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MODEL: NVR4ENTPACK v1.2

## ***Professional IP Surveillance Pack***

***Network Video Recorder with 4 Security Cameras***

**‘QUICK INSTALLATION GUIDE’**



N517



### **NVR**

- *Advanced H.264 Video Compression Technology*
- *Multiplex Operation*
- *Long Recording Duration*
- *Intelligent Video Motion Detection Recording*
- *Remote Network Surveillance & Backup Functions*
- *Easy to operate with USB Mouse or IR Remote.*
- *System Auto recovery after power loss (blackout)*

### **4 x IP Day/Night Cameras**

- *High Quality 1.3MP CMOS Image sensor*
- *IR Night view range of 20 metres*
- *720p Resolution*

### **POE Network Switch**

- *Centralise your cameras away from your NVR*
- *Power and video over the same cable*
- *View over the internet via Smartphone or PC*

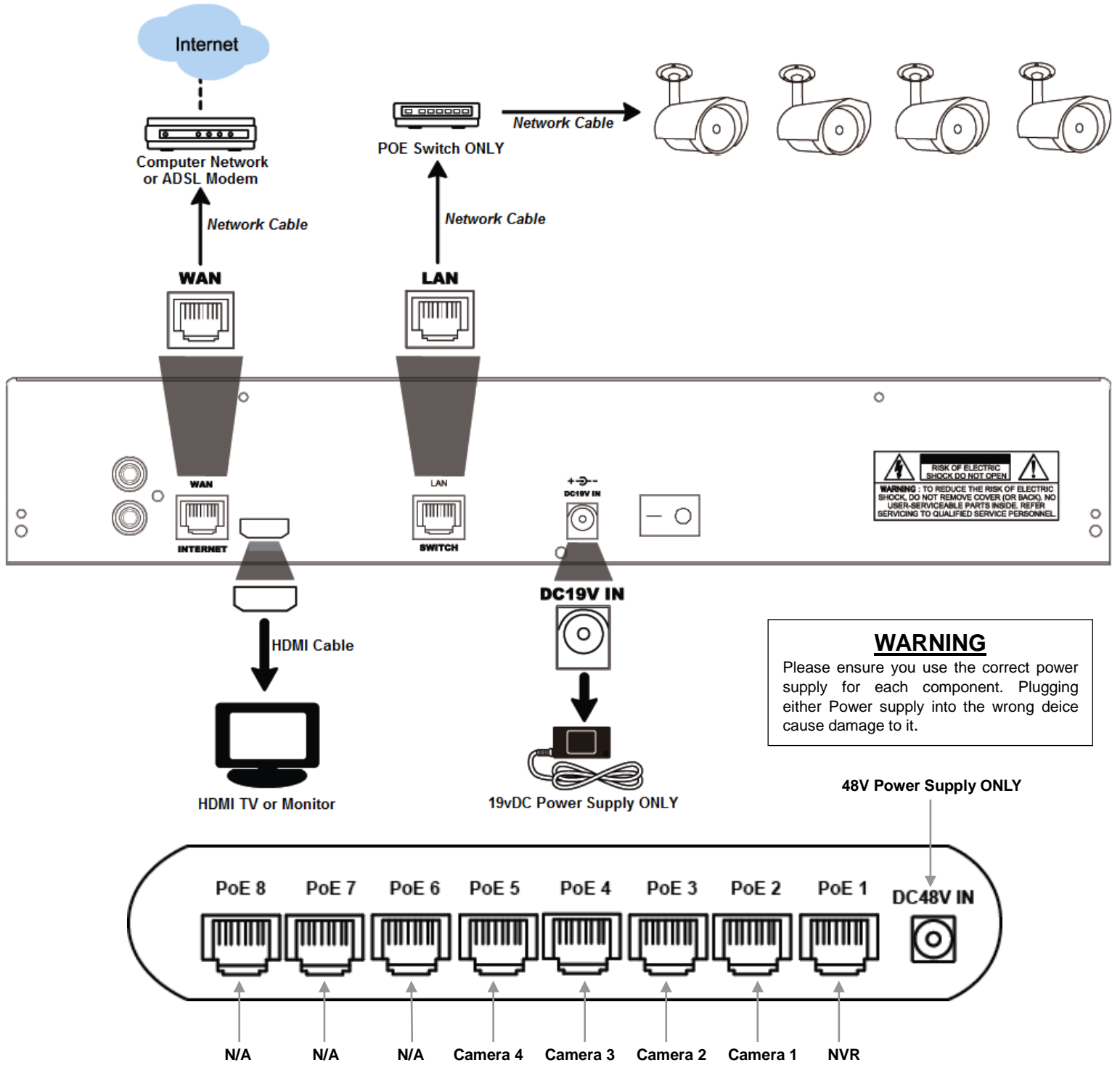
**Package Contents** (Before commencing installation, please ensure you have all the parts listed below).

	<p><b>1 x Network Video Recorder with 1TB Hard Disk Drive</b></p> <ul style="list-style-type: none"> <li>• Advanced H.264 Video Compression Technology for High Quality Images</li> <li>• Easy to Operate</li> <li>• Can be Connected to a PC Network for Remote Viewing &amp; Backup (Software on Disc)</li> </ul>
 <p><b>x4</b></p>	<p><b>4 x Day/Night Weatherproof Colour Cameras with Infrared LEDs - 20m Range</b></p> <ul style="list-style-type: none"> <li>• IR LEDs for Viewing in Total Darkness up to 20m (B&amp;W Mode)</li> <li>• 720p Resolution, 1.3 Megapixels</li> <li>• Ideal for use Indoors and Out</li> <li>• Power and video over one cable</li> </ul>
	<p><b>1 x POE Network switch</b></p> <ul style="list-style-type: none"> <li>• Will Power all connected camera via POE (Power Over Ethernet)</li> <li>• Connect all cameras to this switch and have the recorder in a different location</li> </ul>
 <p><b>x6</b></p>	<p><b>6 x Ethernet Cables</b></p> <ul style="list-style-type: none"> <li>• Combined DC Power and Video Leads</li> <li>• Pre-terminated - Allowing Simple Plug-in Connection – No Tools Required</li> <li>• 2 x 1.5m, 2 x 10m, 1x 20m, 1 x 30m Leads Supplied</li> </ul>
	<p><b>1 x HDMI Connection Cable</b></p> <ul style="list-style-type: none"> <li>• Connect the NVR to a HDMI ready TV or Monitor</li> </ul>
	<p><b>1 x USB Mouse</b></p> <ul style="list-style-type: none"> <li>• To operate the NVR</li> </ul> <p><b>1 x IR Remote Control with batteries</b></p> <ul style="list-style-type: none"> <li>• To operate the NVR</li> </ul>
 <p><b>x2</b></p>	<p><b>2 x Switch Mode Low Voltage Power Supplies</b></p> <ul style="list-style-type: none"> <li>• 1 x 48v Power Supply for use with the POE Network Switch</li> <li>• 1 x 19v Power Supply for use with the NVR</li> <li>• Advanced Switch Mode Technology</li> </ul>

# Installation

Before installing this unit, please read through the following points:

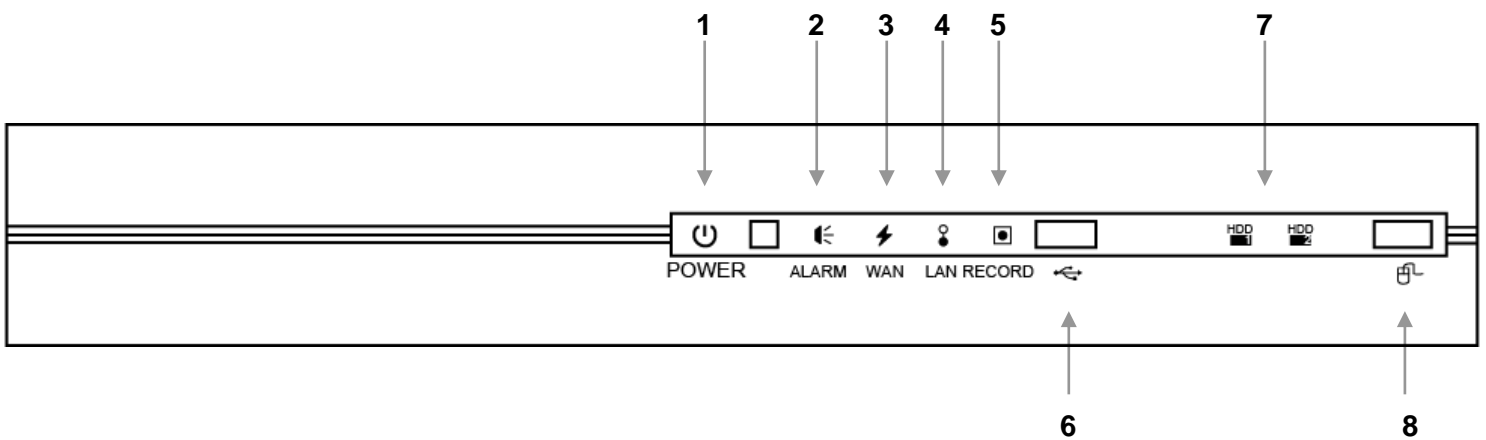
- Do not place cords from the AC adapter where they can be pinched or stepped on.
- Do not place heavy objects on cords, or cover cords with rugs or carpet.
- Never immerse any component in water, and do not spray cleaners or solvents on the unit. Unplug units before cleaning. When cleaning, use a damp, lint-free cloth only.
- Do not expose the NVR, POE Network Switch or Cameras to excessive heat, cold, or moisture.
- Leave at least 50mm of space between the NVR and other objects to allow air circulation.
- Service should be handled only by qualified technicians.



## Connection Guide

1. Mount the 4 Cameras as required and connect them to the POE Network Switch using the supplied Network Cables on ports 2, 3, 4, 5.
2. Connect the **48V Power Supply** marked **SWITCH** to the POE Network Switch.
3. Connect a Network Cable to the rear of the NVR in the socket labelled **LAN**. Then connect the other end to the POE Network Switch on port 1.
4. Connect the **19V Power Supply** labeled **NVR** to the NVR.
5. Plug both power adaptors into a Power-point.
6. The power LED at the front of the NVR should now be illuminated and the unit will make a loud beep sound to indicate it is powered.
7. Connect the included mouse to the USB port on the front marked with a mouse symbol.

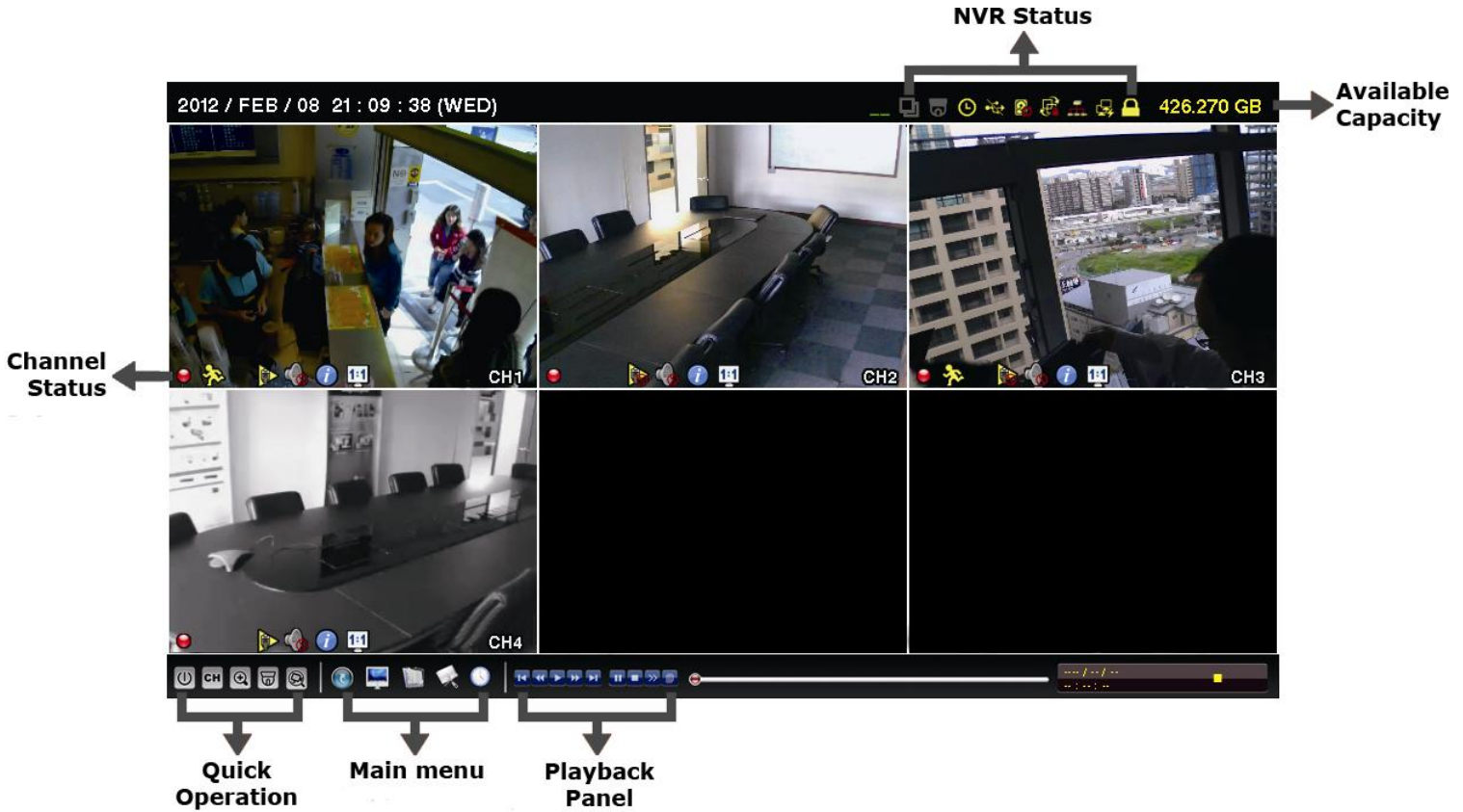
## Front Panel













1	<b>“POWER”</b>	Indicates the NVR is plugged into power.
2	<b>“ALARM”</b>	Indicates that an alarm event is occurring.
3	<b>“WAN”</b>	Shows that the NVR is connected to the internet.
4	<b>“LAN”</b>	Shows that the NVR is connected to the network switch and cameras.
5	<b>“RECORD”</b>	Indicates that the NVR is currently recording.
6	<b>“USB PORT”</b>	A compatible USB flash drive can be plugged in for backing up recorded video.
7	<b>“HDD1/HDD2”</b>	These lights show that the Hard drives are working correctly. (The NVR4ENTPACK comes with one installed drive).
8	<b>“MOUSE PORT”</b>	Use this port to plug in a USB mouse.

## Main Screen

- Make sure your TV/Monitor is ON and set to the appropriate HDMI channel if required.
- Turn on the Switch.
- Turn on the NVR, the machine will take a minute to start.
- The images from all 4 cameras should now be displayed on your TV/Monitor.



Quick Operations		Main Menu	
At the bottom of the screen is the quick operations bar as follows:		The main menu is at the bottom of the screen to the right of the quick operations menu.	
	Click to show the power off panel to either halt or reboot the system		QUICK START: Click to set the status display, image settings, and date & time.
	Click to show the channel switch panel and select the channel you want.		SYSTEM: Click to set the system configurations.
	Switch to the channel you want first, and click to enter the zoom-in mode.		EVENT INFORMATION: Click to enter the event search menu.
	Click to enter PTZ Mode and show the PTZ camera control panel.		ADVANCED CONFIG: Click to adjust advanced system settings such as recording modes and camera resolutions.
	Click to open the IP search window and check the current connection status of each channel.		SCHEDULE SETTING: Click to set timer and detection recording.

## Set the Time and Date

When using your NVR for the first time, you will have to set the DATE and TIME.

- Left clicking anywhere on the screen will bring up the password menu.  
Use the mouse to enter the NVR admin password with the on-screen keypad.

**Default:**

The default username is **admin**, the password is also **admin**.

(Users can alter the password later. Please refer to the Advanced set up guide CD)

- Choose "QUICKSTART"  then "TIME SETUP" to set the date and time.

QUICK START	
GENERAL	DATE 17/08/2010
TIME SETUP	TIME 12:00
EXIT	

**Important:**

If you change the date or time on your NVR after the recording function is activated, the recorded data may be deleted. After setting the date and time, it's recommended to clear all HDD data, and start recording again.

## To Connect Cameras

The NVR will Automatically configure the IP address of a camera connected by LAN if:

- The camera is connected to the POE Network Switch.
- The camera is powered on before the NVR is powered on.

To Manually add a camera to the NVR:



1. Click (IP Search) to start search IP camera(s) connected in the same network segment as the NVR (i.e. 10.2.2.xx Rhino default).
2. You'll see the list of every connected IP camera with its connection status to this NVR and MAC address.

IP SEARCH			
IP	PORT	MAC	STATUS
10.2.2.12	88	00:0e:53:e5:9a:f1	BE CONNECTED ON CH1
10.2.2.13	88	00:0e:53:a6:91:18	BE CONNECTED ON CH2
10.2.2.14	88	00:0e:53:a5:9f:a2	UNUSED
10.2.2.15	88	00:0e:53:e1:4e:k5	BE CONNECTED ON CH3
			CONNECT   SETUP   EXIT

3. To fix the camera IP address, or allow the NVR to assign an IP address to your IP camera, select "SETUP", and select "DHCP" for "NETWORK TYPE".

SETUP	
NETWORK TYPE	DHCP
IP	10.2.2.2
PORT	80
USER NAME	admin
PASSWORD	*****
NETMASK	255.255.255.224
GATEWAY	10.2.2.10
PRIMARY DNS	168.95.1.1
APPLY   EXIT	

4. Click "APPLY" and "EXIT" to save your changes.
5. To connect to another IP camera, select the unused IP camera from the IP search list, and select "CONNECT". Select the channel you want to display the camera images, and click "SAVE" to start connection.

CONNECT	
IP	10.2.2.14
PORT	88
CHANNEL	CH5
USER NAME	admin
PASSWORD	*****
SAVE   CANCEL	

## To Set Up Recording Rates

### Record Times:

The NVR4ENTPACK system is capable of storing 2 weeks of recorded footage based on 1Tb of storage and the 4 included 1.3MP Cameras set to 720P @ 15fps and Quality 5.

Choose "QUICKSTART" then "GENERAL" and then "RECORD CONFIG" to set the Recording Rate.

QUICK START						
MANUAL	EVENT	TIMER				
CHANNEL	PROFILE	TYPE	IMAGE SIZE	QUALITY	I.P.S.	
CH1	PROFILE-1	H264	1280 x 720	0 5 10 ■■■■■▲■■■■■	15	
CH2	PROFILE-1	H264	1280 x 720	0 5 10 ■■■■■▲■■■■■	15	
CH3	PROFILE-1	H264	1280 x 720	0 5 10 ■■■■■▲■■■■■	15	
CH4	PROFILE-1	H264	1280 x 720	0 5 10 ■■■■■▲■■■■■	15	
CH5	PROFILE-1	H264	-	0 5 10 ■■■■■▲■■■■■	-	
CH6	PROFILE-1	H264	-	0 5 10 ■■■■■▲■■■■■	-	
						EXIT

We recommend setting each camera to a maximum of 1280 x720, Quality 5 and 15fps. While any of these cameras may be set higher, please be aware that it will reduce the total recording time to less than 2 weeks.

### Note:

**6 Cameras – set I.P.S. to max 10**



If CPU usage is continuously in the RED zone then you should reduce the I.P.S. even further (8).

Tip: You may wish to keep one camera at 10 where the quality is most important and reduce other to balance the CPU load.

## To Begin Recording

Once you have successfully set the Date and Time, exit the OSD Menu by clicking the EXIT button. By default, the NVR will begin recording when it is properly connected to the cameras and has an installed HDD. If it is recording, the recording icon "●" will be displayed on screen.

### Overwriting View:

When the system is in Overwrite recording mode, the oldest recorded data will be overwritten automatically. **This NVR System is set to Overwrite by factory default.**

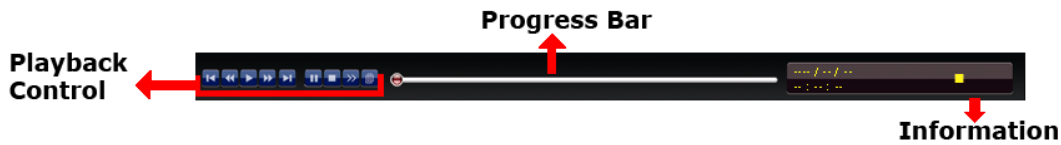




## To Play Back Captured Video Footage

### PLAYBACK CONTROLS:



The Playback controls are visible at the bottom of the screen on the right.




Click the “” button and the NVR will display the last recorded video.

### FAST FORWARD (F.F.) & FAST REWIND (REW):


You can increase the speed for fast forward and rewind on the NVR in the playback mode,

- Click “” once to get 4X speed forward and press twice to get 8X speed etc.  
The maximum speed is 32X.
- Click “” once to get 4X speed rewind and press twice to get 8X speed etc.  
The maximum speed is 32X.



### SLOW PLAYBACK:

- Click “” button to get 1/2X speed playback.


### PAUSE/IMAGE JOG:

- Click “” button to pause the current image displayed on the screen.

#### **In the Pause mode:**

- ◆ Click “” once to get one frame forward
- ◆ Click “” once to get one frame rewind

### STOP:


- Pressing “” button under all circumstances will return NVR to live monitoring mode

### SEEKING:

- Dragging the circle on the progress bar will skip to that approximate point in the recording history.


## Searching for data

You can also use the search function of the NVR to look back through stored data via various events

- Click the “**EVENT INFORMATION**”  button in the main menu to enter search mode.
- Then the screen will show the following window.

**EVENT INFORMATION**

<b>QUICK SEARCH</b> RECORD MOTION ALARM TIME FULL	HARD DISK CHANNEL	ALL HDD <input checked="" type="checkbox"/> 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input checked="" type="checkbox"/> 05 <input type="checkbox"/> 06																																										
<div style="display: flex; justify-content: space-between; align-items: center;"><span>◀ 2009</span><span>▶</span><span>NOV</span></div> <table style="width: 100%; text-align: center; border-collapse: collapse;"><thead><tr><th>SUN</th><th>MON</th><th>TUE</th><th>WED</th><th>THU</th><th>FRI</th><th>SAT</th></tr></thead><tbody><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr><tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr><tr><td>22</td><td style="background-color: #cccccc;">23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr><tr><td>29</td><td>30</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 5px;"><span>00</span><span>06</span><span>12</span><span>18</span><span>24</span></div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 5px;"><span>15 : 20</span><span>SUBMIT</span></div>			SUN	MON	TUE	WED	THU	FRI	SAT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
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29	30																																											
<span>EXIT</span>																																												

- Each camera creates individual event logs, select which channel's log you wish to search by checking the appropriate box. Select which date you wish to search by clicking on the appropriate panel. Then click Submit to receive a list of all events on that date.
- You may also click the event type on the left to see a list of all events of that category.
- Once in the sub menu, use the mouse to select the event you'd like to view. Double click to select the footage. The NVR will then start playing back the recorded data from the selected event. Use the FAST FORWARD/REWIND/PAUSE/SLOW PLAYBACK and CHANNEL SHIFT buttons on the on-screen playback control bar to navigate through the footage as required.
- To finish viewing the playback, click the stop “” button to return to the live display

## Networking

**Important:**

Before setting up remote access for your NVR, you will need to have a good understanding of computer networking. Otherwise please seek the assistance of a qualified I.T. person.

Choose “ADVANCED CONFIG” and then “NETWORK” to set the Static IP address.

Choose “Static” to allocate an IP address manually, and then enter the IP Address, Subnet mask, and Gateway.

For Example we have used:

**Network Type:** DHCP – we have chosen DHCP as the default. Should auto connect with most networks.

**IP Address:** 192.168.1.10

**Gateway:** 192.168.1.1

**Subnet:** 255.255.255.0

**DNS:** 192.168.1.1

**Port:** 88

ADVANCED CONFIG				
CONNECTION	WAN	LAN	E-MAIL	DDNS
CAMERA	NETWORK TYPE			DHCP
DETECTION	IP			192.168.1.10
ALERT	GATEWAY			192.168.1.1
<b>NETWORK</b>	NETMASK			255.0.0.0
DISPLAY	PRIMARY DNS			192.168.1.1
RECORD	SECONDARY DNS			0.0.0.0
NOTIFY	PORT			88
EXIT				

Should you wish to set your DVR up for internet access, you will require:

- An ADSL connection of 512/512 minimum (ADSL2 recommended).
- An External Static IP address from your Internet Service Provider.
- An ADSL Modem which supports Port Forwarding.
- A network connection between your NVR and the ADSL Modem.
- Set your DVR up on the local network by giving it a compatible IP Address.
- In your modem Port Forward port 88 to the IP address of your DVR.

ADVANCED CONFIG				
CONNECTION	WAN	LAN	E-MAIL	DDNS
CAMERA	Mode		AUTO	
DETECTION	IP		10.2.2.2	
ALERT	NETMASK		255.255.255.224	
<b>NETWORK</b>	DHCP START IP ADDRESS		10.2.2.10	
DISPLAY	DHCP END IP ADDRESS		10.2.2.30	
RECORD				
NOTIFY				
EXIT				

LAN Configuration: We have configured the LAN setting as shown above to minimize the risk of conflicts with the WAN when connecting to networks using the popular 10.1.1.x configuration. Telstra customers often use this subnet.

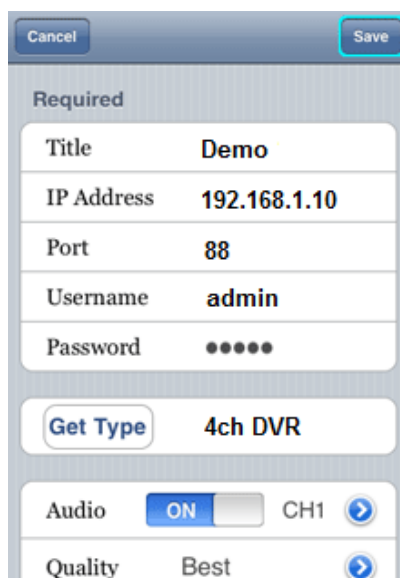
## EagleEyes Mobile App

From your compatible Smartphone, access the App store or Market and download the free “EagleEyes(Lite)” App.



Once EagleEyes is installed, enter the “Address book” page and select “+” add a new connection. Add the Name, IP Address, port, user name and password of your NVR. Then choose SAVE.

(If connecting over an Internal Network you can use your local IP Address of the DVR, however when connecting over the Internet, you must use your External Static IP Address instead).



Required	
Title	Demo
IP Address	192.168.1.10
Port	88
Username	admin
Password	•••••
Get Type	4ch DVR
Audio	ON CH1
Quality	Best

To connect just select the name of your NVR.

## Troubleshooting

Please refer to the FAQ table below for easy troubleshooting. The table below describes some typical problems and their solutions. Please consult these guides before contacting your NVR dealer.

PROBLEM	SOLUTION
No power	<ul style="list-style-type: none"><li>- Check power cord connection.</li><li>- Confirm that there is power from the outlet.</li><li>- Ensure that the 19V 2A is connected to the NVR</li></ul>
Not working when selecting any button	<ul style="list-style-type: none"><li>- Left click on the screen and then enter the password to exit "Key Lock" mode.</li></ul>
Timer record function is not working	<ul style="list-style-type: none"><li>- Check if the "TIMER RECORD ENABLE" is set to "YES".</li></ul>
No live video	<ul style="list-style-type: none"><li>- Check the cameras cable and connections.</li><li>- Check the monitors cable and connections.</li><li>- Ensure you are not in playback mode.</li><li>- Ensure that the 48V power supply is connected to the switch and the 19V 2A is connected to the NVR</li></ul>
No recorded video	<ul style="list-style-type: none"><li>- Check if the HDD is installed and connected properly.</li></ul>
NVR keeps rebooting	<ul style="list-style-type: none"><li>- Ensure that the 19V 2A is connected to the NVR</li></ul>
HDD detection failed	<ul style="list-style-type: none"><li>- Ensure that the 19V 2A is connected to the NVR</li></ul>
Can't detect your USB flash drive	<ul style="list-style-type: none"><li>- Use another USB flash drive to test.</li><li>- Ensure it is formatted to FAT32.</li></ul>
Can't view the NVR images over the network with web browser	<ul style="list-style-type: none"><li>- Update the JAVA program</li><li>- Ensure you have installed the ActiveX</li></ul>

***This guide is intended as a Quick Set Up and Basic use manual only, please refer to the user manual on the included CD for all other details.***

## Limited Warranty

Cornick Pty Ltd (Seller) warrants its products to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for forty eight months from the date of original purchase. Sellers obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any part which is proved not in compliance with Sellers specifications or proves defective in materials or workmanship under normal use and service. Seller shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than Seller.

**For Warranty Service:** Return transportation prepaid with a copy of your purchase receipt and contact details to:

**RhinoCo Technology, 9 Hannabus Place, McGraths Hill, NSW 2756 Australia.**

Seller has no obligation to attend the buyer's location to retrieve the goods or make repairs onsite.

- There are no warranties, expressed or implied, of merchant ability, or fitness for a particular purpose or otherwise, which extend beyond the description on the face hereof. In no case shall seller be liable to anyone for any consequential or incidental damages for breach of this or any other warranty, express or implied, or upon any other basis of liability whatsoever, even the loss or damage is caused by its own negligence or fault.
- Seller does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the products will in all cases provide adequate warning or protection. Customer understands that a properly installed and maintained alarm system or video surveillance system may only reduce the risk of a burglary, robbery, or fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result.
- Consequently, seller shall have no liability for any personal injury; property damage or other loss based on a claim the product failed to give any warning. However, if seller is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regard less of cause or origin, seller's maximum liability shall not in any case exceed the purchase price of the product, which shall be the complete and exclusive remedy against seller.
- This warranty replaces any previous warranties and is the only warranty made by the Seller on this product. No increase or alteration, written or verbal, of the obligations of this Limited Warranty is authorised.

Please refer to the website ([www.watchguardalarms.com.au](http://www.watchguardalarms.com.au)) for a full list of trading terms.



PLEASE CUT OUT & RETURN THIS INFORMATION  
WITHIN 14 DAYS OF PURCHASE TO:

**RhinoCo Technology**  
9 Hannabus Place  
McGraths Hill NSW 2756 Australia



## Model: NVR4ENTPACK Professional Surveillance Pack Warranty Card

Name

Address

Suburb

State

Postcode

Email

Date of Purchase

Invoice Number

Daytime Phone

Where did you purchase your NVR4ENTPACK?

Store Location

This information will only be used by the manufacturer and will not be sold to any third parties.

Dear Customer,

We appreciate your confidence in our product, and you can be certain that we will do everything possible to ensure that you are happy with your decision and that you have years of satisfaction from your NVR4ENTPACK.

We take extreme care in the research, design and development of our products to ensure they meet your needs. Additionally, we keep in close contact with our dealers Australia wide, and should any problem occur, we will work closely with your local dealer to see that it is resolved quickly.

As a leading designer and manufacturer, we are continually endeavouring to exceed the expectations of our customers. Furthermore, we appreciate your input regarding potential design improvements, issues regarding our service and support, and any other ideas you may have which could help us to serve you better.

Please make any comments you have here:

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