



# NVR User Manual



Screen-shots provided in manual are based off having an LCD and mouse connected to the NVR:

- Connect an LCD / TV using a HDMI or VGA cable to the NVR
- Connect a USB mouse to the NVR using one of the USB ports
- If an LCD is not available a Windows laptop can be used for configuration

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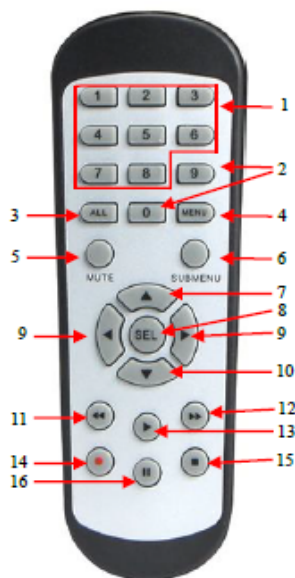
## SAFETY INSTRUCTIONS

Please carefully read the following safety instructions.

1. Only use the power supply that was supplied with the NVR.
2. Ensure that the NVR is installed in a clean environment and is well ventilated. Blocking the vents on the sides or rear of the NVR will restrict air flow and may cause the device to overheat.
3. Do not remove the NVR upper cover while the NVR is turned on.

Failure to adhere to these safety instructions may cause damage to your NVR. Please contact your reseller for further assistance.

### 1.6 Remote Controller (For Reference Only)

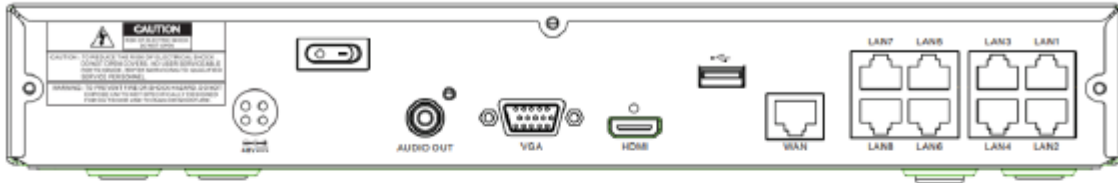


No.	Icon	Description
1	1-8	Numeric keys Press to display channel 1~8
2	9, 0	Numeric keys
3	ALL	Press to display all channels Multiple display mode
4	Menu	Press to enter or exit the Main Menu
5	Mute	Mute On/off
6	Submenu	Go to submenu
7	▲	Up arrow key; Volume increase
8	SEL	Press to enter the selected menu item and edit the setting
9	◀▶	Left/Right key; Decrease/increase parameter value of control bar.
10	▼	Down arrow key; Volume decrease
11	◀◀	Press to rewind during video playback
12	▶▶	Press to fast forward during video playback
13	▶	Press to play recorded video or enter the recording search menu
14	●	Press to start manual recording
15	■	Press to stop manual recording or stop the video playback
16	⏸	Press to pause the video playback or enter frame-playback mode

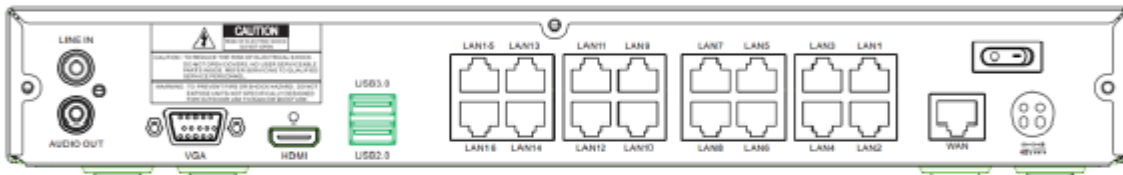


## 1.5 Rear Panels (IVSEC NVR Model Comparison)

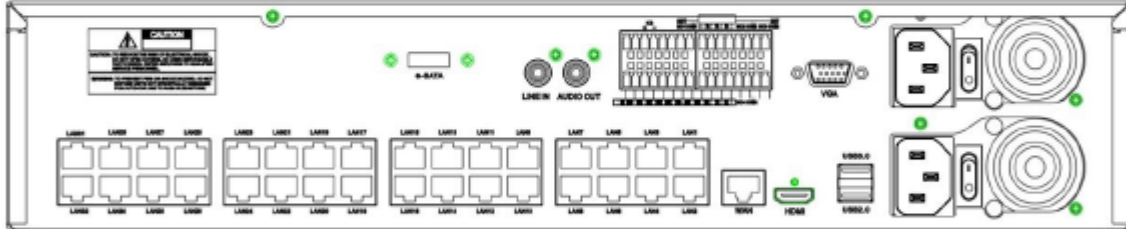
**IVSEC NR308X\*** – 8 Channel NVR with 8 POE+ ports, 1 hard drive bay (Some models may include alarm input / outputs)



**IVSEC NR316X\*** – 16 Channel NVR with 16 POE+ ports, 2 hard drive bays (Some models may include alarm input / outputs)



**IVSEC NR532XA / NR564XA** – 32 /64 Channel NVR with 32 POE+ ports, 8 hard drive bays, Alarm input / outputs



Item	Physical Port	Connection Method
1	Power Switch	Startup and shutdown
2	Power Port	Connect the attached power supply
3	USB Port	Connect USB devices, such as USB mouse and USB stick.
4	Sensor/Alarm	Connect to sensor or alarming device (available on NR532XA only)
5	HDMI Port	HDMI high definition port
6	VGA Port	Connect to VGA monitor, such as PC monitor
7	LINE IN	Intercom voice input
8	AUDIO OUTPUT	Audio signal output, RCA interface
9	WAN Port	Connect to your modem / router
10	LAN Port	Supports Auto POE, ePOE and manual mode
11	E-SATA	Connect to e-SATA HDD for recording & backup (NR532XA only)

## Chapter 2 NVR Installation & Connection

### 2.1 Hard Disk Drive (HDD) Installation

It is recommend that only surveillance grade hard drives are installed into your NVR. Contact your reseller for hard drive size and pre-installation options.

- The NR308X\* supports only one 3.5" SATA HDD's.
- The NR316X\* supports two 3.5" SATA HDD's.
- The NR532X\* and NR564X\* supports up to eight 3.5" SATA HDD's.

**CAUTION;** DO NOT install or remove HDD's while the NVR is turned on. Ensure the power supply is disconnected from the NVR while performing this process.

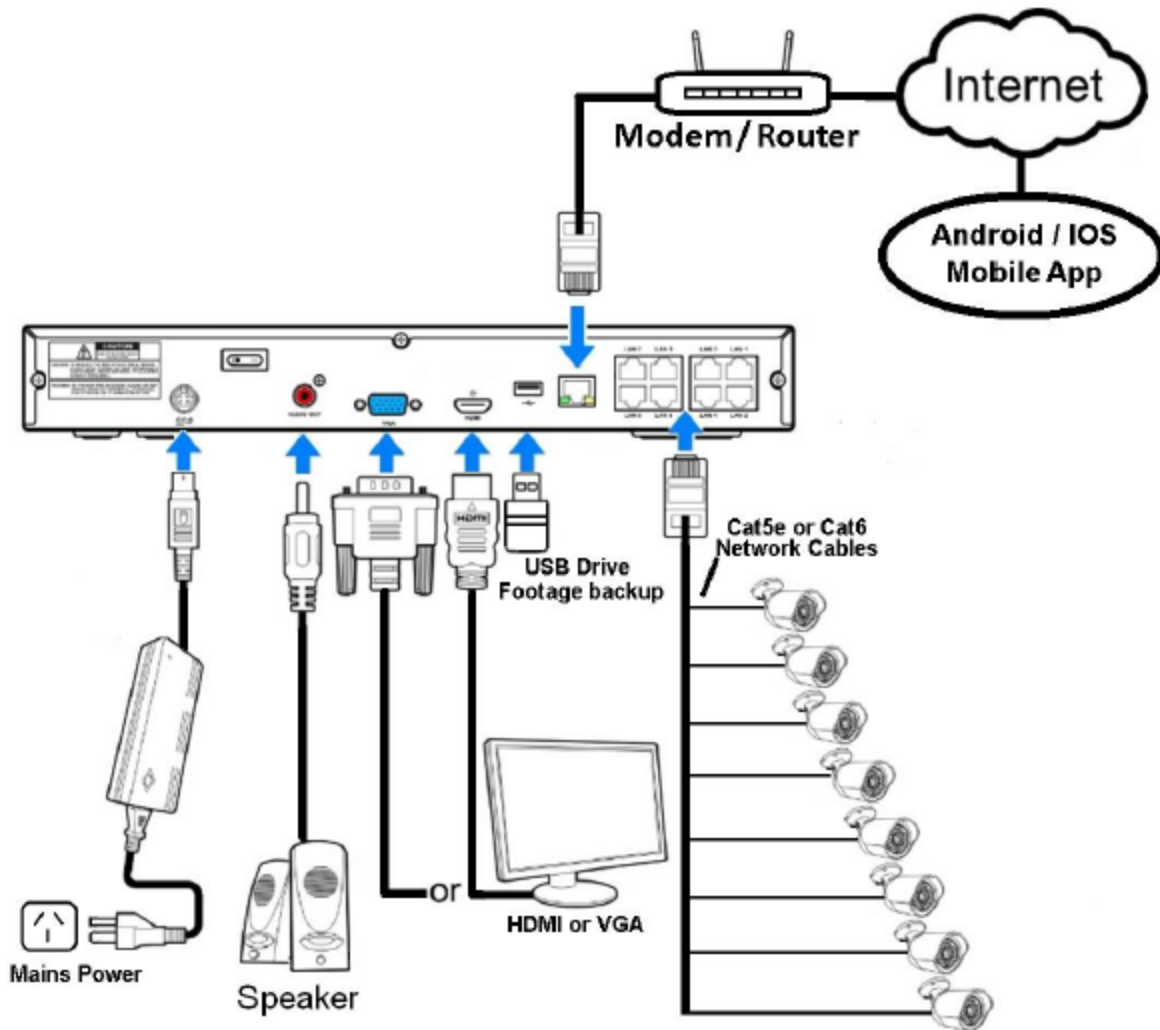
#### NR308X\* HDD Installation

- a) Carefully slide the SATA connector (L shaped connectors) of the hard drive onto the SATA slot on the NVR mainboard
- b) While holding onto the hard drive carefully flip the NVR case and secure the hard drive to the NVR with the four (4) screws



**Note:** Different NVR models will vary in hard drive installation procedure

## 2.2 Connection Diagram

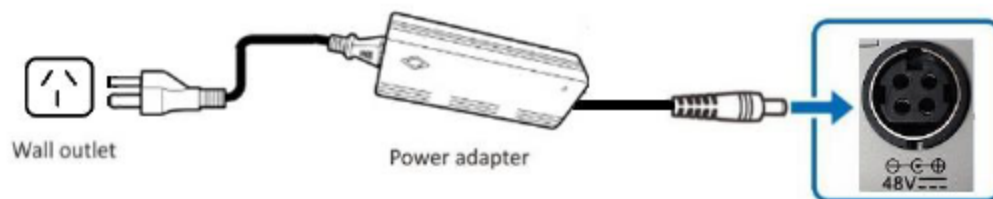


**Note:** The above diagram is for reference only. The location of various connections will be different depending on the NVR you have purchased.

## 2.3 Power Supply

**Caution:** Only use the power adapter that was supplied with the NVR

Connect one end of the power adapter to the power connector on the back of the NVR. Plug the other end of the power adapter into the wall outlet (NR308X\* and NR316X\* scenario shown below).



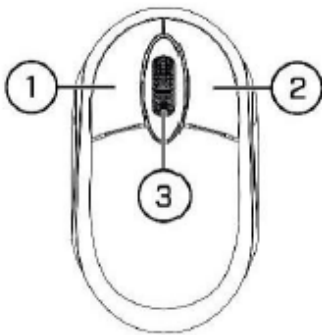


On the rear panel of the NVR set the power switch to the on position



## Chapter 3 NVR Common Operations

### 3.1 Using the Supplied Mouse



#### 1. Left Button:

- Click to select menu options.
- During live viewing in split-screen view, double-click on a channel to view it in full-screen (mainstream). Double-click the channel again to return to split-screen viewing.
- To open the Camera Quick Toolbar single-click on a channel / camera from the Live Viewing screen. A bar of icons will then appear
- Click and hold to drag sliders and scales on menu mode

#### 2. Right Button:

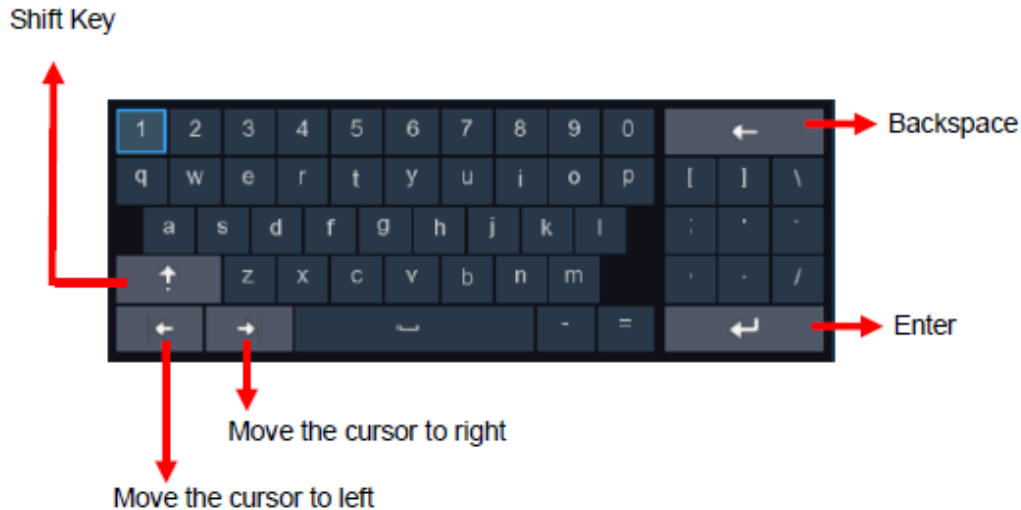
- Click once to open the Taskbar on the Live Viewing screen. View Taskbar on [4.2.2 Taskbar](#)
- Continually clicking on the right mouse button will take you back to the live viewing screen.

#### 3. Scroll Wheel:

- When previewing a camera scroll up / down to digitally zoom in and out.
- In menus, scroll to move up / down through the menu content.
- While hovering over the volume control wheel, scroll to turn system volume up / down.

## 3.2 Using the Virtual Keyboard

The virtual keyboard will appear automatically when you are prompted to enter a password or other details. Use the mouse to control the virtual keyboard



Clicking on the Shift key will allow you to access upper case letters and other special characters

## 3.3 Password

The first time the NVR is powered on you must enter your login password (there is no default password). This password will be used to access the NVR menus as well as for the Android / IOS mobile application.

A screenshot of a configuration menu with a dark background and light text. The fields are: 'Language' with a dropdown menu set to 'ENGLISH'; 'Device ID' with a text input field containing '000000' and '(000000)' to its right; 'New Admin Name' with a text input field containing 'admin'; 'Password Strength' with three grey bars of varying lengths; 'New Admin Password' with a text input field and a 'Show Password' checkbox; 'Confirm Password' with a text input field and a 'Show Password' checkbox; and 'Unlock Pattern Enable' with a dropdown menu set to 'Disable'. An 'Apply' button is at the bottom center.

**Language:** Choose your preferred language. English is set as Default

**Device ID:** It is recommended not to change this setting. Only in the event that you have more than one NVR onsite, it may be useful to give each device a unique ID.

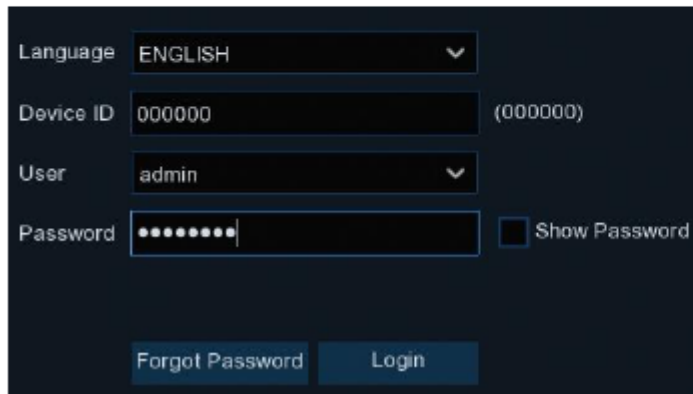
**New Admin name:** The default setting is "admin". Please do not change this setting

**New Admin Password:** The password must be a minimum of 6 characters.

**Confirm Password:** Re-enter your password to confirm

**Unlock Pattern Enable:** Default setting is "Disabled". Enabling this setting will allow you to use a pattern to login to the NVR. If you forget your pattern you can still use your password to login.

Click **Apply** to save your settings. Enter your user name & password to **Login** the NVR system.



The screenshot shows a dark-themed login interface with the following elements:

- Language:** A dropdown menu currently set to "ENGLISH".
- Device ID:** A text input field containing "000000" with a "(000000)" label to its right.
- User:** A dropdown menu currently set to "admin".
- Password:** A text input field containing seven dots, with a "Show Password" checkbox to its right.
- Buttons:** Two buttons at the bottom: "Forgot Password" and "Login".

## 3.4 Password Recovery

If you forget your password you can click on the "Forgot Password" option at the login screen. A temporary password will be sent to your email address. Please note that this option will only work if you have previously configured your email address into the NVR. If this is not already configured you will not be able to access the NVR.

Before contacting IVSEC for assistance you will be required to email the following details to [service@ivsecurity.com.au](mailto:service@ivsecurity.com.au)

- A photo of the NVR serial number sticker.
- A photo of the MAC Address Notice that appears on the screen after entering an incorrect password 5 times.
- Your Business Name, contact name, phone number and where you purchased the IVSEC product from.

**NVR Serial Number Sticker** (Located on the top cover of the NVR)



**MAC Address Notice** (Appears after entering an incorrect password 5 times.)



Shift Key

Backspace

Enter

Move the cursor to right

Move the cursor to left

**Language:** Choose your preferred language. English is set as Default

**Device ID:** It is recommended not to change this setting. Only in the event that you have more than one NVR onsite, it may be useful to give each device a unique ID.

**New Admin name:** The default setting is "admin". Please do not change this setting **USER MANUAL**

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**New Admin Password:** The password must be a minimum of 6 characters.

**Confirm Password:** Re-enter your password to confirm

**Unlock Pattern Enable:** Default setting is "Disabled". Enabling this setting will allow you to use a pattern to login to the NVR. If you forget your pattern you can still use your password to login.

Click **Apply** to save your settings. Enter your user name & password to **Login** the NVR system. **USER MANUAL**

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### 3.4 Password Recovery

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**NVR Serial Number Sticker** (Located on the top cover of the NVR)

**MAC Address Notice** (Appears after entering an incorrect password 5 times.) **USER MANUAL**



## Chapter 4 NVR Starting up

### 4.1 Before you Begin

Ensure that you have connected an LCD / TV using a HDMI or VGA cable as well as a USB mouse to the NVR

#### 4.1.1 Start Wizard

Click the **Start Wizard** to proceed to the next step

#### 4.1.2 Network Configuration

Connect an Ethernet cable from the WAN port on the rear of the NVR to your modem / router LAN port. The WAN port should be flashing orange and green lights once the cable is connected. Ensure that **DHCP** is ticked during the initial configuration: **USER MANUAL**

**DHCP:** Enabling DHCP will automatically request an IP address from your modem / router.

**IP Address:** The default IP address of the NVR is 192.168.001.100. This address should change automatically when DHCP is ticked.

#### Port

**Web Port:** The default web port is 80. Only a qualified IT Support technician should change this setting

**Client Port:** The default port is 9000 and can be changed as required. This port number is required to setup the Android / IOS mobile application

**RTSP Port:** The default port is 554

**HTTPS:** The default port is 443

**UPNP:** Disabled by default

**PPPOE:** Disabled by default. Normally this setting is not used by users. Simply ticking the DHCP box will be sufficient for most scenarios.

#### 4.1.3 Date/Time/ NTP / DST

##### Date & Time

This menu allows you to configure the Date, Time, Date Format and Time Format, Time Zone, NTP and Daylight Savings (DST). It is important to configure the correct date / time and DST.

**Date:** Click on the calendar icon to set the current system date.

**Time:** Click to set the system time.

**Date Format:** Choose from the dropdown menu to set preferred date format.

**Time Format:**Default is 24Hour.**USER MANUAL**

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**Time Zone:**Set the correct time zone(The Default is GMT+ 10 –(applicable for ACT, NSW, QLD,VICand TAS).

#### **NTP**

NTP stands for Network Time Protocol. This feature allows you to synchronise the date and time automatically onthe NVRover the Internet.The default setting is disabled

Tickthe “**Enable NTP**” box, and select pool.ntp.org.Click on “Update Now”

#### **DST**

DST stands for Daylight Savings Time.

**Enable DST:** Enable if Daylight Saving Time (DST) is observed in your region(NSW, VIC, ACT, SA and TAS). Ensure that you configure the correct Start / End Time settings based on the state you reside in.

**Time Offset:** Select the amount of time to offset for DST

**Time Mode:** Choose to set the daylight saving time in weeks or in days**USER MANUAL**

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**Start Time/End Time:** Set the start time and end time for daylight saving

#### **4.1.4 IP Camera**

When you connect an IVSEC camera with an X in the model number (e.g. NC110X\*) directlyto the NVR it will automatically be configured within 60 seconds of being connected (plug and play). Connect a camera using an Ethernet cable to a LAN port on the rear of the NVR. No additional configuration is required on this menu. Most users can skip this menu by clicking “Next”

#### **4.1.5 DiskUSER MANUAL**

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**Overwrite:** Default setting is "Auto".

This setting will automatically record over the oldest footage when the hard drive becomes full.

A new hard drive installed into the NVR must be formattedduring the initial setup. Anyexisting data on the hard drive will be erased

Select the hard drive number (e.g. 1, if you have multiple drives installed select the additional numbers)

Click the "Format HDD"buttonand enter your password. The hard drive will now format. Click "Next" when complete.

**Record On ESATA:** Option only available on the NR532X\* and NR564X\* NVR. When this option is enabled you can record the video to an e-SATA device.

#### 4.1.6 Resolution

Choose an output resolution that matches to your LCD monitor capabilities. The NVR supports to adjust the output resolution automatically to match the best resolution of your monitor when the system is starting up. A window will appear asking you to confirm the change to the Output Resolution, confirm this and when the window closes click **Next**

#### 4.1.7 Mobile

Scanning the QR code is required to access the NVR using the IVSEC X Mobile application; you can scan the QR code using the mobile app. **USER MANUAL**

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#### 4.1.8 Summary

You can check the system summary information you had set in the start wizard.

Ticking "**Don't show this window next time**" will stop the Start Wizard from re-appearing when the NVR is restarted. Click the **Finish** button to save & exit. **USER MANUAL**

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### 4.2. Start Menu

The Start menu is located on the bottom left hand corner of the screen

With the start menu, you can switch user, search & playback, enter system setup menu, lock & unlock the screen, shut down, reboot & logout the system.

To switch user. To enable multi-user, please view on 5.6.3 Multi-user.

Search & Playback. View more on Chapter 6 Search, Playback & Backup

NVR System Setup. View on Chapter 5 NVR System Setup

Lock & unlock screen. View on 4.2.3.1 Unlock and Lock Screen.

Shutdown, reboot & logout the system. View on 4.2.3.2 Shutdown.

**Admin**—Clicking on "admin" allows you to switch to a different user if additional users have been previously configured

**Search**—Review, playback and backup (when a USB stick is connected to the NVR) previously recorded footage

**Setup**—Access to camera configuration, record settings, network configuration, hard drive and system configuration

**Lock Screen**—Once the screen is locked you will need to enter the NVR password to unlock it

**Shutdown**—Allows you to Shutdown, Reboot or Logout of the NVR (password required) **USER MANUAL**

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#### 4.2.1 Unlock and Lock Screen

The screen will automatically lock after 1 minute of inactivity to protect unauthorised access.

If necessary, you can also lock the screen operation manually. To do so, go to the Start Menu, then click the Lock Screen icon to lock the system immediately.

If the system is locked, you can click the Unlock icon to unlock the system. You will need to enter your password

#### 4.2.2 Shutdown

Click the **Shutdown** button from the Start Menu, select from Shutdown, Reboot or Logout. Click the **OK** button; you will be required to enter the Admin password to authenticate. **USER MANUAL**

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If you choose to **Logout**, the live viewing screen will disappear. You will need to re-login to view the cameras.

#### 4.3 Live View

##### Camera Title

The camera title of cameras can be adjusted from Start – Setup – Channel – Live – Channel Name

##### Status Icons

This indicates that the NVR is currently recording. **USER MANUAL**

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This icon appears when the camera has detected motion.

**PIR** This icon indicates that a PIR detection has been made.

**S** This icon indicates an intelligent event has been triggered

The icon indicates that the external I/O alarm device is triggered

This icon indicates that the HDD has an error

This icon indicates the HDD is unformatted

This icon indicates the HDD is full.

This icon indicates the HDD is read-only.

**Off-line:** If Off-line is displayed on a channel it means the camera has lost connection to the NVR. Try to disconnect and re-connect the camera cable at the rear of the NVR.

Indicates the channel is set to manual mode. Click to open **Quick Add** menu to add IP camera

Click to edit current IP camera

#### **4.3.1 Camera Quick Toolbar**

In live viewing, click the left button of your mouse on a connected camera to display the Camera Quick Toolbar.

Click to manually record the channel immediately. If the manually recording is in process, the icon will be in red colour. Click one more time to stop manual record.

Click to save a snapshot of the current camera image. Manual Capture must be enabled to use this feature. For details on enabling Manual Capture, see **5.2.3.1 Capture**.

Click to play the latest 5 minutes recording of this channel

Click to enter PTZ control panel, see **4.2.1.1 PTZ Control**

Click to zoom-in the channel. When the icon appears, press and hold the left button of your mouse to drag the area you want to zoom in.

Click to adjust the image colour of the channel. You can adjust the HUE, BRIGHT, CONTRAST & SATURATION of the image. **USER MANUAL**

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Switch the live view video stream between HD & SD. HD is mainstream live view, SD is substream live view. Limit of 2 cameras running in HD resolution on the live view. Switching too many cameras to HD mode will result in the errors "**To view more cameras please select substream**" or "**resource is not enough**" to appear.

Light –Deterrent feature available in selected camera models, similar to a floodlight.

Siren -Deterrent feature available in selected camera models. Caution must be taken when activating the siren as it is noisy.

Add customized tag - will allow you to create an individual name for the tag to make it easier to identify in the Tag menu.

Recent recordings will show up on a scroll bar on the right hand side of the screen. This will show the channel name, a still image of the channel, the time of the event and will be colour coded based on the event type. You can choose to pin this menu otherwise it will collapse after a few minutes until the next activity is recorded. **USER MANUAL**

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Clicking on the gear icon will bring up the filter menu. You can select the type of events that will appear on the menu



Clicking on the icon of an eye will hide the menu. The icon will change to a closed eye

**Instant Playback:**

You can click on the play button to instantly view a recording. **USER MANUAL**

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**4.3.2PTZ Control**

PTZ control allows you to control your PTZ (up, down, left, right or zoom /focus) or a camera with a motorised lens (Zoom / Focus)

1) Left mouse click on the PTZ channel in the Live Viewing screen to open Camera Quick Toolbar, and choose the PTZ control icon.

2) PTZ control panel will be displayed.

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11No.	Icon	Item	Description
1		Channel	Click to select the channel of the PTZ camera.
2		Cruise	Start / stop PTZ cruise by preset points. Make sure you had enabled the Cruise

			function for this channel in 5.1.4 PTZ.
3		UTC Menu	If you have chosen protocol for this channel as COAX1 or COAX2, the UTC menu button will be display. Click this icon to enter UTC OSD menu. It is also the confirm button for your selection in the UTC OSD menu.
4	Speed	Speed	Adjust the PTZ speed
5		Pointer Panel	<p>A) Click the direction arrow to select the direction of the PTZ camera</p> <p>B) Click up/down/left/right arrow to move cursor in UTC OSD menu</p> <p>C) Click to switch to auto pan mode</p>
6	-ZOOM +	Zoom	Click to zoom in/out.
	-FOCUS +	Focus	Click to adjust the focus
	-IRIS +	Iris	Click to adjust the iris setting
7		PRESET	To display or hide the preset point panel