

N5 Series Standalone DVR Quick Start Guide

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Welcome

Thank you for purchasing our DVR!

This quick start guide will help you become familiar with our DVR in a very short time.

Here you can find hardware installation, cable connection information and general operations such as system setup, record, search, backup, alarm setup, PTZ operation, also here you can find web operation instruction.

Before installation and operation, please read the following safeguard and warning carefully!

Important Safeguard and Warning

1 . Electrical safety

All installation and operation here should conform to your local electrical safety codes.

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

2 . Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3 . Installation

Keep upwards. Handle with care.

Do not apply power to the DVR before completing installation.

Do not place objects on the DVR

4 . Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

5 . Environment

The DVR should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

This series product shall be transported, installed and use under the environment ranging from 0°C to 40°C.

6. Accessories

Be sure to use all the accessories recommended by manufacturer.

Before installation, please open the package and check all the components are included:

Contact your local retailer ASAP if something is missing in your package.

7. Lithium battery

Improper battery use may result in fire, explosion, or personal injury!

When replace the battery, please make sure you are using the same model!

1 Hardware Installation and Connection

Note: All the installation and operations here should conform to your local electric safety rules.

1.1 Check Unpacked DVR

When you receive the DVR from the forwarding agent, please check whether there is any visible damage. The protective materials used for the package of the DVR can protect most accidental clashes during transportation. Then you can open the box to check the accessories.

Please check the items in accordance with the list on the warranty card (Remote control is optional). Finally you can remove the protective film of the DVR.

Note

Remote control is not a standard accessory and it is not included in the accessory bag.

1.2 About Front Panel and Rear Panel

For detailed information of the function keys in the front panel and the ports in the rear panel, please refer to the *User's Manual* included in the resource CD.

The model in the front panel is very important; please check according to your purchase order. The label in the rear panel is very important too. Usually we need you to represent the serial number when we provide the service after sales.

1.3 After Remove the Chassis

Please check the data cable, power cable, COM cable and main board cable connection is firm or not.

1.4 HDD Installation

1.4.1 1U Series

This series DVR has only one SATA HDD. Please use HDD of 7200rpm or higher.

You can refer to the Appendix for recommended HDD brand.

Please follow the instructions listed below to install hard disk.



1. Loosen the screws of the upper cover and side panel.

2. Fix four screws in the HDD (Turn just three rounds).

3. Place the HDD in accordance with the four holes in the bottom.



4. Turn the device upside down and then turn the screws in firmly.



5. Fix the HDD firmly.



6. Connect the HDD cable and power cable.



7. Put the cover in accordance with the clip and then place the upper cover back.



8. Secure the screws in the rear panel and the side panel.

Note:

- You can connect the HDD data cable and the power cable first and then fix the HDD in the device.
- Please pay attention to the front cover. It adopts the vertical sliding design. You need to push the clip first and then put down.

1.4.2 1.5U Series

This series DVR has four/eight SATA HDDs. Please use HDD of 7200rpm or higher. It has no requirement for HDD capacity.

You can refer to the appendix for recommended HDD brand.

Please follow the instructions below to install hard disk.



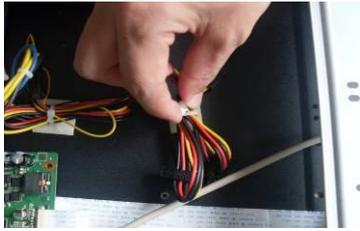
1. Loosen the screws of the upper cover.



2. Line up the HDD to the four holes of the HDD bracket.



3. Use four screws to fix HDD.



4. Unfasten the HDD power cable.



5. Use the special data cable to connect the HDD and the SATA port



6. Insert the HDD power cable. Close the chassis and fix the screws to secure firmly.

After completing HDD installation, please check connection of data ribbon and power cord.

Note

- If your HDD is less than (or equal to) 4 HDD, you do not need to remove the HDD bracket, you can install HDD in the bracket directly.
- When you secure the HDD, please make sure the HDD installation direction in the up/down bracket are the same.

1.4.3 2U series

This series DVR max supports 8 SATA HDDs. Please use HDD of 7200rpm or higher. It has no requirement for HDD capacity.

You can refer to the appendix for recommended HDD brand.

Please follow the instructions below to install hard disk.



1. Loosen the screws of the upper cover.



2. Remove the HDD upper bracket



3. Now you can see the bottom bracket



4. Line up the HDD to the four holes of the HDD bracket.



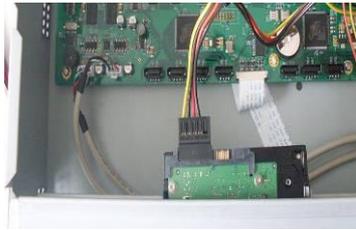
5. Use four screws to fix HDD.



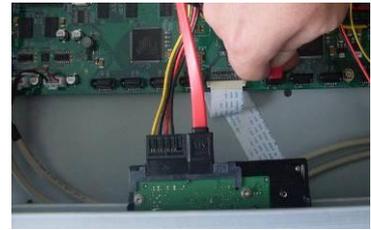
6. Install the upper bracket and then Use screws to fix HDD in the bracket.



7. Unfasten the HDD power cable.



8. Insert the HDD power cable.



9. Use the special data cable to connect the HDD and the SATA port. Close the chassis and fix the screws to secure firmly.

Important

If the HDD amount is less than four, you do not need to install the HDD bracket.

When there is a bracket, please make sure the installation direction of HDDs is the same.

1.5 Front Panel

1.5.1 1U Series

This series product front panel is shown as in Figure 1-1.

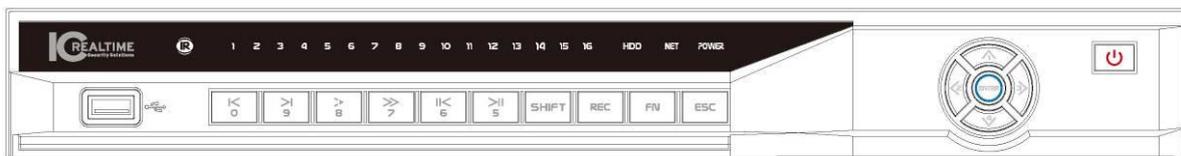


Figure 1-1

Please refer to the following sheet for front panel button information.

Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down DVR.
Shift	Shift	In textbox, click this button to switch between numeral, English(Small/Capitalized),donation and etc.
Up/1 Down/4		Activate current control, modify setup, and then move up and down.
		Increase/decrease numeral.
		Assistant function such as PTZ menu.
Left/2 Right/3		In text mode, input number 1/4 (English character G/H/I)
		Shift current activated control, When playback, click these buttons to control playback bar. In text mode, input number 2(English character A/B/C) /3(English character D/E/F)
ESC	ESC	Go to previous menu, or cancel current operation.

		When playback, click it to restore real-time monitor mode.
Enter	ENTER	Confirm current operation
		Go to default button
		Go to menu
Record	REC	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.
Slow play/8		Multiple slow play speeds or normal playback. In text mode, input number 8 (English character T/U/V).
Assistant	Fn	One-window monitor mode, click this button to display assistant function: PTZ control and image color.
		Backspace function: in numeral control or text control, press it for 1.5seconds to delete the previous character before the cursor.
		In motion detection setup, working with Fn and direction keys to realize setup.
		In text mode, click it to switch between numeral, English character(small/capitalized) and etc.
		Realize other special functions.
Fast play/7		Various fast speeds and normal playback. In text mode, input number 7 (English character P/Q/R/S).
Play previous/0		In playback mode, playback the previous video In text mode, input number 0.
Reverse/Pause/6		In normal playback or pause mode, click this button to reverse playback In reverse playback, click this button to pause playback. In text mode, input number 6 (English character M/N/O)
Play Next/9		In playback mode, playback the next video In menu setup, go to down ward of the dropdown list. In text mode, input number 9 (English character W/X/Y/Z)
Play/Pause /5		In normal playback click this button to pause playback In pause mode, click this button to resume playback. In text mode, input number 5(English character J/K/L).
USB port		To connect USB storage device, USB mouse.
Network abnormal indication light	Net	Network error occurs or there is no network connection, the light becomes red to alert you.
HDD abnormal indication light	HDD	HDD error occurs or HDD capacity is below specified threshold value, the light becomes red to alert you.
Record light	1-16	System is recording or not. It becomes on when system is recording.

IR Receiver	IR	It is to receive the signal from the remote control.
Alarm indication light	Alarm	Here you can view there is external alarm input or not. The light becomes on when there is an external alarm. The light become off when the external alarm stops.

1.5.2 1.5U Series

The front panel is shown as in Figure 1-2.



Figure 1-2

Please refer to the following sheet for front panel button information.

Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down DVR.
USB port		To connect USB storage device, USB mouse.
Up/Down		Activate current control, modify setup, and then move up and down.
		Increase/decrease numeral.
		Assistant function such as PTZ menu.
		Input number 1/4.
Left/Right		Shift current activated control, and then move left and right.
		When playback, click these buttons to control playback bar.
		Input number 2/3.
Enter	ENTER	Confirm current operation
		Go to default button
		Go to menu
Reverse/Pause		In normal playback or pause mode, click this button to reverse Playback Input number 5.
Play/Pause		In normal playback click this button to pause playback In pause mode, click this button to resume playback. Input number 6.
Slow play		Multiple slow play speeds or normal playback. Input number 8.
Fast play		Various fast speeds and normal playback. Input number 7.
Play previous		In playback mode, playback the previous video. Input number 9.

Play Next	▶	In playback mode, playback the next video Input number 0.
ESC	ESC	Go to previous menu, or cancel current operation.
		When playback, click it to restore real-time monitor mode.
Assistant	Fn	One-window monitor mode, click this button to display assistant function: PTZ control and image color.
		Backspace function: in numeral control or text control, press it for 1.5 seconds to delete the previous character before the cursor.
		In motion detection setup, working with Fn and direction keys to realize setup.
		In text mode, click it to switch between numeral, English character(small/capitalized) and etc.
		In HDD management interface, you can click it to switch HDD record information and other information (Menu prompt)
Shift	↑	Realize other special functions.
Record	REC	In textbox, click this button to switch between numeral, English(Small/Capitalized),donation and etc.
Remote control indication light	ACT	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.
Status indication light	Status	Remote control indication light
Power indication light	Power	If there is Fn indication light, current status indication light is null.
Record light	1-16	Power indication light
IR Receiver	IR	System is recording or not. It becomes on when system is recording.
CD-ROM button	⏏	It is to receive the signal from the remote control.
		Pop-up or insert the CD.

1.5.3 2U Series

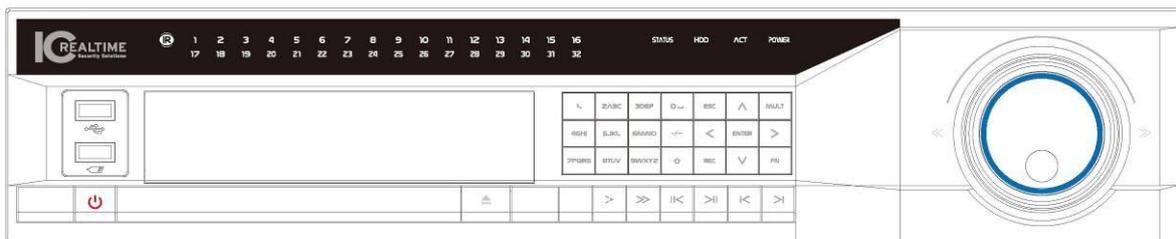


Figure 1-3

Please refer to the following sheet for front panel button information.

Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down DVR.
Number and Character	0	In text mode, input number 0. It is the space button.
	1,.	In text mode, input number 1 and denotation.
	2ABC	In text mode, input number 2(English character A/B/C)
	3DEF	In text mode, input number 3(English character D/E/F)
	4GHI	In text mode, input number 4 (English character G/H/I)
	5JKL	In text mode, input number 5(English character J/K/L).
	6MNO	In text mode, input number 6 (English character M/N/O)
	7PQRS	In text mode, input number 7 (English character P/Q/R/S).
	8TUV	In text mode, input number 8 (English character T/U/V).
	9WXYZ	In text mode, input number 9 (English character W/X/Y/Z)
	-/--	If you want to input a number more than 10, please click this button and then input.
Shift		In textbox, click this button to switch between numeral, English(Small/Capitalized),donation and etc.
Up Down		Activate current control, modify setup, and then move up and down.
		Increase/decrease numeral.
		Assistant function such as PTZ menu.
Left Right		Shift current activated control,
		When playback, click these buttons to control playback bar.
ESC	ESC	Go to previous menu, or cancel current operation.
		When playback, click it to restore real-time monitor mode.
Enter	ENTER	Confirm current operation
		Go to default button
		Go to menu
Record	REC	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.
Window switch	Mult	Click it to switch one-window/multiple-window.
Slow play/8		Multiple slow play speeds or normal playback.

Assistant	Fn	One-window monitor mode, click this button to display assistant function: PTZ control and image color.
		Backspace function: in numeral control or text control, press it for 1.5seconds to delete the previous character before the cursor.
		In motion detection setup, working with Fn and direction keys to realize setup.
		In text mode, click it to switch between numeral, English character(small/capitalized) and etc.
		Realize other special functions.
Fast play	▶▶	Various fast speeds and normal playback.
Play previous	◀	In playback mode, playback the previous video
Reverse/Pause	◀	In normal playback or pause mode, click this button to reverse playback In reverse playback, click this button to pause playback.
Play Next	▶	In playback mode, playback the next video In menu setup, go to down ward of the dropdown list.
Play/Pause	▶	In normal playback click this button to pause playback In pause mode, click this button to resume playback.
USB port		To connect USB storage device, USB mouse.
Status indication light	Status	If there is Fn indication light, current status indication light is null.
HDD abnormal indication	HDD	HDD error occurs or HDD capacity is below specified threshold value, the light becomes red to alert you.
Remote control indication light	ACT	Remote control indication light
Power indication light	Power	Power indication light
Record light	1-32	System is recording or not. It becomes on when system is recording.
IR Receiver	IR	It is to receive the signal from the remote control.
Shuttle(outer ring)		In real-time monitor mode it works as left/right direction key. Playback mode, counter clockwise to forward and clock wise to backward.

Jog(inner dial)		Up/down direction key. Playback mode, turn the inner dial to realized frame by frame playback. (Only applies to some special versions.)
CD-ROM button		Pop-up or insert the CD.

1.6 Rear Panel

1.6.1 1U Series

The standard 1U series product rear panel is shown as below. See Figure 1-4 through Figure 1-6 .

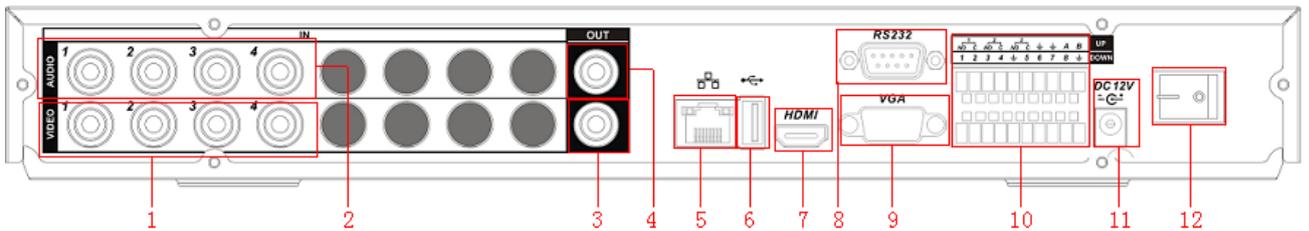


Figure 1-4 4-channel

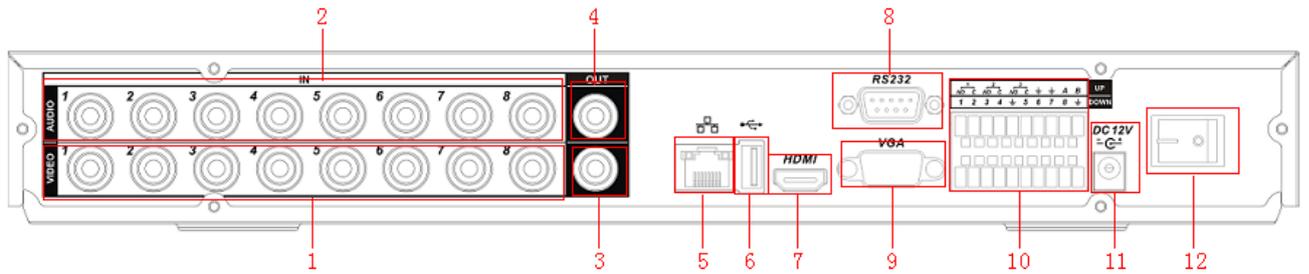


Figure 1-5 8-channel

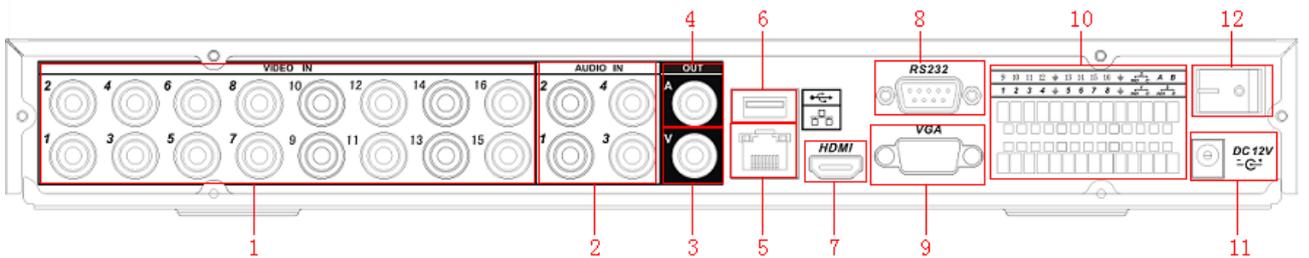


Figure 1-6 16-channel

Please refer to the following sheet for detailed information.

1	Video input
2	Audio input
3	Video CVBS output
4	Audio output
5	Network port
6	USB port
7	HDMI port
8	RS232 port
9	Video VGA output
10	Alarm input/alarm output/RS485 port
11	Power input port
12	Power button

1.6.2 1.5U Series

This series DVR rear panel is shown as below. See Figure 1-7.

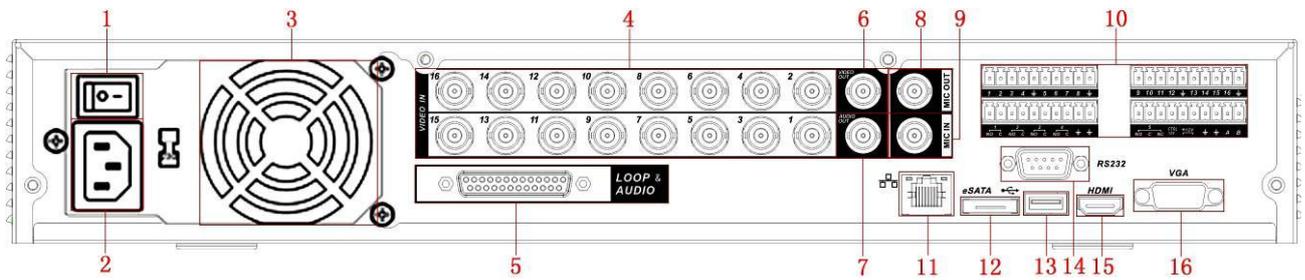


Figure 1-7

Please refer to the following sheet for detailed information.

1	Power button
2	Power input port
3	Fan
4	Video input
5	Audio input/matrix video output/loop video output
6	Video CVBS output
7	Audio output
8	Bidirectional talk input port
9	Bidirectional talk output port
10	Alarm input/alarm output/RS485 port
11	Network port
12	eSATA port
13	USB port
14	RS232 port
15	HDMI port
16	Video VGA output

1.6.3 2U Series

The 32-channel series DVR rear panel is shown as below. See Figure 1-8.

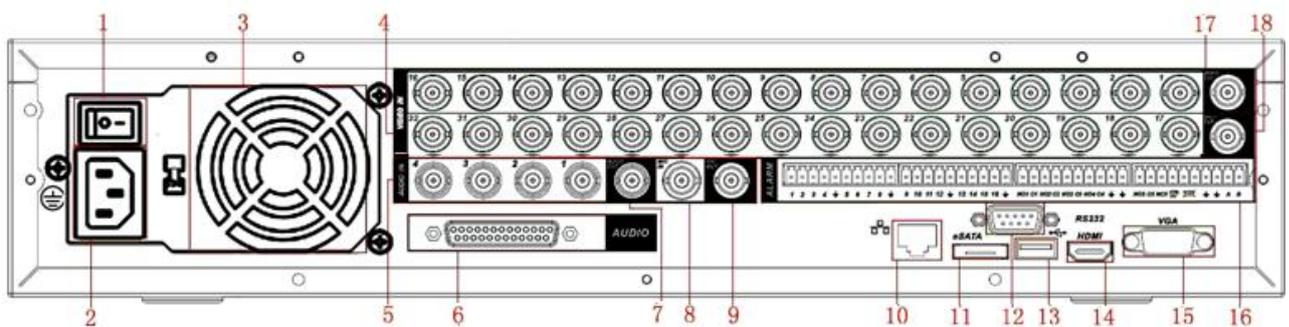


Figure 1-8

Please refer to the following sheet for detailed information.

1	Power button
2	Power input port
3	Fan
4	1-32 channel video output
5	1 st to 4 th -channel audio input
6	DB25 port (5 th to 16 th -channel audio input port)
7	Audio output

8	Bidirectional talk input port
9	Bidirectional talk output port
10	Network port
11	eSATA port
12	RS232 port
13	USB port
14	HDMI port
15	Video VGA output
16	Alarm input/alarm output/RS485 port
17	Video CVBS output
18	Video matrix output

When connect the Ethernet port, please use crossover cable to connect the PC and use the straight cable to connect to the switcher or router.

1.7 Connection Sample

1.7.1 1U series

Please refer to Figure 1-9 for standard 1U series product connection sample.

The following figure is based on one 8-channel series.

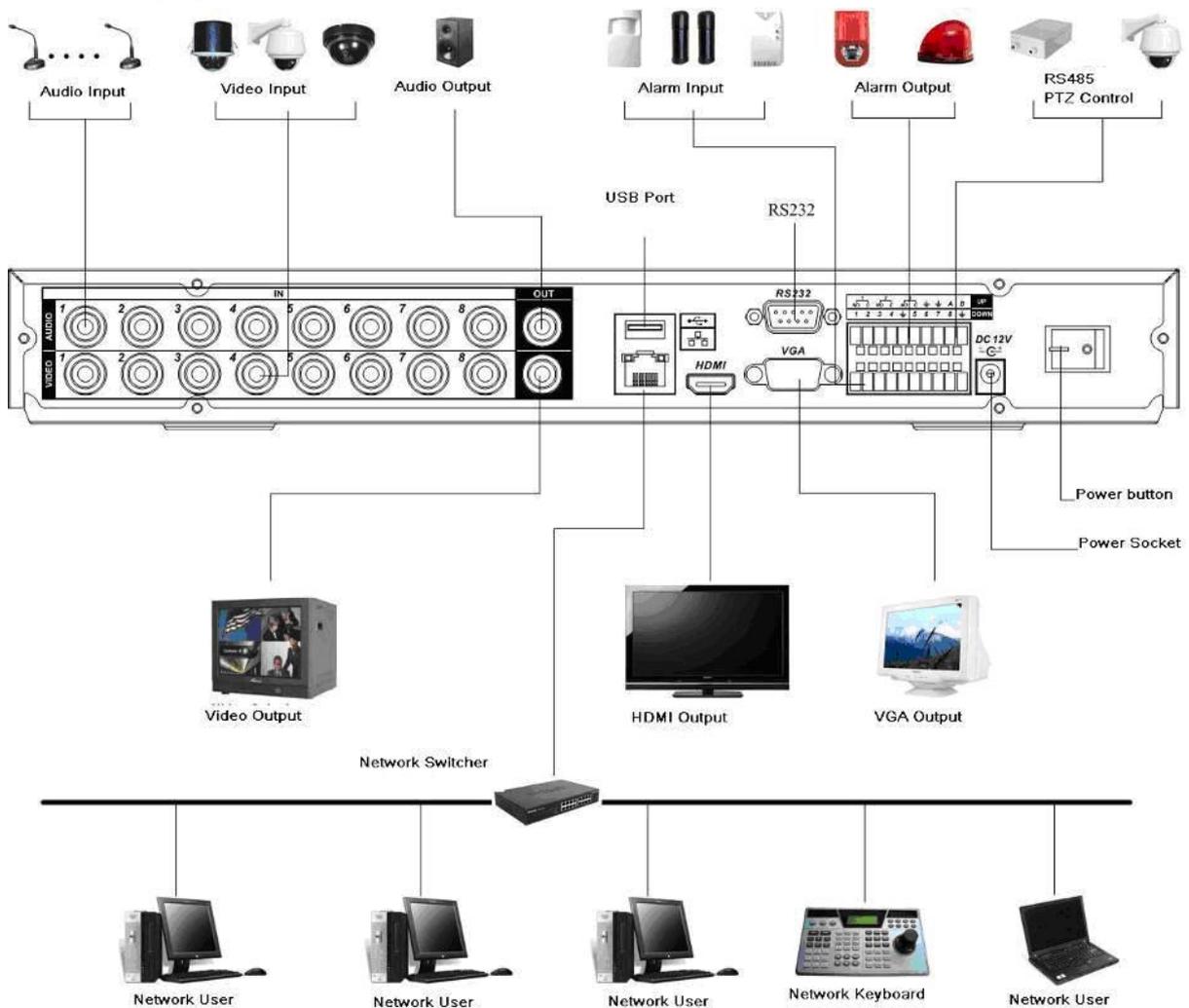


Figure 1-9

1.7.2 1.5U Series

Please refer to Figure 1-10 for connection sample.

The following figure is based on the 16-channel series product.

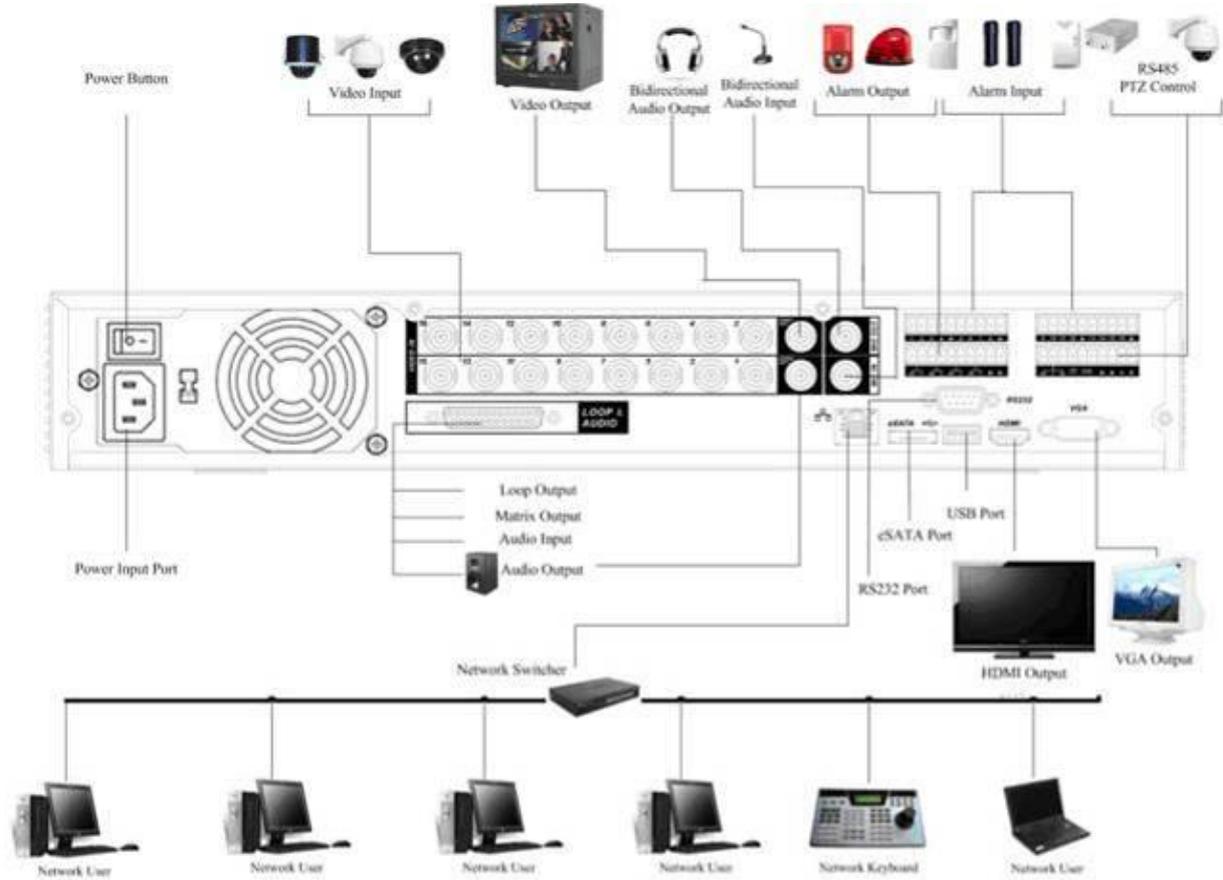


Figure 1-10

1.7.3 2U Series

Please refer to Figure 1-11 for connection sample.

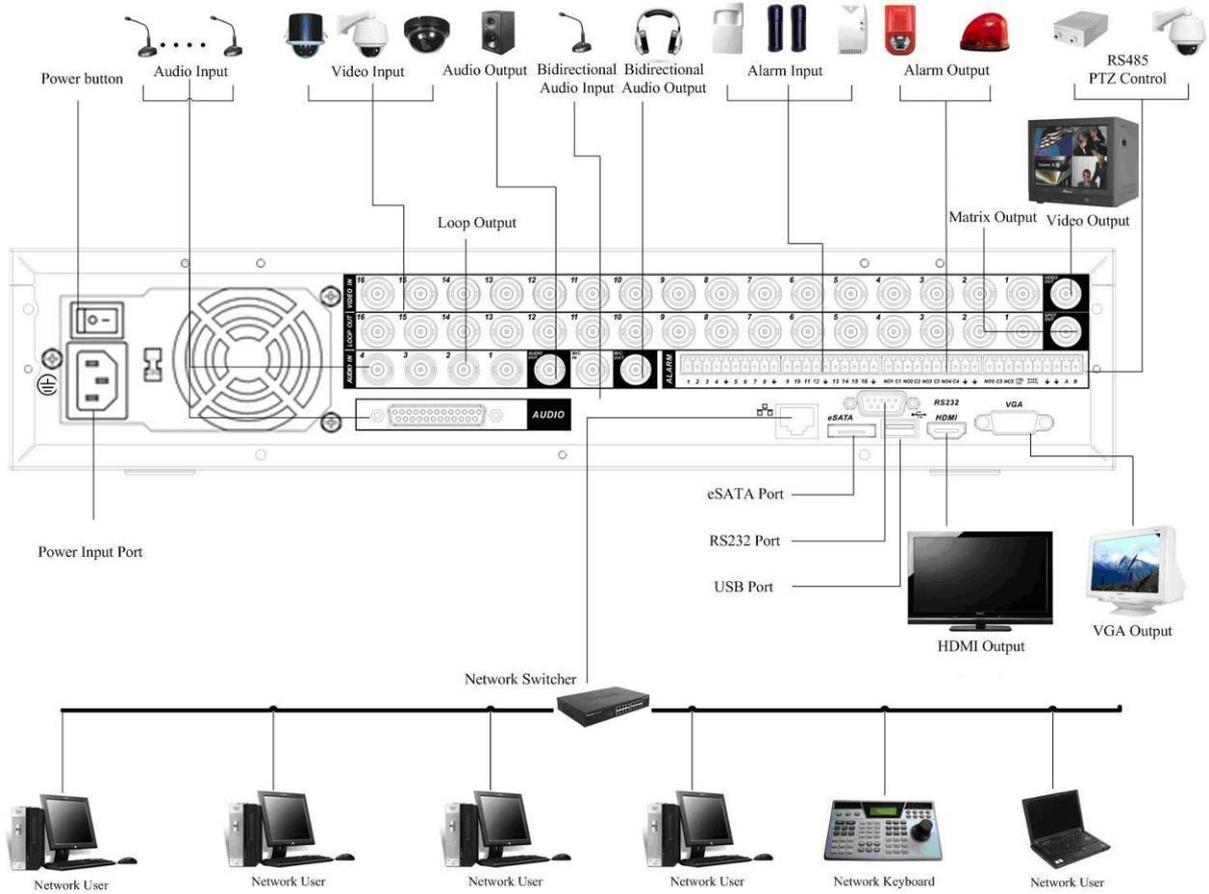


Figure 1-11

1.8 Alarm Input and Output Connection

Important

Please refer to the specifications for the alarm input and output channel amount. Do not merely count the alarm input and out channel amount according to the ports on the rear panel.

Please refer to the following three figures for detailed information. Please note one series product does not support alarm function at all. There are two alarm input types for you to select: normal open (NO) and normal close (NC).

1.8.1 Alarm Input and Output Details

One type of the alarm port is shown as in Figure 1-12.

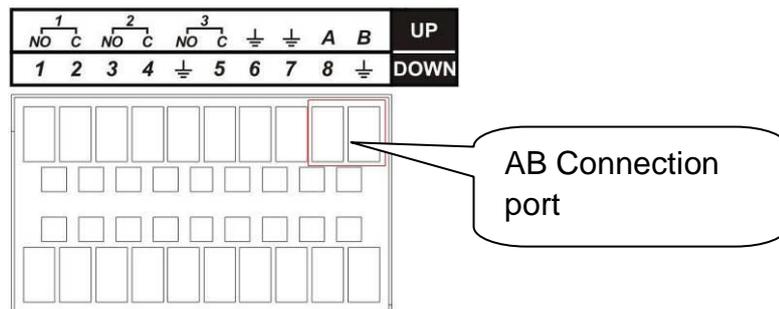


Figure 1-12

You can refer to the following sheet for alarm input and output information.

Parameter	Grounding Alarm
	Ground line
Alarm Input	1, 2, ..., 8. It becomes valid in low voltage.
1-NO C, 2-NO C, 3-NO C	Three NO activation outputs.
485 A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect 120Ω between A/B cables if there are too many PTZ decoders.

One type of the alarm port is shown as in Figure 1-13.

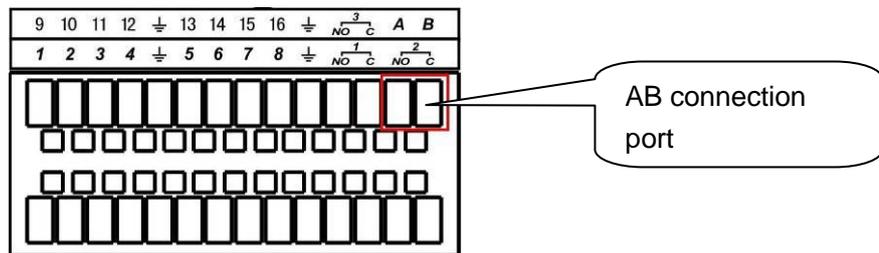


Figure 1-13

You can refer to the following sheet for alarm input and output information.

Parameter	Grounding Alarm
	Ground line
Alarm Input	1, 2, ..., 16.. It becomes valid in low voltage.
1-NO C, 2-NO C, 3-NO C	Three NO activation outputs.
485 A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect 120Ω between A/B cables if there are too many PTZ decoders.

One type of the alarm port is shown as in Figure 1-14.

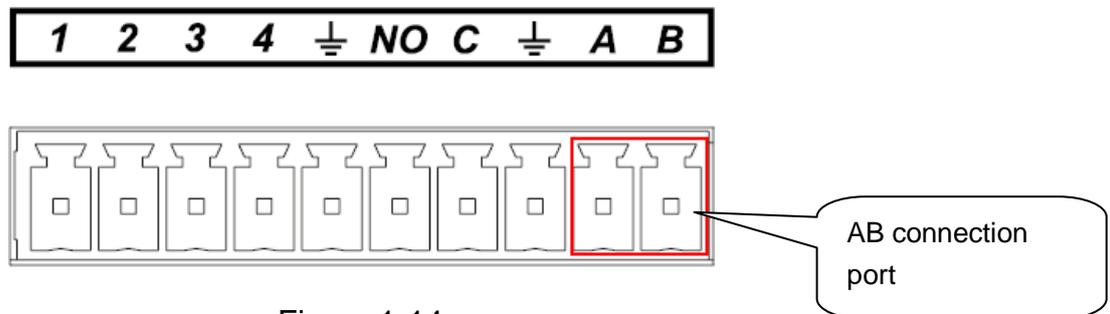


Figure 1-14

You can refer to the following sheet for alarm input and output information.

Parameter	Grounding Alarm
	Ground line

Alarm Input	1, 2, 3, 4. It becomes valid in low voltage.
NO C	One NO activation output.
485 A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect 120Ω between A/B cables if there are too many PTZ decoders.

1.8.2 Alarm Input Port

Please refer to the following sheet for more information.

- Normal open or Normal close type.
- Please parallel connect COM end and GND end of the alarm detector (Provide external power to the alarm detector).
- Please parallel connect the Ground of the DVR and the ground of the alarm detector.
- Please connect the NC port of the alarm sensor to the DVR alarm input(ALARM)
- Use the same ground with that of DVR if you use external power to the alarm device.

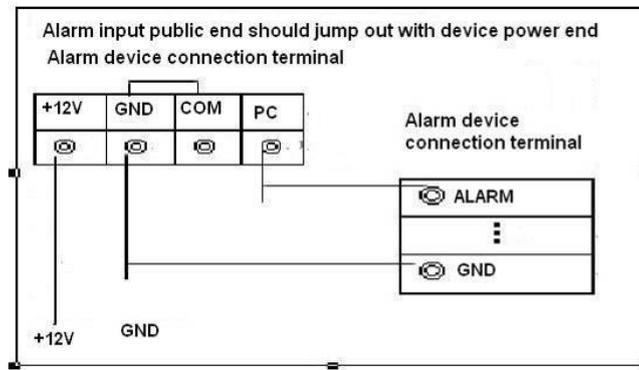


Figure 1-15

1.8.3 Alarm Output Port

- Provide external power to external alarm device.
- To avoid overloading, please read relay parameters sheet in the *User's Manual* carefully.
- RS485 A/B cable is for the A/B cable of the PTZ decoder.

2 Overview of Navigation and Controls

Important

- Slight difference may be found in the interface. All the interfaces listed below are based on the 1U series product.
- Some series product may not support all the functions listed below.

Before operation, please make sure:

- You have properly installed HDD and connect all the cable connections.
- The provided input power and the device power are matched.
- The external power shall be DC +12V.
- Always use the stable current, if necessary UPS is a best alternative measure.

2.1 Login, Logout & Main Menu

2.1.1 Login

After system booted up, default video display is in multiple-window mode.

Click Enter or left click mouse, you can see the login interface. See Figure 2-1.

System consists of four accounts:

- **Username:** admin. **Password:** admin. (administrator, local and network)
- **Username:** 888888. **Password:** 888888. (administrator, local only)
- **Username:** 666666. **Passwords:** 666666(Lower authority user who can only monitor, playback, backup and etc.)
- Username: default. Password: default(hidden user)

You can use USB mouse, front panel, remote control (not included in the accessory bag) or

keyboard to input. About input method: Click  to switch between numeral, English character (small/capitalized) and denotation.

Note:

For security reason, please modify password after you first login.

Within 30 minutes, three times login failure will result in system alarm and five times login failure will result in account lock!



Figure 2-1

2.1.2 Main Menu

After you logged in, the system main menu is shown as below. See Figure 2-2.

There are total six icons: search, information, setting, backup, advanced and shutdown.

You can move the cursor to highlight the icon, and then double click mouse to enter the sub-menu.

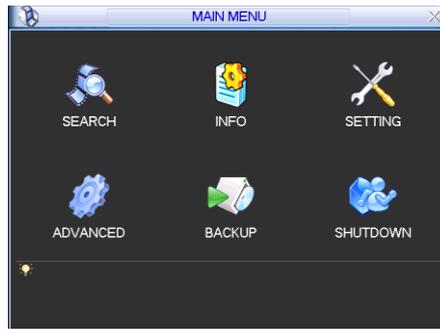


Figure 2-2

2.1.3 Logout

There are two ways for you to log out.

The first one is from menu option:

In the main menu, click shutdown button, you can see an interface is shown as below. See Figure 2-3.

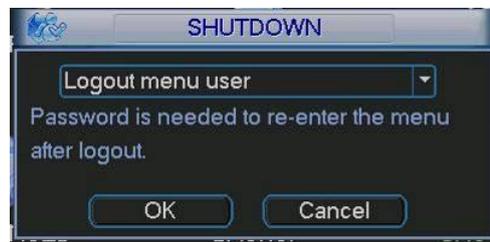


Figure 2-3

There are several options for you. See Figure 2-4.

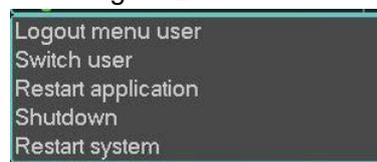


Figure 2-4

The other ways is to press power button on the front panel for at least 3 seconds, system will stop all operations. Then you can click the power button in the front panel to turn off the DVR. Please note, before you replace the HDD, do remember shutting down the device and unplug the power cable.

2.1.4 Auto Resume after Power Failure

The system can automatically backup video and resume previous working status after power failure.

2.2 Live Viewing

After you logged in, the system is in live viewing mode by default. You can see system date, time and channel name. If you want to change system date and time, you can refer to general settings (Main Menu->Setting->General). If you want to modify the channel name, please refer to the display settings (Main Menu->Setting->Display)

1		Recording status	3		Video loss
2		Motion detection	4		Monitor lock

2.3 Schedule

Note:

You need to have proper rights to implement the following operations. Please make sure the HDDs have been properly installed.

After the system booted up, it is in default 24-hour regular mode. You can set record type and time in schedule interface.

In the main menu, from Setting to Schedule, you can go to schedule menu. See Figure 2-5. There are total six periods.

- Channel: Please select the channel number first. You can select “all” if you want to set for the whole channels.
- Week day: There are eight options: ranges from Saturday to Sunday and all.
- Pre-record: System can pre-record the video before the event occurs into the file. The value ranges from 1 to 30 seconds depending on the bit stream .
- Snapshot: You can enable this function to snapshot image when alarm occurs.
- Record types: There are four types: regular, motion detection (MD), Alarm, MD & alarm.

Please highlight icon  to select the corresponding function. After completing all the setups please click save button, system goes back to the previous menu.

At the bottom of the menu, there are color bars for your reference. Green color stands for regular recording, yellow color stands for motion detection and red color stands for alarm recording. The white means the MD and alarm record is valid. Once you have set to record when the MD and alarm occurs, system will not record neither motion detect occurs nor the alarm occurs.



Figure 2-5

2.4 Manual Record

Note:

Please make sure you have the record operation right and you have properly installed the formatted HDD.

You can right click mouse or in the main menu, from Advanced->Manual Record to go to record interface.

There are three statuses: schedule/manual/stop. Highlight icon “○” to select corresponding channel. See Figure 2-6.

- Manual: The highest priority. After manual setup, all selected channels will begin ordinary recording.
- Schedule: Channel records as you have set in recording setup (Main Menu->Setting->Schedule)
- Stop: All channels stop recording.



Figure 2-6

2.5 Encode

Encode interface is shown as in Figure 2-7.

- Channel: Select the channel you want.
- Compression: System supports H.264.
- Resolution: System supports various resolutions, you can select from the dropdown list. For this model, main stream supports D1/CIF/QCIF. Please note the resolution may vary due to different channels. The extra stream supports QCIF only.
- Frame rate: It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.

Note:

Model		Note
1U series	4-channel	Main stream: Channel 1:D1/CIF/QCIF(1-25/30fps) Channel 2-4: CIF/QCIF(1-25/30fps),D1(1-6/7fps) Extra stream: CIF(1-25/30fps),CIF(1-6/7fps)
	8-channel	Main stream: Channel 1:D1/CIF/QCIF(1-25/30fps) Channel 2-8: D1(1-6/7fps), CIF/QCIF(1-25/30fps) Extra stream: CIF(1-25/30fps),CIF(1-6/7fps)
	16-channel	Main stream: Channel 1&9:D1/CIF/QCIF(1-25/30fps) Other channels :D1(1-6/7fps), CIF/QCIF(1-25/30fps) Extra stream: CIF(1-25/30fps),CIF(1-6/7fps)
1.5U Series	4-channel	Main stream: Channel 1:D1/CIF/QCIF(1-25/30fps) Channel 2-4: CIF/QCIF(1-25/30fps),D1(1-6/7fps) Extra stream: CIF (1-25/30fps).
	8-channel	Main stream: Channel 1:D1/CIF/QCIF(1-25/30fps) Channel 2-8: D1(1-6/7fps), CIF/QCIF(1-25/30fps) Extra stream: CIF (1-25/30fps).
	16-	Main stream:

	channel	Channel 1&9:D1/CIF/QCIF(1-25/30fps) Other channels :D1(1-6/7fps), CIF/QCIF(1-25/30fps) Extra stream: CIF (1-25/30fps).
2U 32-ch Series	32-channel	The main stream supports: D1 704x576/704x480 (6f/s, when other channels' resolution are all CIF, 1st /9th /17th /25th -channel can support 25f/s.), CIF 352x288/ 352x240, QCIF 176x144/176x120. Extra stream resolution: QCIF 176x144/176x120

- Bit rate type: system supports two types: CBR and VBR. In VBR mode, you can set video quality.
- Quality: There are six levels ranging from 1 to 6. The sixth level has the highest image quality.
- Video/audio: you can enable or disable the video/audio. Please note the video is enabled for main stream by default. For extra stream, please enable video first and then enable audio.
- Snapshot: Click snapshot button, you can see it contains the four items: mode/image size/image quality/snapshot frequency. Please refer to chapter 2.3.3 for detailed information.

Please highlight icon  to select the corresponding function.

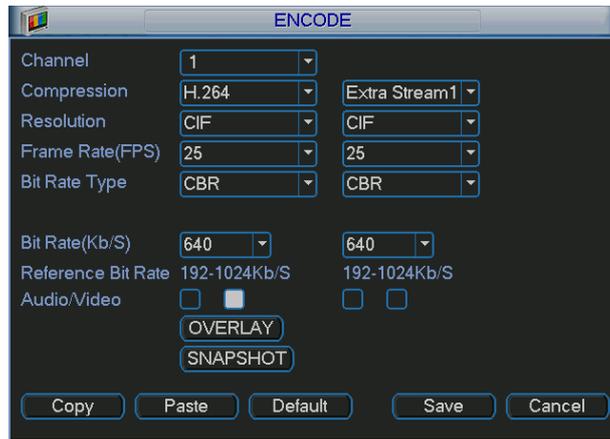


Figure 2-7

2.5.1 Snapshot

2.5.1.1 Schedule Snapshot

In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency.

In General interface please input upload interval.

In Schedule interface, please enable snapshot function.

Please refer to the following figure for detailed information. See Figure 2-8.

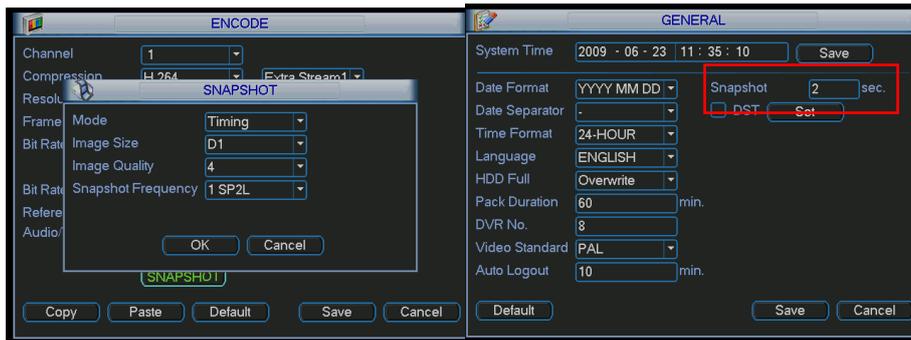


Figure 2-8

2.5.1.2 Activation Snapshot

Please follow the steps listed below to enable the activation snapshot function. After you enabled this function, system can snapshot when the corresponding alarm occurred.

- In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency.
- In General interface please input upload interval.
- In Detect interface please enable snapshot function for specified channels. Or in Alarm interface please enable snapshot function for specified channels.

Please refer to the following figure for detailed information. See Figure 2-9.

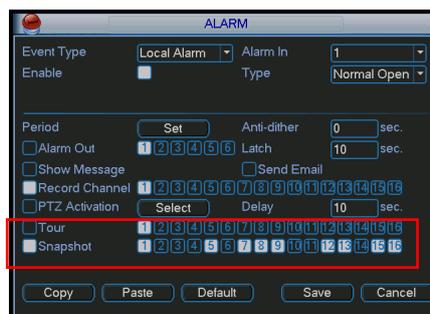
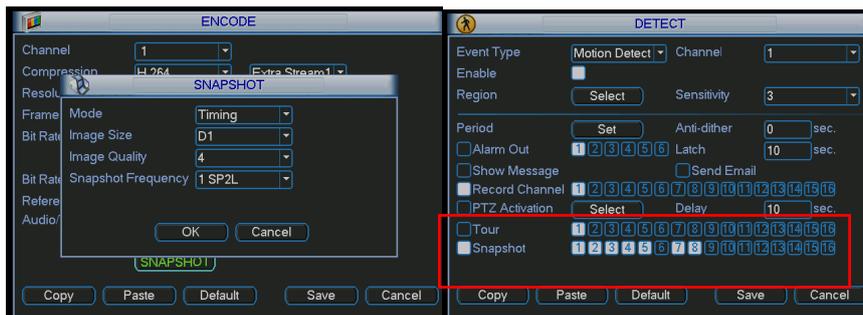


Figure 2-9

2.5.1.3 Priority

Please note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when alarm occurs, and otherwise system just operates the schedule snapshot.

2.5.2 Image FTP

In Network interface, you can set FTP server information. Please enable FTP function and then click save button. See Figure 2-10. Please refer to the *User's Manual* included in the resource CD for detailed information.

Please boot up corresponding FTP server.

Please enable schedule snapshot or activation snapshot (Chapter 2.3.3) and then system can upload the image file to the FTP server.

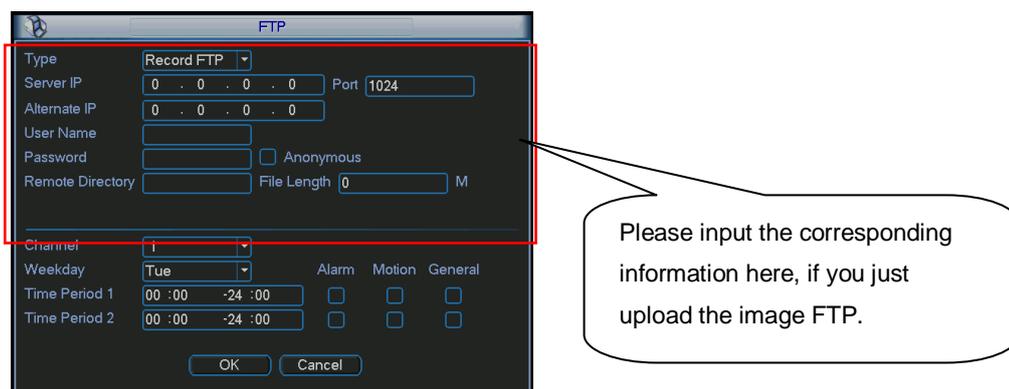


Figure 2-10

2.6 Search and Playback

Click search button in the main menu, search interface is shown as below. See Figure 2-11.

Usually there are three file types:

- R: Regular recording file.
- A: External alarm recording file.
- M: Motion detection recording file

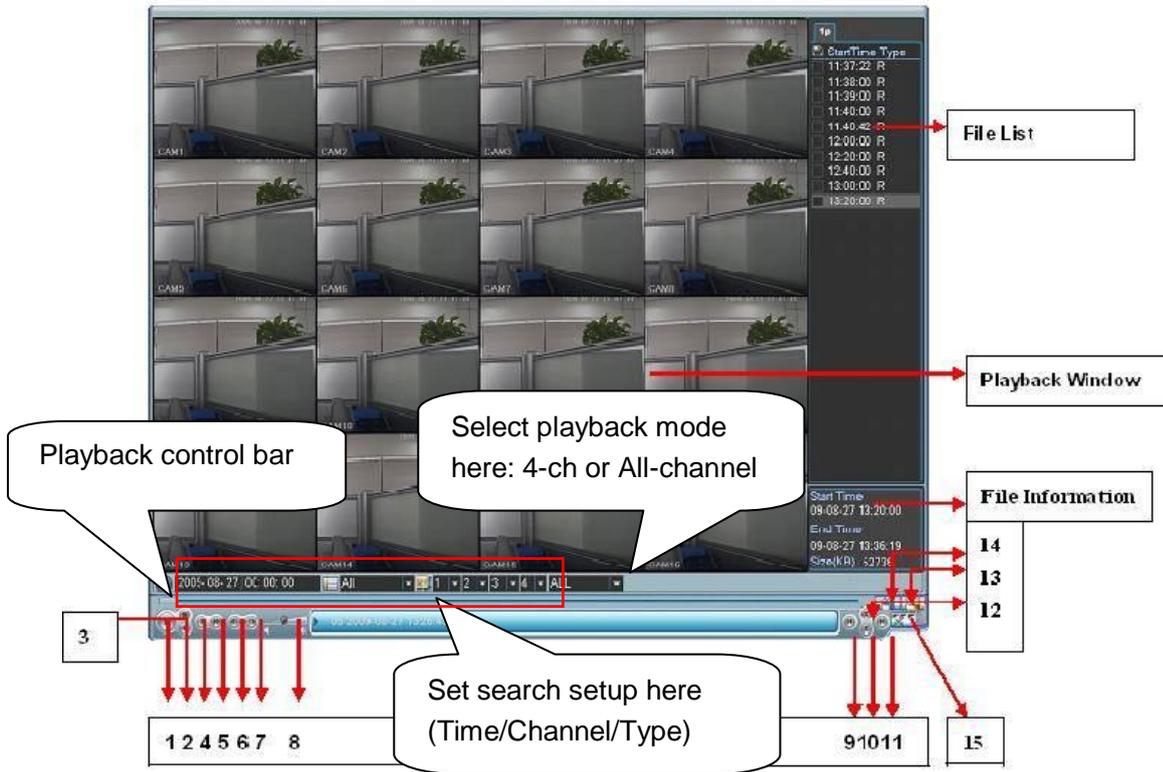


Figure 2-11

Please refer to the following sheet for more information.

Serial Number	Function
1	Play
2	Backward
3	Stop
4	Slow play
5	Fast play
6	Previous frame
7	Next frame
8	Volume
9	Previous file
10	Next channel
11	Next file
12	Previous channel
13	Search
14	Backup
15	Clip

2.6.1 Basic Operation

2.6.1.1 Playback Operation

There are various search modes: video type, channel number or time. The system can max display 128 files in one screen. You can use page up/down button to view if there are more than one page.

Select the file name and double click mouse (or click enter button), you can view file content.

2.6.1.2 Playback Mode

There are two playback modes: 4-ch and all-channel. In 4-ch playback mode, you can select the 1/2/3/4-ch playback according to your requirement. In all-channel mode, system can playback in full channels. Please note the 4-ch series product does not have all-channel playback mode.

2.6.1.3 Accurate playback

Input time (h/m/s) in the time column and then click playback button, system can operate accurate playback.

2.6.1.4 Synchronized playback function when playback

During playback process, click numeral key, system can switch to the corresponding channel video of the same time.

2.6.1.5 Digital zoom

When the system is in full-screen playback mode, drag your mouse in the screen to select a section and then left click mouse to realize digital zoom. You can right click mouse to exit.

2.6.1.6 File backup and clip

System supports backup operation during search. You can draw a √ before file name (multiple choices). Then click backup button (Button 14 in Figure 2-11).

If you want to clip a period of file, please playback the original file first. Click the  (Button 15 in Figure 2-11) at the start point (that is your new file beginning point). Drag the file to the end point (that is your new file end point) and then click the  again. Click the backup button (Button 14 in Figure 2-11) to save your current new file.

2.6.1.7 Calendar

Click calendar icon  in Figure 2-11, system pops up a calendar for your reference. See Figure 2-12.

The highlighted date means there are record files in that day. You can click blue date to view file list.

In the following interface you can see there are video files in June 13th and 14th. Double click the date to view file list.



Figure 2-12

2.6.1.8 Slow playback and fast playback

Please refer to the following sheet for slow play and fast playback function.

Button	Illustration	Remarks
Fast play button ►►	In playback mode, click this button to switch between various fast play modes such as fast play 1, fast play 2 and more.	Frame rate may vary due to different versions.
Slow play button ►	In playback mode, click this button to switch between various slow play modes such as slow play 1 or slow play 2.	
Play/Pause ►	In slow playback mode, click this button to switch between play/pause modes.	
Previous/next	In playback mode, you can click ◀ and ▶ to view previous or next video in current channel.	

2.6.1.9 Backward playback and frame by frame playback

Button	Illustration	Remarks
Backward play: ◀ in playback interface.	In normal playback mode, left click backward play button◀, system begins backward playback. Double click backward play button again, system goes to pause mode.	When system is in backward play or frame by frame playback mode, you can click play button►/ to go to normal playback.
Manual playback frame by frame.	Click pause button in normal playback mode, you can use ◀ and ▶ to view frame by frame.	

Note:

All the operations here (such as playback speed, channel, time and progress) have relationship with hardware version. Some series DVRs do not support some functions or playback speeds.

2.7 Network Setup

Here is for you to input network information. See Figure 2-13.

- IP address: Here you can input IP address.
- DHCP: It is auto search IP function. When enable DHCP function, you can not modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as 0. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you can not modify IP/Subnet mask /Gateway.
- TCP port: Default value is 37777.
- UDP port: Default value is 37778.
- HTTP port: Default value is 80.
- Max connection: system support maximal 20 users. 0 means there is no connection limit.
- Transfer mode: Here you can select the priority between fluency/video qualities.
- Network download: System can process the downloaded data first if you enable this function.
- Advanced setting: Please refer to the *user's manual* included in the resource CD for detailed information.

After completing all the setups please click save button, system goes back to the previous menu.

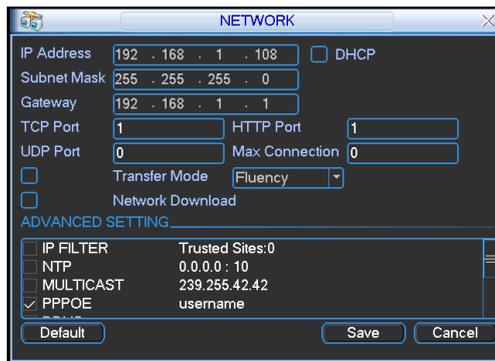


Figure 2-13

2.8 Pan/Tilt/Zoom

Please note:

- Slight difference may be found in the user's interface, due to various protocols.
- Please make sure the speed domes A/B cables are properly connected to the A/B ports of DVR.
- You have properly set PTZ information.
- Please switch camera monitor channel to current window.

2.8.1 PTZ Setup

The pan/tilt/zoom setup includes the following items. Please select channel first. See Figure 2-14.

- Protocol: Select corresponding PTZ protocol such as PELCOD.
- Address: Input corresponding PTZ address.
- Baud rate: Select baud rate.
- Data bit: Select data bit. Default value is 8.
- Stop bit: Select stop bit. Default value is 1.
- Parity: There are three choices: none/odd/even. Default value is none.



Figure 2-14

After completing all the setups please click save button, system goes back to the previous menu.

2.8.2 PTZ Operation

In one window display mode, right click mouse (click "Fn" Button in the front panel or click "Fn" key in the remote control). The interface is shown as in Figure 2-15.



Figure 2-15

Click Pan/Tilt/Zoom, the interface is shown as below. See Figure 2-16.

Here you can set the following items:

- Step: value ranges from 1 to 8.
- Zoom
- Focus
- Iris

Click icon  and  to adjust zoom, focus and iris.



Figure 2-16

In Figure 2-16, please click direction arrows (See Figure 2-17) to adjust PTZ position. There are total 8 direction arrows. Please note if you use remote control, you can use just four directions (Up/down/left/right).

The speed value ranges from 1 to 8.

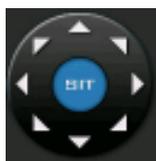


Figure 2-17

2.8.3 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 2-18. Please note, this function needs protocol supported and can only be operated by mouse. Click this key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. It can realize PTZ automatically.



Figure 2-18

Here is a sheet for you reference.

Name	Function key	function	Shortcut key	Function key	function	Shortcut Key
Zoom		Near	▶		Far	▶▶
Focus		Near	◀		Far	▶
Iris		close	◀		Open	▶

You can click set button in Figure 2-16 (or click REC button in the front panel) to set preset, tour, and pattern.

You can click page switch button in Figure 2-16 (or click Fn button in the front panel) to call main function.

3 Web Operation

Important

- Slight difference may be found in the interface. All the interfaces listed below are based on the 1U series product.
- Some series product may not support all the functions listed below.

3.1 Network Connection

Before web operation, please check the following items:

- Network connection is right
- DVR and PC network setup is right. Please refer to network setup(main menu->setting->network)
- Use order ping `***.***.***.***`(* DVR IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- System can automatically download latest web control and the new version can overwrite the previous one.
- If you want to un-install the web controls, please run `uninstall webrec2.0.bat` to auto delete the control or you can go to `C:\Program Files\webrec` to delete Single folder.

3.2 Login

Open IE and input DVR address in the address column. For example, if your DVR IP is 10.10.3.16, then please input `http:// 10.10.3.16` in IE address column.

System pops up warning information to ask you whether install `webrec.cab` control or not. Please click yes button.

If you can't download the ActiveX file, please modify your IE security setup.

After installation, the interface is shown as below. See Figure 3-1.

Please input your user name and password.

Default factory name is admin and password is admin.

Note: For security reasons, please modify your password after you first login.

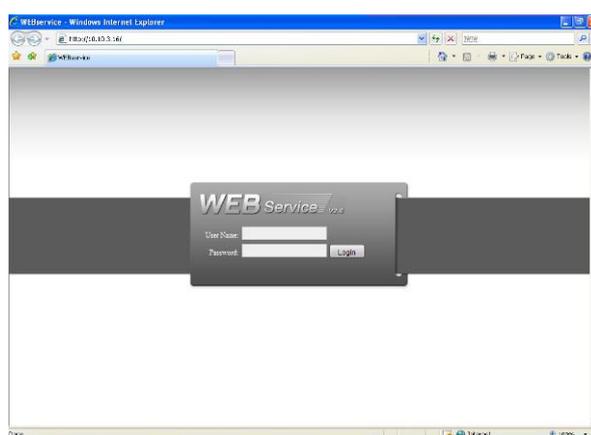


Figure 3-1

3.3 Main Window

After you logged in, you can see the main window. See Figure 3-2.

Click the channel name on the left side; you can view the real-time video.

For detailed operation information, please refer to the *User's Manual* included in the resources CD.

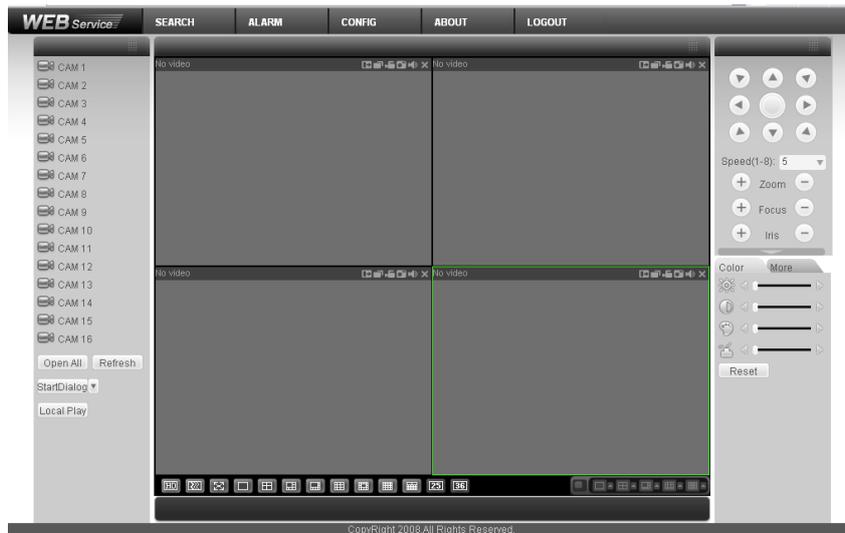


Figure 3-2

4 Appendix Toxic or Hazardous Materials or Elements

Component Name	Toxic or Hazardous Materials or Elements					
	Pb	Hg	Cd	Cr VI	PBB	PBDE
Sheet Metal(Case)	○	○	○	○	○	○
Plastic Parts (Panel)	○	○	○	○	○	○
Circuit Board	○	○	○	○	○	○
Fastener	○	○	○	○	○	○
Wire and Cable/ AC adapter	○	○	○	○	○	○
Packing Material	○	○	○	○	○	○
Accessories	○	○	○	○	○	○

Note

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes

Note

- For detailed operation introduction, please refer to our resource CD included in your package for electronic version of the *User's Manual*.
- This quick start guide is for reference only. Slight difference may be found in the user interface.
- All the designs and software here are subject to change without prior written notice.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website or contact your local service engineer for more information.