NEXXT

SOLUTIONS

XpySeries

I. Introduction

Thanks for purchasing the Nexxt Solutions standalone video surveillance system.
This multi-channel security DVR is an easy to install, easy to setup and easy to use monitoring kit. Upon opening the box, make sure all the items listed below are included in the package:

A. DVR kit

- Eight (8) or four (4) channel H.264 DVR   1 pc
- AC adaptor for DVR and cameras   1 pc
- USB wired mouse   1 pc
- CD ROM with free mobile app and digital user guide 1 pc
- M3.5x5 hard drive screws   4 pcs
- User guide   1 pc

B. XPY-8004-KX and XPY-4004-KX camera kits

- IR CCTV outdoor/indoor security camera   4 pcs
- BNC male to BNC male cable with power connector 4 pcs (20 meters each)
- One-to-five power splitter   1 pc
- One hardware kit per camera   4 sets
  - PA4x25- screws   3 pcs
  - Anchors   3 pcs
  - Drill template   1 pc
  - Wrench   1 pc

C. XPY-4002-KX camera kit

- IR CCTV outdoor/indoor security camera   2 pcs
- BNC male to BNC male cable with power connector 2 pcs (20 meters each)
- One-to-five power splitter   1 pc
- One hardware kit per camera   2 sets
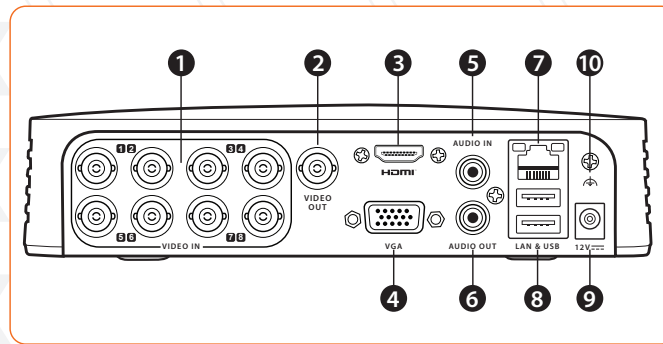 - PA4x25- screws   3 pcs
  - Anchors   3 pcs
  - Drill template   1 pc
  - Wrench   1 pc

II. Front and rear panel description

Front view

Number	Icon	Description
1		The power LED lights solid red when the DVR is plugged in
2		The HDD indicator LED lights red when data is being read from or written to the hard disk drive successfully
3		The network icon blinks blue when the connection is functioning properly

Back view
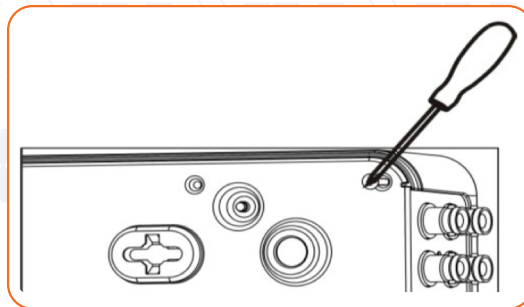

(Diagram based on the 8-channel version)

Number	Item	Description
1	VIDEO IN	BNC jacks for analog video input from 4 or 8 channels, depending on the version
2	VIDEO OUT	BNC jack to connect a compatible screen or monitor for video output
3	HDMI	High-definition jack to connect a compatible screen or monitor for video output
4	VGA	DB15 jack to connect a compatible screen or monitor for video output
5	AUDIO IN	RCA jack for cameras equipped with audio or a microphone
6	AUDIO OUT	Connect a speaker to this RCA jack for amplified audio output
7	LAN PORT	RJ-45 10Mbps/100Mbps Ethernet interface
8	USB PORTS	High-speed interface to connect a mouse and external USB backup devices
9	12V	DC input to connect the supplied 12V power adaptor
10	GND	Ground (needs to be connected when DVR starts up)

III. Hard drive installation

Note: all DVR systems can run and monitor normally without a hard disk, but video recording and playback will not be possible.
The system does not include a **SATA** hard disk drive (HDD). A HDD unit must be purchased separately and installed by the user. To do so, you must follow the procedure described below:
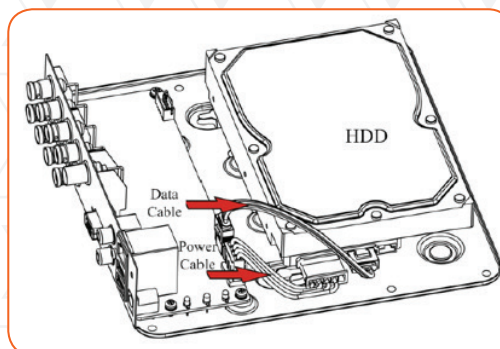
1. Before proceeding with the HDD installation, make sure that the DVR is powered off and that all cables are disconnected from the power source.
2. Use a screwdriver to unfasten the four screws located on the bottom panel of the chassis.

3. Lift the top cover away from the unit to remove it.
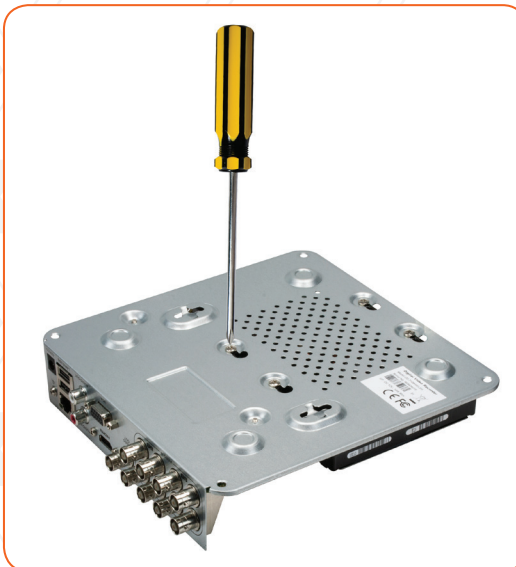

4. Locate the HDD rack in the DVR motherboard.

5. Next, insert the SATA interface plug into the corresponding connector on the hard drive. Then, attach the SATA power plug with the terminal on the HDD unit.

6. Use the supplied four mounting screws to secure the drive to the DVR chassis. To do that, align the drive with the holes on the base of the DVR, and screw them from the bottom.

7. Be careful not to exert too much pressure when tightening the screws in order to secure the drive to the DVR.
8. Replace the cover by sliding it back on, making sure that the edges are perfectly aligned with the screws on the bottom.
9. Gently push the top cover down and fasten it using the same four screws you removed earlier.

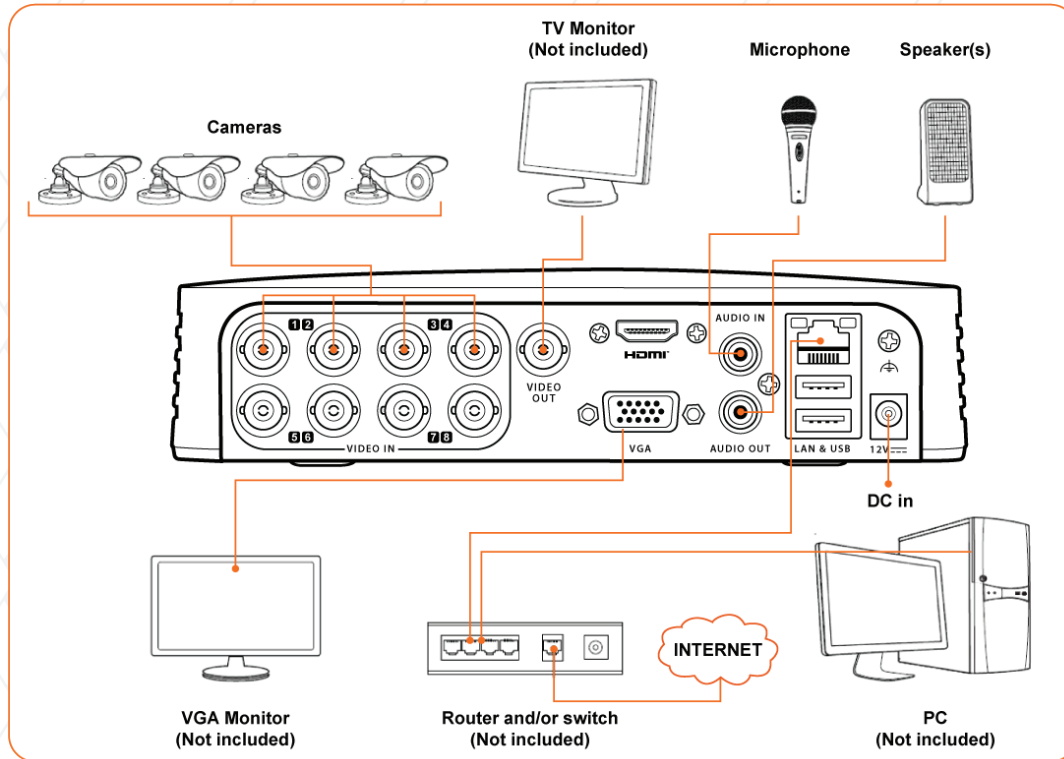## IV. HDD storage calculation chart

The following chart shows an estimation of storage space used, based on recording at one channel for an hour at a fixed bit rate. Please note that this should be used for reference only.

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

V. Hardware installation

1. Choose the optimum location for the DVR. The best place is within a 20m radius from all the cameras and within reach of an available wired internet connection.
2. Proceed with the internet connection and the installation of the user supplied monitor(s) with a BNC, VGA or HDMI connection.
3. If adding speakers, connect them to the audio output (RCA jack) located on the rear panel of the unit.
4. Using the supplied screws and anchors, mount the cameras. For distances over 20m, you must purchase extension cables to cover that extra run. For detailed mounting instructions, please refer to our online manual at www.nexxtsolutions.com.
5. Once you have correctly positioned the cameras in the preferred monitoring location, firmly attach the BNC and power connections of each camera to the terminals of each individual extension cord.

DVR connections –power, video, audio and network

Cameras

TV Monitor (Not included)

Microphone

Speaker(s)

AUDIO IN

HDMI

VIDEO OUT

VIDEO IN

VGA

AUDIO OUT

LAN & USB

12V

DC in

VGA Monitor (Not included)

INTERNET

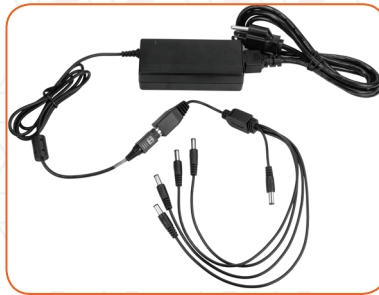**Router and/or switch (Not included)**

PC (Not included)

(Diagram based on the 8-channel version)

6. On the DVR side, attach the BNC cables to the video ports of each camera located on the rear panel of the unit, as marked.

Video

Power

7. Connect one end of the Ethernet cable to the RJ45 port located on the rear panel of the unit, and the other end to an available LAN port on your network or router.
8. Attach the splitter to the supplied AC. Then, connect the power terminals of all cameras and the DVR to the power splitter.

AC adaptor and splitter

9. Now, you can connect the mouse on any of the two USB ports on the rear panel. The mouse is the default tool for navigating through the menus.

10.Finally, plug the AC adaptor to any standard wall outlet to power on the DVR.
Note: We highly recommend the use of an Uninterruptible Power Supply (UPS) in conjunction with the device.
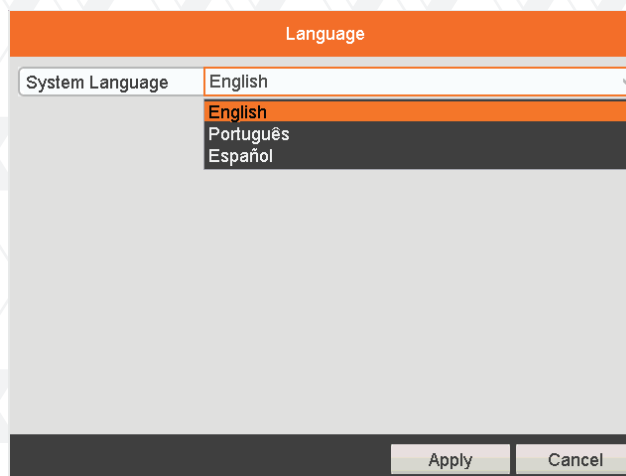
VI. Preliminary steps

When switching on the DVR for the first time, the system will boot up. During this initial process, you will be prompted to enter some basic parameters and network settings. You can either use default values or enter your own settings, based on your system requirements or special needs.

⚠ IMPORTANT! If you are logging into the DVR for the first time, it is essential that you set the device to the correct time and date at this point, to facilitate the search for events based on when they occurred, as well as avoiding confusion by having several recorded files bearing the same date.

VII. Using the setup wizard

The Setup Wizard walks you through some important settings of the device. By default, the Setup Wizard starts once the device has loaded.
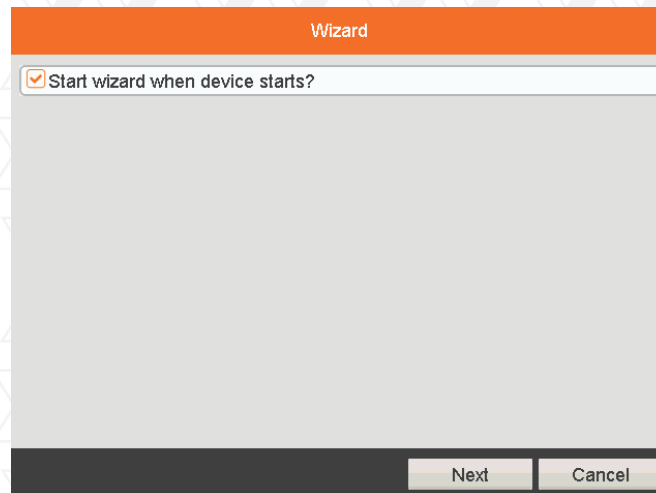
1. **Language:** There are three languages available in the system: English, Portuguese and Spanish. English is the language by default. Click **Apply** to continue.
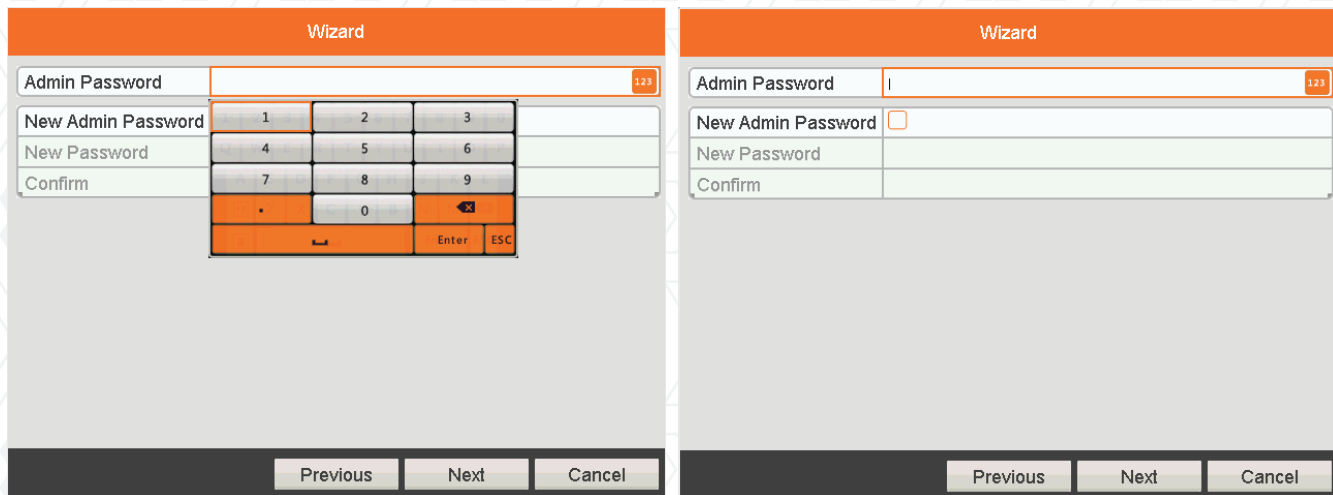
Please note that if you select other language different from the default, the system will prompt you to reboot in order to apply the correct language package.

2. **Start wizard interface:** This box is checked by default, and it is designed to enable the setup wizard when the device starts. If you would like to disable this option, uncheck this box. It is recommended to leave the default configuration unchanged the first time to set the proper settings. Click **Next** to continue with the setup.

3. **Login window:** This option will ask you to enter your credentials. Initially, this is set to **12345** by default. The administrator password can be changed in this step by clicking on the **New Admin Password** checkbox option. If you choose to change it at a later time, you can refer to our online user manual. Click **Next** to enter the date and time settings.

4. **Date and time:** Use this window to set the time zone based on your current location, date format, system date and time. Once done, click **Next** to configure the network settings.

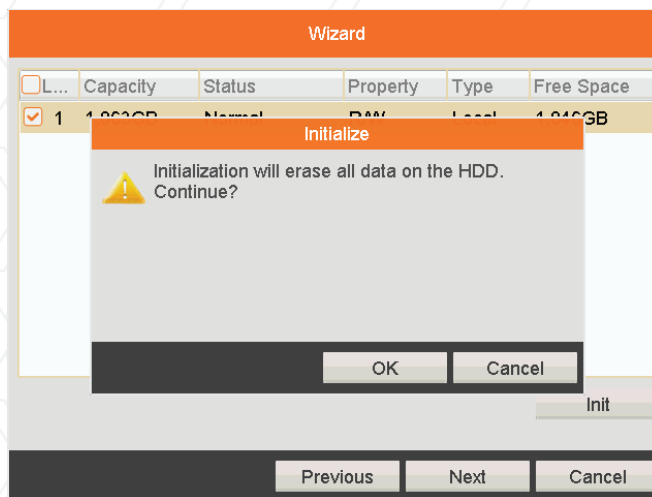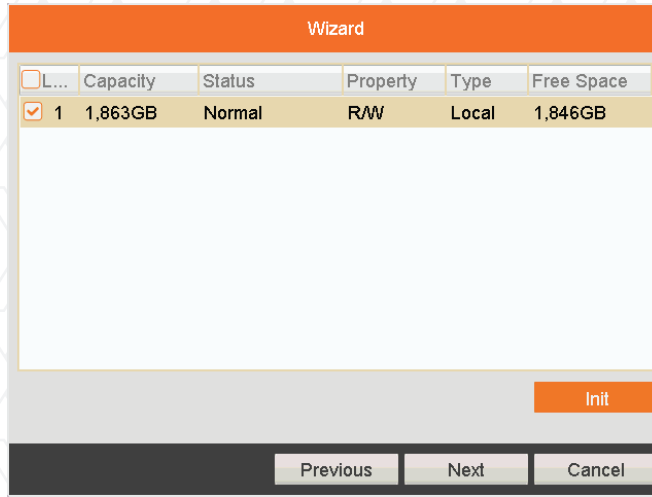| Wizard	
Time Zone	(GMT-06:00) Central Time(U.S. & Canada)
Date Format	DD-MM-YYYY
System Date	23-08-2014
System Time	14:27:53

Previous   Next   Cancel

5. **Network configuration:** Defines network parameters, including the NIC type, IPv4 address, IPv4 subnet mask, default gateway. By default, this is set to DHCP, to automatically obtain an IP address and other network settings from that server. Then, click **Next** to enter the HDD Management window.
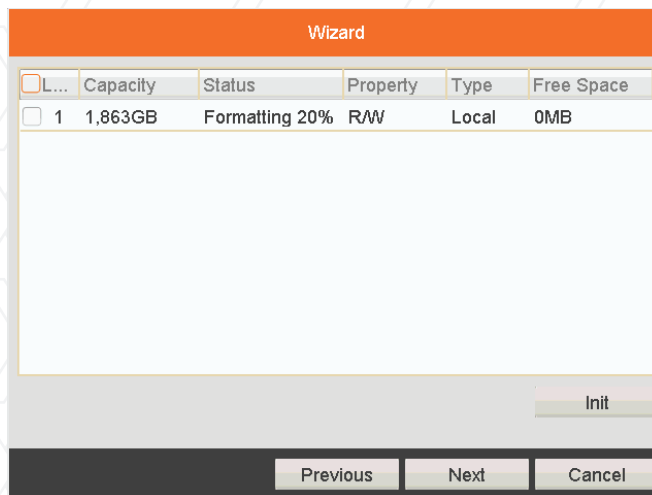
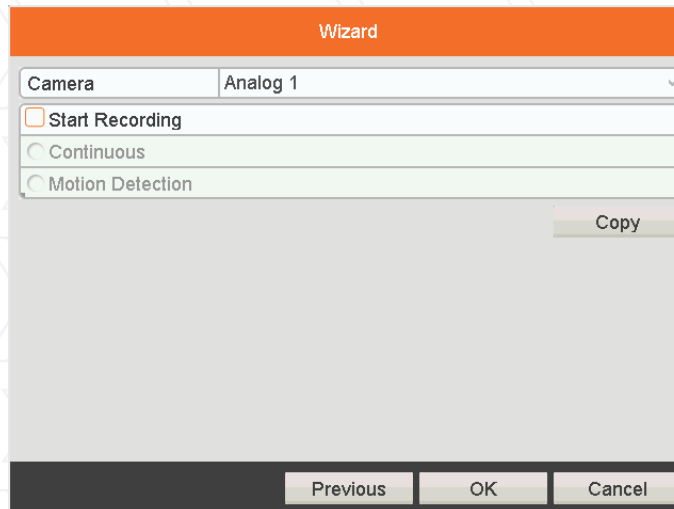| Wizard	
NIC Type	10M/100M Self-adaptive
Enable DHCP	☑
IPv4 Address	192 . 0 . 0 . 64
IPv4 Subnet Mask	255 . 255 . 255 . 0
IPv4 Default Gateway	. . .
Preferred DNS Serv...	
Alternate DNS Server	

Previous   Next   Cancel

6. **HDD management:** When using a hard drive for the first time, the system will prompt you to initialize the disk. Please note that initialization will remove all the data stored in the hard drive.

6.1 To proceed, select the hard drive from the list, click **Init**, followed by **OK**, as shown below.

Wizard					
L...	Capacity	Status	Property	Type	Free Space
☑ 1	1,863GB	Normal	R/W	Local	1,846GB

Init

Previous   Next   Cancel

Wizard					
L...	Capacity	Status	Property	Type	Free Space
☑ 1	1,863GB	Normal	R/W	Local	1,846GB

Initialize

⚠ Initialization will erase all data on the HDD. Continue?

OK   Cancel

Init

Previous   Next   Cancel

6.2 During this process, the formatting status will be displayed on the screen. When it is 100% complete, click **Next** to move on to the following window.

Wizard					
L...	Capacity	Status	Property	Type	Free Space
1	1,863GB	Formatting 20%	R/W	Local	0MB

Init

Previous   Next   Cancel

7. **Camera settings:** This window allows you to select the camera to be configured, enables the recorder function and the mode you wish to assign to each channel.
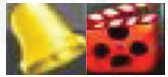

7.1 Click **Copy** to replicate the record settings of the current camera to any other camera(s).
7.2 Click **OK** to return to the **Record setting** window.

8. Once all parameters have been configured, select **OK** to complete the Setup Wizard.

VIII. Live view

The normal mode of the DVR is to display live footage from the cameras. The device automatically enters the Live View mode when powered on.
In addition to the images captured by the cameras, the DVR displays icons that represent the status of each device connected to the network.

Icon	Description
	An alarm event has been triggered (video loss, tampering or motion detection)
	Recording mode (manual, scheduled, or motion detection)
	Alarm and recording functions are both enabled

In this mode, the menu bar will be displayed in the lower edge of the screen. To bring it up, you can scroll down the cursor or simply click on the mouse right button.

Menu bar display

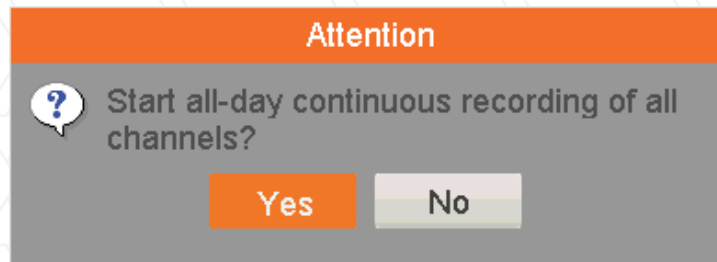|	Name	Description
1	Home	Brings up the main menu interface of the system
2	Viewer options	Switches among the available screen display modes included below
	1x1	Single view
	2x2	Quad view
	1x5	Five-channel grid view plus one enlarged frame (8-channel version only)
	1x7	Seven-channel grid view plus one enlarged frame (8-channel version only)
	3x3	Nine-channel grid view (8-channel version only)
3	Normal record	Enables the continuous recording option for the active channels
4	Motion detection	Enables recording when motion is detected in any of the selected channels
5	All-day playback	Plays back the video of the selected channel
6	Aux monitor	Switches to the auxiliary output mode (BNC), in which case the main output is disabled. NOTE If the Aux monitor mode is selected, make sure to have the BNC device connected to the video output in order to enable full mouse function. If you enter the Aux Monitor mode (no output plugged in), you can recover the full function by clicking 3-4 times on the scroll wheel of the mouse.
7	Output mode	Sets the video output mode to standard, bright, gentle or vivid
8	Previous screen	Displays the preceding page or item
9	Next screen	Displays the following page or item
10	Start/stop auto-switch	Enables/disables the auto-switch feature to display footage from the active channels. NOTE The *dwell time* in live view mode must be set before activating this feature in the DVR

IX. Main DVR functions

NOTE After certain period of inactivity, the system will prompt you to reenter your username and password. The default credentials are **admin** for the user name and **12345** for the password.

1. Record

From the live view interface, the user can configure the recording settings for all channels.
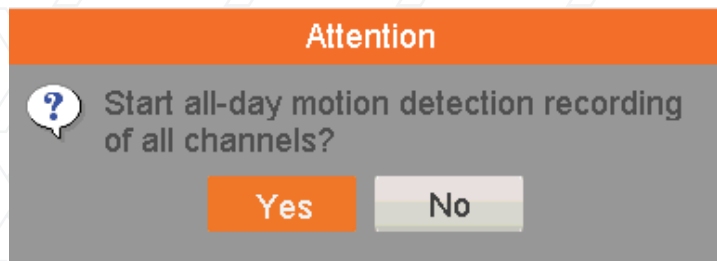
1.1 Click the **Normal record** icon on the menu bar to launch manual recording.

1.2 When the following window pops up, click **Yes** to finish the quick recording settings for the selected cameras.

2. Motion detection record

From the live view interface, the user can enable the motion detection feature on all channels.

2.1 Click the **Start all day motion detection** icon on the menu bar to launch the application.

2.2 When the following window pops up, click **Yes** to finish the quick motion detection settings for the selected cameras.
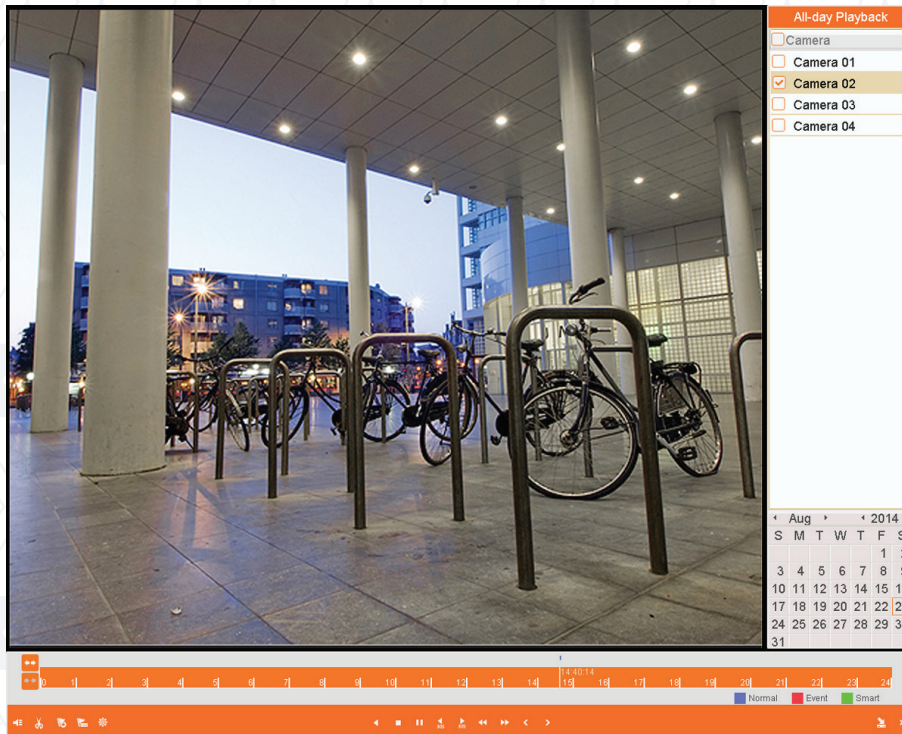
3. Playback

Playback options can be directly configured from the live view interface.

3.1 Click the **All-day playback** icon on the menu bar to launch the application.

3.2 The interface includes a toolbar on the bottom of the screen containing all the controls to manage the playback process.

3.3 In addition, by moving the cursor to the right side of the screen, the complete list of chan-
nels will be displayed. From this window, the user can select the videos recorded by each
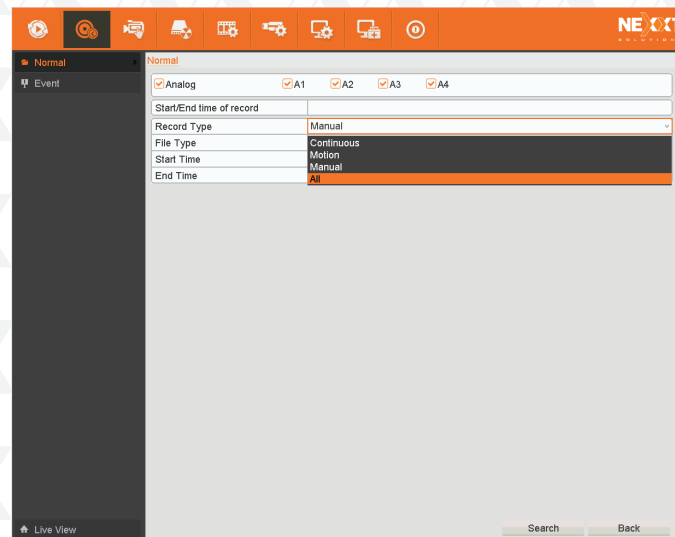particular camera he wants to view.

4. Backup

Recorded files can be backed up in external memory devices, such as USB flash drives, USB
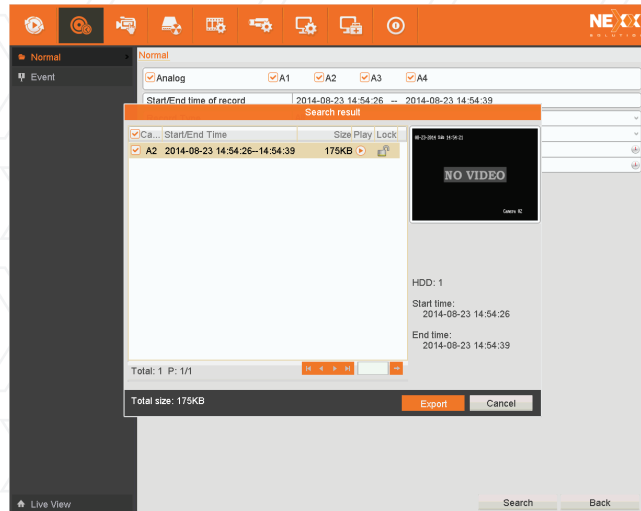hard disk drives or a DVD writer.
To export recorded files:

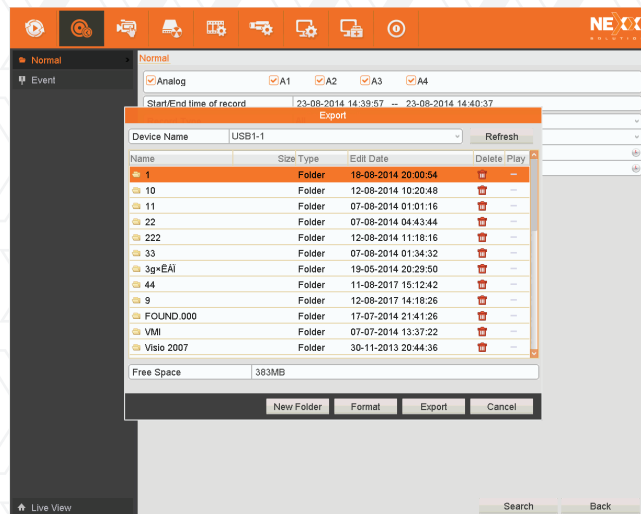4.1 Click **Home>Export >Normal** to enter the video export interface.

Choose the channel(s) and file types you want to back up from the **Record Type** line.
Then click the **Search** button to continue.

4.2 Select the recorded files and click **Export**.

4.3 Browse to choose the backup device and click the **Export** button to start the file(s) transfer, as illustrated below. The user can delete or check the saved files by clicking on the corresponding icon on the right hand column.
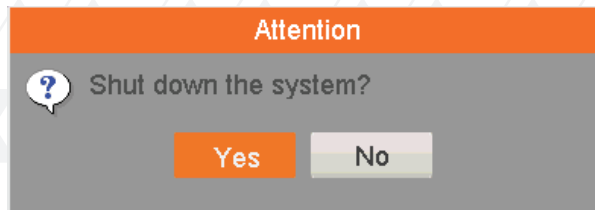

5. Startup and shutdown

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

5.1 Make sure that voltage of the AC mains or of the UPS system you are using matches the power requirements of this unit.

5.2 Verify that all power and ground connections have been done properly.

5.3 When connected, the power indicator LED will glow red.

5.4 To disconnect the system, use the mouse to select **Home**, followed by **Shutdown**.

5.5 The following dialog box will be displayed for you to confirm. If you want to continue, click **Yes**, as seen in the illustration below.

Attention

? Shut down the system?

Yes   No

5.6 At this final stage, you can safely unplug the DVR from the power source.

Please power off!