N and DS-8100HQHI-F/N series DVR only.

<input checked="" type="checkbox"/> Analog	<input checked="" type="checkbox"/> A1	<input checked="" type="checkbox"/> A2	<input checked="" type="checkbox"/> A3	<input checked="" type="checkbox"/> A4	<input checked="" type="checkbox"/> A5	<input checked="" type="checkbox"/> A6	<input checked="" type="checkbox"/> A7	<input checked="" type="checkbox"/> A8
<input checked="" type="checkbox"/> IP Camera	<input checked="" type="checkbox"/> D1	<input checked="" type="checkbox"/> D2						
Start/End time of record		01-01-2015 00:00:23 -- 16-07-2015 15:09:21						
Record Mode		Main Stream						
Record Type		All						
File Type		All						
Start Time		01-07-2015		00:00:00				
End Time		16-07-2015		23:59:59				

Figure 7. 1 Normal Video Search for Backup

4. The matched video files are displayed in **Chart** or **List** display mode.

Click to play the record file if you want to check it.

Check the checkbox before the video files you want to back up.



The size of the currently selected files is displayed in the lower-left corner of the window.



Figure 7.2 Result of Normal Video Search for Backup

5. Select video files from the **Chart** or **List** to export, and click the button **Export** to enter the **Export** interface.

You can also click **Export All** to select all the video files for backup and enter the **Export** interface.



Figure 7.3 Export by Normal Video Search using USB Flash Drive

6. Select the backup device from the drop-down list and you can also select the file format to filter the files existing in the backup device.
7. Select the save type to MP4 or AVI
8. Click the button **Export** on the Export interface to start the backup process. On the pop-up message box, select to export the video files or the player to the backup device. Click **OK** to confirm.

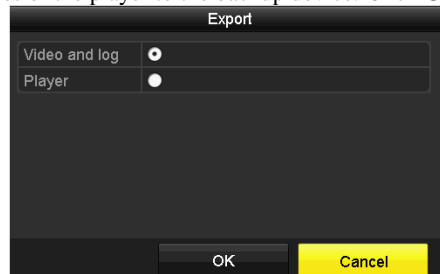


Figure 7.4 Select File or Player for Backup

9. A prompt message will pop up after the backup process is complete. Click **OK** to confirm.

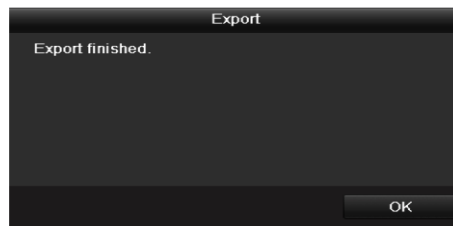


Figure 7.5 Export Finished



The backup of video files using USB writer or SATA writer has the same operating instructions. Please refer to steps described above.

7.1.2 Backing up by Event Search

Purpose:

Back up event-related record files using USB devices (USB flash drives, USB HDDs, USB writer), SATA writer or eSATA HDD. Quick Backup and Normal Backup are supported.

Steps:

1. Enter **Export** interface.
Menu > Export > Event
2. Select the cameras to search.
3. Select the event type to alarm input, motion, VCA or POS (for DS-7300HQHI-F/N and DS-8100HQHI-F/N series DVR only).

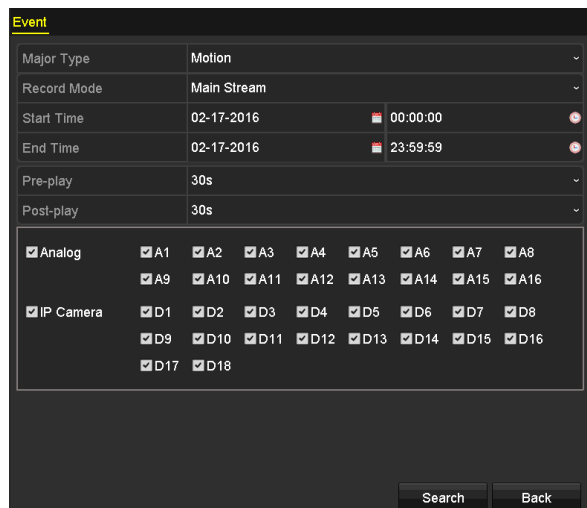


Figure 7.6 Event Search for Backup

4. Set search condition and click **Search** button to enter the search result interface. The matched video files are displayed in **Chart** or **List** display mode.
5. Select video files from the **Chart** or **List** interface to export.

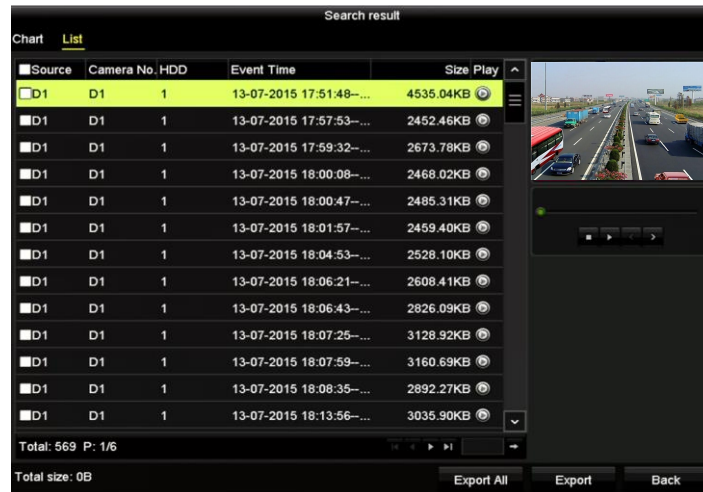


Figure 7.7 Result of Event Search

- Export the video files. Please refer to step5 of *Chapter 7.1.1 Backing up by Normal Video Search* for details.

7.1.3 Backing up Video Clips

Purpose:

You may also select video clips in playback mode to export directly during Playback, using USB devices (USB flash drives, USB HDDs, USB writer), or SATA writer.

Steps:




- Enter **Playback** interface.
- During playback, use buttons  or  in the playback toolbar to start or stop clipping record file(s).
- Click the  to enter the file management interface.



Figure 7.8 Video Clips Export Interface

- Export the video clips in playback. Please refer to step5 of *Chapter 7.1.1 Backing up by Normal Video Search* for details.

7.2 Managing Backup Devices

Management of USB flash drives, USB HDDs and eSATA HDDs

Steps:

- Enter the **Export** interface.



Figure 7. 9 Storage Device Management

2. Backup device management.

Click **New Folder** button if you want to create a new folder in the backup device.

Select a record file or folder in the backup device and click button if you want to delete it.

Click **Erase** button if you want to erase the files from a re-writable CD/DVD.

Click **Format** button to format the backup device.



If the inserted storage device is not recognized:

- Click the **Refresh** button.
- Reconnect device.
- Check for compatibility from vendor.