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S SERIES
Digital Video Recorder

Quick Operation Guide

UD.7L0202B1365B01

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Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact dealer.

This manual is applicable to

S04, S08, S16

DVR Pre-Installation

The DVR is highly advanced surveillance equipment that should be installed with care. Please take into consideration the following precautionary steps before installation of the DVR.

1. Keep all liquids away from the DVR.
2. Install the DVR in a well-ventilated and dust-free area.
3. Ensure environmental conditions meet factory specifications.
4. Install a manufacturer recommended HDD.

DVR Installation

During the installation of the DVR:

1. Use brackets for rack mounting.
2. Ensure there is ample room for audio and video cables.
3. When installing cables, ensure that the bend radius of the cables are no less than five times than its diameter.
4. Allow at least 2cm (≈ 0.75 -inch) of space between racks mounted devices.
5. Ensure the DVR is grounded.
6. Environmental temperature should be within the range of $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$, $14^{\circ}\text{F} \sim 131^{\circ}\text{F}$.
7. Environmental humidity should be within the range of 10% \sim 90%.

Hard Disk Installation

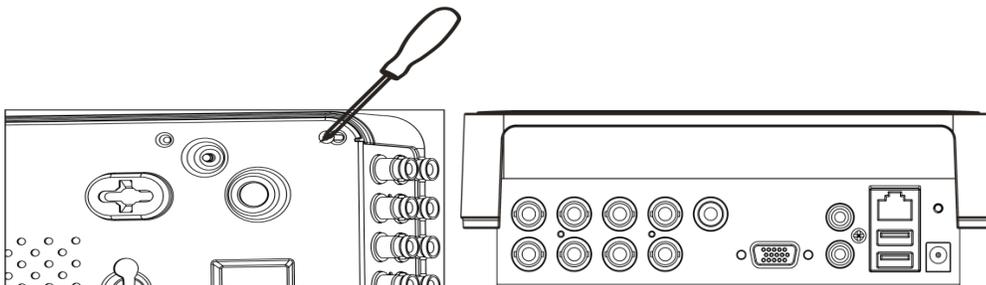
Before you start:

Before installing a hard disk drive (HDD), please make sure the power is disconnected from the DVR. A factory recommended HDD should be used for this installation.

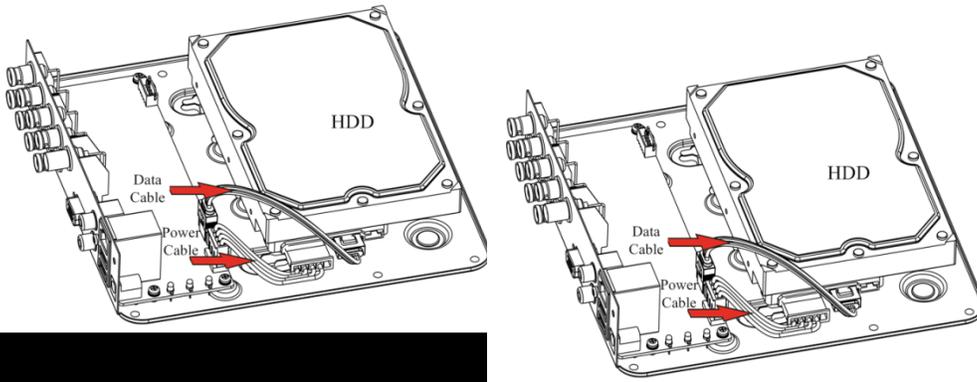
Tools Required: Screwdriver.

To install a HDD on your DVR:

1. Remove the cover from the DVR by unfastening the screws on the back and side.



2. Install the HDD in the HDD rack using the provided screws. Fasten the screws on the bottom to fix the HDD.
3. Connect the HDD to the motherboard of the DVR with the included data cable, and connect the power cable to the HDD.



4. Re-install the cover of the DVR and fasten screws.

Front Panel

S Series DVR

S Series DVR

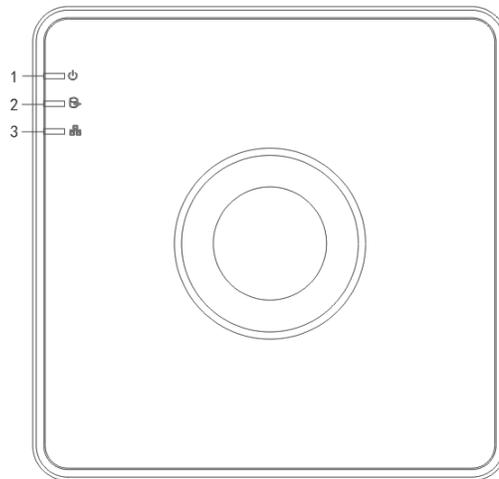


Table 1 Description of Indicators

	Icon	Description
1		Indicator turns red when DVR is powered up.
2		Indicator lights in red when data is being read from or written to HDD.
3		Indicator blinks blue when network connection is functioning properly.

Table 2 Description of Control Panel Buttons

Rear Panel

S Series DVR

The rear panel of S08 is shown below:

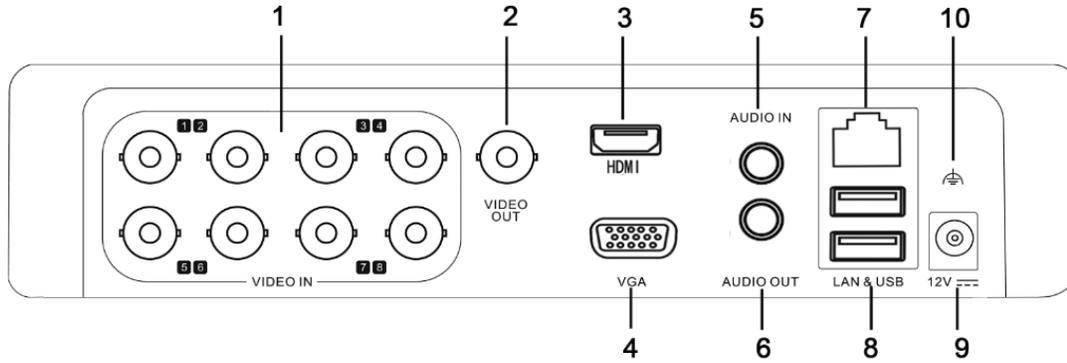


Table 3 Description of Rear Panel

No.	Item	Description
1	VIDEO IN	BNC connector for analog video input.
2	VIDEO OUT	BNC connector for video output.
3	HDMI	HDMI video output.
4	VGA	DB15 connector for VGA output. Display local video output and menu.
5	AUDIO IN	RCA connector for audio input.
6	AUDIO OUT	RCA connector for audio output.
7	LAN Interface	RJ45 10M / 100M Ethernet interface.
8	USB Interface	Connects USB mouse or USB flash memory devices.
9	12V	12VDC power supply.
10	GND	Ground(needs to be connected when DVR starts up)

Specifications

Table 1 Specifications for S Series DVR

Model		S 04	S 08	S 16
Video/ Audio input	Video compression	H.264		
	Video input	4-ch	8-ch	16-ch
	Video input interface	BNC (1.0 Vp-p, 75 Ω), PAL /NTSC self-adaptive		
	Audio compression	G.711u		
	Audio input	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1 kΩ) (using the audio input)		

Video/ Audio output	HDMI/VGA output	1-ch, resolution: 1080P:		
	CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480		
	Encoding resolution			
	Frame rate	25 fps (P) / 30 fps (N)		
	Video bitrate	32 Kbps ~ 3072 Kbps, or user defined (Max. 3072 Kbps)		
	Audio output	1-ch, RCA (Linear, 1 kΩ)		
	Audio bitrate	64 Kbps		
	Dual-stream	Support; Sub-stream: CIF/QCIF @ 25 fps (P) / 30 fps (N)		
	Stream type	Video, Video & Audio		
	Synchronous playback	4-ch	8-ch	16-ch
Hard disk	SATA	1 SATA interface		
	Capacity	Up to 4TB capacity		
External interface	Network interface	1, RJ45 10M / 100M Ethernet interface		
	USB interface	2, USB 2.0		

General	Power supply	12 VDC		
	Consumption (without hard disk)	≤ 6 W	≤ 8 W	≤ 10 W
	Working temperature	-10 °C ~+55 °C		
	Working humidity	10% ~ 90%		
	Dimensions (W × D × H)	200 × 200 × 45 mm	200 × 200 × 45 mm	285 × 210 × 45 mm
	Weight (without hard disk)	≤ 0.8 kg	≤ 1 kg	≤ 1.5 kg

HDD Storage Calculation Chart

The following chart shows an estimation of storage space used based on recording at one channel for an hour at a fixed bit rate.

Bit Rate	Storage Used
96Kbps	42M
128Kbps	56M
160Kbps	70M
192Kbps	84M
224Kbps	98M
256Kbps	112M
320Kbps	140M
384Kbps	168M
448Kbps	196M
512Kbps	225M
640Kbps	281M
768Kbps	337M
896Kbps	393M
1024Kbps	450M
1280Kbps	562M
1536Kbps	675M
1792Kbps	787M
2048Kbps	900M
3072Kbps	1350M

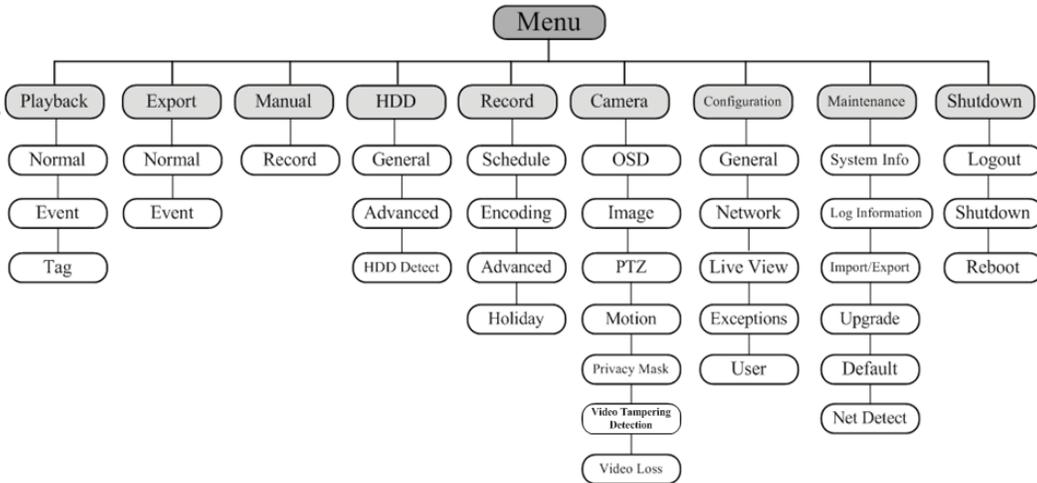


Please note that supplied values for storage space used is just for reference. Storage space used is estimated by formulas and may have some deviation from actual value.

Menu Operation

Menu Structure

The menu structure of the S series DVR is shown as below:



Startup and Shutdown

Proper startup and shutdown procedures are crucial to expanding the life of the DVR.

Before you start:

Check that the voltage of the extra power supply is the same with the device's requirement, and the ground connection is working properly.

Starting up the device:

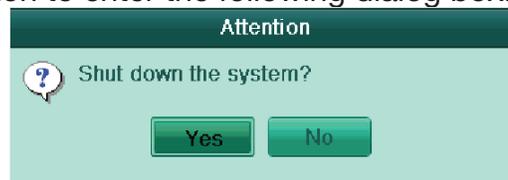
Steps:

Check the power supply is plugged into an electrical outlet. It is HIGHLY recommended that an Uninterruptible Power Supply (UPS) be used in conjunction with the device. The Power indicator LED should turn red indicating that the unit begins to start up.

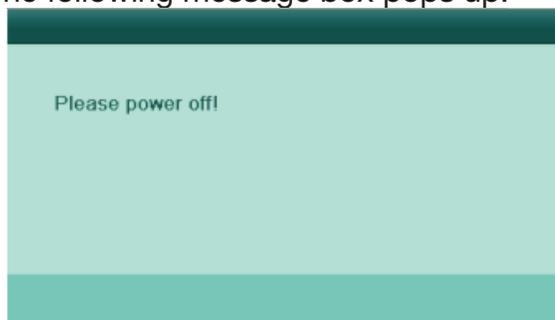
Shutting down the device:

Steps:

1. Enter the Shutdown menu.
Menu > Shutdown
2. Click the Shutdown button to enter the following dialog box:



3. Click the Yes button. The following message box pops up:



4. Disconnect the power supply of the device.

Using the Setup Wizard

The Setup Wizard can walk you through some important settings of the device. By default, the Setup Wizard starts once the device has loaded.

Operating the Setup Wizard:

You can set the system language after the device is started. Click Apply to save the language settings.



1. Check the checkbox to enable Setup Wizard when device starts. Click Next to continue the setup wizard.

You can also click Cancel to exit the Setup Wizard, or use the Setup Wizard next time by leaving the “Start wizard when device starts?” checkbox checked and exit.



2. Click Next button on the Wizard window to enter the Login window.
 - 1) Enter the admin password. By default, the password is 12345.
 - 2) To change the admin password, check the New Admin Password checkbox. Enter the new password and confirm the password in the given fields.

The screenshot shows a 'Wizard' window with a dark green header. Below the header is a table with four rows: 'Admin Password', 'New Admin Password', 'New Password', and 'Confirm'. Each row has a corresponding input field. At the bottom of the window, there are three buttons: 'Previous', 'Next', and 'Exit'.

Admin Password	
New Admin Password	<input type="checkbox"/>
New Password	
Confirm	

3. Click the Next button to enter the Date and Time settings window. Set the time zone, date format, system date and system time.

The screenshot shows a 'Wizard' window with a dark green header. Below the header is a table with four rows: 'Time Zone', 'Date Format', 'System Date', and 'System Time'. Each row has a corresponding dropdown menu or input field. At the bottom of the window, there are three buttons: 'Previous', 'Next', and 'Exit'.

Time Zone	(GMT+08:00) Beijing, Urumqi, Singapore
Date Format	DD-MM-YYYY
System Date	08-08-2013
System Time	08:52:28

1. Click Next button which takes you back to the NetworkSetup Wizard window. Set the network parameters, including the NIC type, IPv4 address, IPv4 subnet mask, default gateway, etc. You can enable the DHCP to automatically obtain an IP address and other network settings from that server.

The screenshot shows a 'Wizard' window with a dark green header. Below the header is a table with seven rows: 'NIC Type', 'Enable DHCP', 'IPv4 Address', 'IPv4 Subnet Mask', 'IPv4 Default Gateway', 'Preferred DNS Server', and 'Alternate DNS Server'. Each row has a corresponding dropdown menu or input field. At the bottom of the window, there are three buttons: 'Previous', 'Next', and 'Cancel'.

NIC Type	10M/100M Self-adaptive
Enable DHCP	<input type="checkbox"/>
IPv4 Address	172 .6 .21 .71
IPv4 Subnet Mask	255 .255 .255 .0
IPv4 Default Gateway	172 .6 .21 .1
Preferred DNS Server	
Alternate DNS Server	

2. Click Next button to enter the HDD Management window.

To initialize the HDD, click the Init button. Initialization removes all the data saved in the HDD.

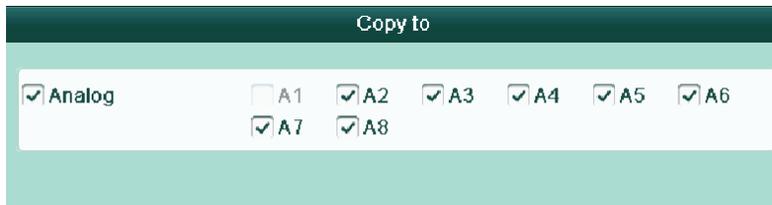


3. Click Next button to enter the Record Settings window.

- 1) Select the camera to configure. Check the checkbox to enable Start Recording.
- 2) Check the checkbox to enable Start Recording.



- 3) Select the recording mode to Normal or Motion Detection.
- 4) Click Copy to copy the record settings of the current camera to other camera (s) if needed.



5) Click OK to return to the Record Settings window

6) Click OK to complete the startup Setup Wizard.

Live View

Some icons are provided on screen in LiveView mode to indicate different camera status. These icons include:

Live View Icons

In the live view mode, there are icons at the right top of the screen for each channel, showing the status of the record and alarm in the channel, so that you can find problems as soon as possible.



Alarm (video loss, tampering or motion detection alarm)



Record (manual record, schedule record or motion detection record)



Alarm & Record

Using the Mouse in Live View

In the live view mode, right click on the screen or move the mouse to the bottom of the screen, the main menu button and the live view toolbar appears:



Table 4 Mouse Operation in Live View

Icon	Name	Description
	Main Menu	Enter the main menu of the system.
	Single Screen	Switch to the single full screen live view mode.
	Multi-screen	Switch to multi-screen live view mode. The multi-screen icon varies according to the device models.
	Normal Record	Start all-day normal recording for all channels.
	Motion Detection Record	Start motion detection recording for all channels.
	All-day Playback	Play back the record video.
	Aux Monitor	Switch to the auxiliary output mode and the operation for the main output is disabled. If you enter Aux monitor mode and the Aux monitor is not connected, the mouse operation is disabled. You can use the mouse wheel to double-click for three times to switch back to the main video output.
	Output Mode	Set the video output mode to Standard, Bright, Gentle or Vivid.
	Previous Screen	Switch to the previous screen.
	Next Screen	Switch to the next screen.
	Start/Stop Auto-switch	Enable/disable the auto-switch of the screens. The dwell time of the live view configuration must be set before using Start Auto-switch.
/	Lock/Unlock	Lock/unlock the toolbar.



If the corresponding camera supports intelligent function, the Reboot Intelligence option is

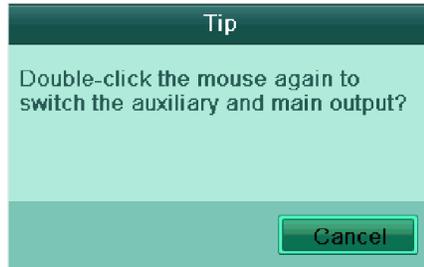
included when right-clicking mouse on this camera.

Main/Aux Output Switching

When the VGA output is configured as the main output, you can perform the following operation to switch to CVBS output as the main output.

Steps:

1. In the live view mode, select the Aux Monitor from the toolbar on the bottom or use the mouse wheel to double-click on the VGA output screen, and the following message box pops up:



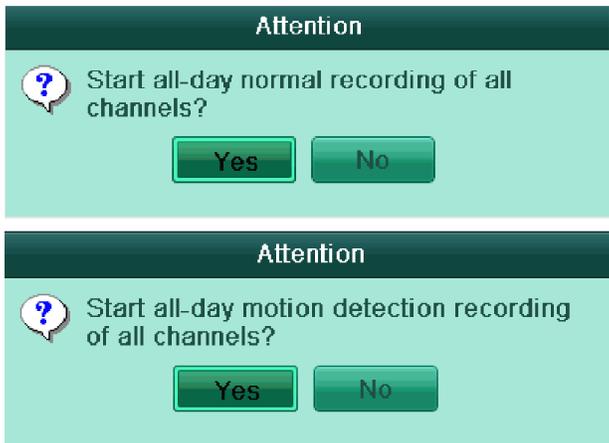
2. Use the mouse wheel to double-click on the screen again to switch to the Aux output, or click Cancel to cancel the operation.
3. On the aux output monitor, you can do some basic operation on the live view mode for the Aux output, including recording, live view, image settings, switch to main monitor, and no operation is allowed for the main output.
4. To switch to the main vide output, click the Main Monitor icon on the toolbar and click Yes on the pop-up message box.



You can select the Menu Output Mode to Auto, Main CVBS or VGA under Menu>Configuration>>General>More Settings.

Record

Move the mouse to the bottom of the screen in live view mode, and select the  or  icon to configure the normal recording or motion detection recording of all channels. In the pop-up message box, click Yes to start the recording of all channels.





The full-screen motion detection triggered recording is configured by default in this mode.

Playback

Play back the record files of a specific channel in the live view menu.

Instant playback by channel

Choose a channel under live view using the mouse and click the  button in the shortcut operation menu.



Only record files recorded during the past five minutes on this channel will be played back.



All-day playback by channel

1. Enter the All-day Playback menu.
Right-click on the live view window and the live view toolbar appears at the bottom of the screen. Then click the  on the live view toolbar to enter the Playback interface.
Under multi-screen live view, record files of the selected channel will be played back.
2. Playback management.
The toolbar in the bottom part of Playback interface can be used to control playing process.



The channel and time selection menu will display by moving the mouse to the right of the playback interface.

Tick the channel or channels if you want to switch playback to another channel or execute simultaneous playback of multiple channels.



Backup

Recorded files can be backed up to various devices, such as USB flash drives, or USB HDDs.

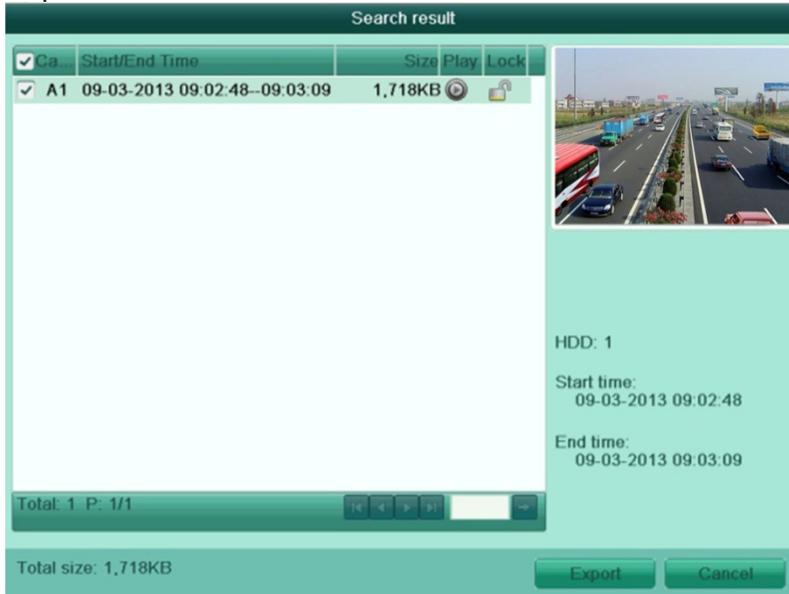
To export recorded files:

1. Click Menu>Export to enter Video Export interface.

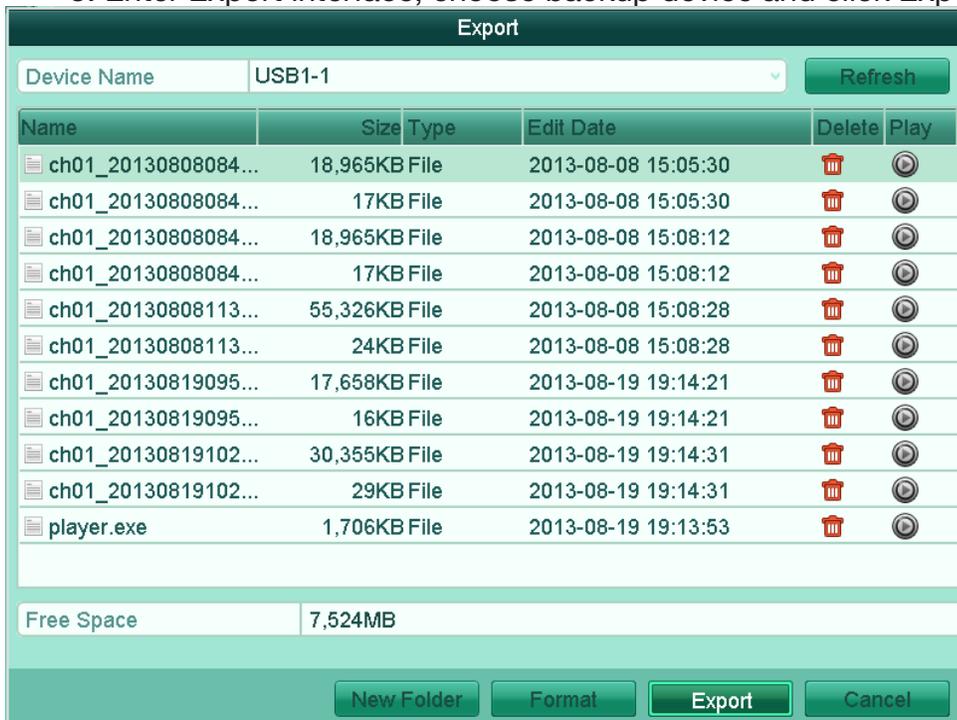
Choose the channel(s) you want to back up and click the Search button.



2. On the Search Result interface select record files you want to back up, and then click Export button.



3. Enter Export interface, choose backup device and click Export button to start exporting.



4. Check backup result.

Choose the record file in Export interface and click the  button to check it.

Export

Device Name: USB1-1 Refresh

Name	Size	Type	Edit Date	Delete	Play
 ch01_20130808084...	18,965KB	File	2013-08-08 15:05:30		
 ch01_20130808084...	17KB	File	2013-08-08 15:05:30		
 ch01_20130808084...	18,965KB	File	2013-08-08 15:08:12		
 ch01_20130808084...	17KB	File	2013-08-08 15:08:12		
 ch01_20130808113...	55,326KB	File	2013-08-08 15:08:28		
 ch01_20130808113...	24KB	File	2013-08-08 15:08:28		
 ch01_20130819095...	17,658KB	File	2013-08-19 19:14:21		
 ch01_20130819095...	16KB	File	2013-08-19 19:14:21		
 ch01_20130819102...	30,355KB	File	2013-08-19 19:14:31		
 ch01_20130819102...	29KB	File	2013-08-19 19:14:31		
 player.exe	1,706KB	File	2013-08-19 19:13:53		

Free Space: 7,524MB

New Folder Format Export Cancel

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