



MODELS: NVRX4, NVRX8, NVRX16

Network Video Recorder

Quick Installation Guide



Read through this Quick Installation Guide before installing and using this unit. For more detailed information please read the User Manual on the enclosed CD.

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1. Main Features

Powerful & Flexible

➤ **Real Time Recording Resolution**

4-Ch: 120fps@D1, 120fps@1280 x 720 and 120fps@1920 x1080

8-Ch: 240fps@D1, 240fps@1280 x 720 and 240fps@1920 x1080

16-Ch: 480fps@D1, 480fps@1280 x 720 and 480fps@1920 x1080

➤ **Quadraplex**

Recording + Search + Archiving + Network

➤ **Dual Stream**

Dual Stream is the most powerful technology to separately encode the recording and network frames of the DVR. The recording and network frames can be respectively selected in the DVR setup. This means users are able to set the frame rate according to their own needs; for fast network speeds and/or to minimise network traffic whilst keeping full recording frames.

➤ **Simultaneous Video and Spot Monitor Outputs**

1 VGA (1024 x 768) + 1 CVBS

1 VGA (1280 x 1024) + 1 (or 2) Spot

Easy To Use

➤ **Quick Setup: Automatic HDD Capacity Calculation**

NVRX products support the most convenient solution for a first time NVR set up. Enter the days for the recording duration and the DVR sets up the recording parameters (such as resolution, frame rate and quality). It is a useful and easy way for the end user to estimate how long the HDD can record for.

➤ **Individual Channel Operation**

The resolution for each channel can be set individually. This feature provides the end user with easy HDD maintenance and to efficiently get high video quality on a specific channel. For instance, to get a higher resolution on a camera covering a cash till position.

➤ **Remote Setup**

This product provides the user with a convenient management solution using the remote configuration single client and multi client software and web viewer via Internet Explorer. User is able to control the Display, Recording, Device etc. of the DVR from a remote site; wherever it is.

➤ **Mobile Viewer (iPhone, Android)**

Mobile applications make real time monitoring available anytime, anywhere. Currently, iPhone and Android applications are ready. Search "NVRX Manager" on the Apple store and Google Play (Android). It's free.

➤ **S.M.A.R.T**

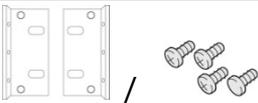
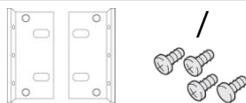
S.M.A.R.T is the function which checks the hard disk health status at regular intervals. Hard disks have moving parts and are very temperature and shock sensitive. User sets a specific temperature, and when the temperature inside the NVRX is exceeded, the NVRX gives the end user notification by beeping and alarming before the situation becomes troublesome.

2. NVRX Series 4, 8 and 16-Channel



2-1. Product Components

The package contains the main unit and the components specified below. When you purchase the unit, please check to ensure the components specified below are included.

NVRX Unit		Mouse (Optional)	
Client Software CD / Quick Installation Guide		Remote Control / Battery	
DVDRW Mounting Bracket & Screws		HDD Mounting Bracket & Screw	
HDD & DVDRW Fixing Screws		HDD Data Power Cable	
Adaptor (DC12V 5A) & Power Cable		Adapter 48V 2A & Power Cable	

	4, 8 and 16-Channel NVRX	
	DVD-RW Version	Basic Version
HDD Data Power Cable	1EA	2EA
HDD mounting Bracket	1EA	2EA
HDD Mounting Bracket Screw	4EA	8EA
DVD-RW Mounting Bracket	1EA	NA
DVD-RW Mounting Bracket Screw	4EA	
HDD/DVD-RW Fixing Screw	8EA	8EA

2-2. Specification

MODEL		NVRX4		NVRX8		NVRX16		
Video	Input	IP Camera	4 (20Mbps)		8 (40Mbps)		16 (40Mbps)	
		Resolution	Max. 1920x1080					
	Output	Main Monitor	VGA and HDMI					
		Sub Monitor	CVBS					
Audio	Input	IP Camera (Network)	4		8		16	
		Local Input (RCA)	4		8		16	
	Output	Local Output (RCA)	1					
	Audio Codec		G.711					
Event	Sensor In	IP Camera (Network)	4		8		16	
		Local Input (Terminal Block)	4					
	Local Alarm Output (Terminal Block)		1					
	Motion Detection (from IP Camera)		Yes					
Serial	RS232C		Yes, Diagnostic Only					
	RS485		Yes					
Network	Private (IP Camera, Auto Connection)		4 PSE		8 PSE		8 PSE	
	LAN (IP Camera, Remote Access)		10/100 Base-T					
	Protocols		TCP/IP, UDP, DHCP, HTTP, NTP, SMTP, RTP, RTSP, ONVIF					
Live	Frame Rate		Max. 120fps		Max. 240fps		Max. 480fps	
Recording	Frame Rate		120fps@D1 120fps@1280x720 120fps@1920x1080		240fps@D1 240fps@1280x720 240fps@1920x1080		480fps@D1 480fps@1280x720 480fps@1920x1080	
	Recording Mode		Continuous / Motion / Sensor / Schedule / Manual					
	Pre Recording		Max. 20 Minutes					
	Post Recording		Max. 60 Seconds					
Playback	Search		Quick Search, Date/Time, Event, Archive, Log					
	Multi-Decoding		1, 4		1, 4, 8		1, 4, 8, 16	
	Playback Speed		x0.25, x0.5, x2, x4, x8, x16, x32, x64					
Backup	Media		USB drive, External HDD, DVD-R, Network					
	File Format		BMP, AVI, Proprietary Format					
	Huge Backup		Yes (Max. 24 hours)					
Storage	HDD	Capacity of 1x HDD	2Tb		3Tb			
		No. of Internal HDD's	2					
		e-SATA	1					

	USB	Front	1
		Rear	1
User I/F	Input Method	Front Buttons, IR, Mouse, Keyboard Controller	
Features	Dynamic DNS	Yes (Free DDNS)	
	Digital Zoom	Yes	
	Daylight Saving	Yes	
	NTP (Network Time Protocol)	Yes	
	S.M.A.R.T	Yes	
	Internal Beep	Yes	
	Multi-Language	Yes	
	eMail Notification	Yes	
Network Access	3G Mobile	iPad / iPhone / Android	
	Web Viewer	Windows (IE, Chrome, Firefox, Safari), MAC(TBD)	
	PC Client	Single (Mac) / CMS (Windows) (64 channels)	
	Remote Setup and Upgrade	Yes	
Power	Power Supply Voltage	DC12V 5A + 48V 1A	DC12V 5A + 48V 2A
Temperature	Operation Temperature	5°C - 40°C (Storage: -10°C - +50°C)	
Weight	Unit Weight	4.1 Kgs	
	Gross Weight	6.2 Kgs	
Dimensions	Unit Dimension	380mm (W) x 340mm (H) x 72mm (D)	

Please note that specification and unit exterior design are subject to change without prior notification

2-3. Front Panel



NVRX Series Front Panel

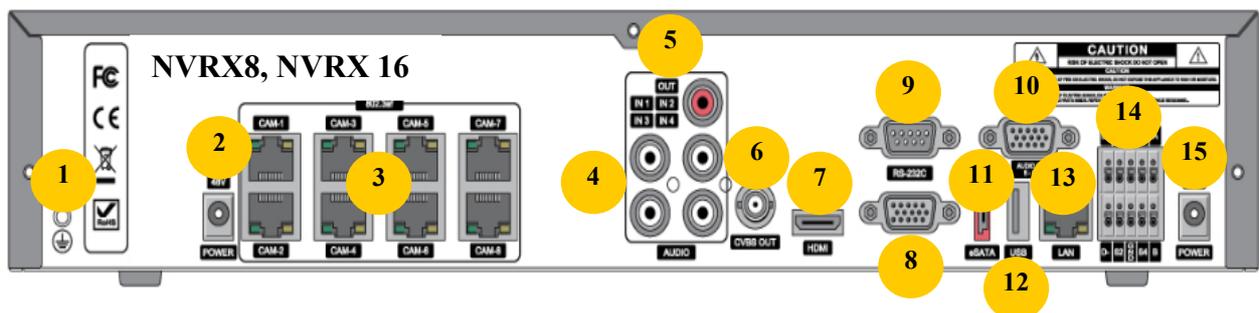
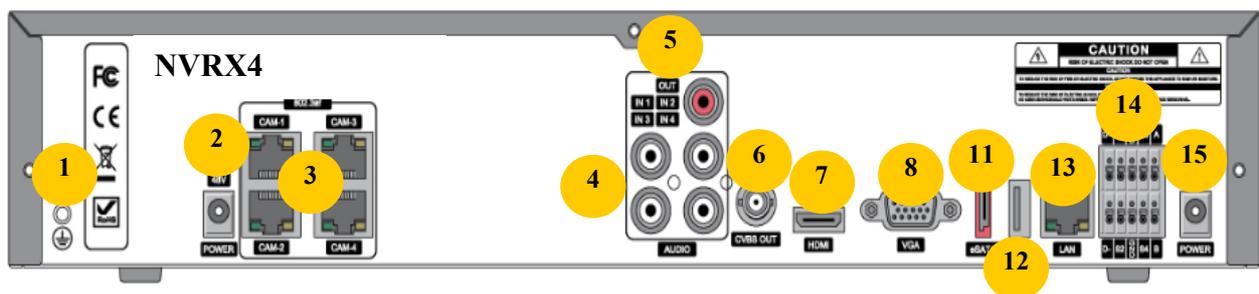
Table 3.1.1. NVRX Series Front LED's and Ports

	Description
POWER	LED is on when power is applied to the system.
HDD	LED is on when the system is recording video data
LAN	LED is on when connected to the network
ALARM	LED is on when alarm output is turned on
USB PORT	This port is for archiving footage onto an USB device (USB2.0 connector)

2-4. Rear Panel



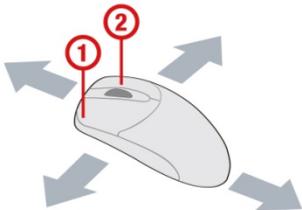
- Do not power this system on before all the connections are completed.
- Make sure all the connections are properly secured. Faulty connection may result in the system being damaged.



Rear Panel Connectors

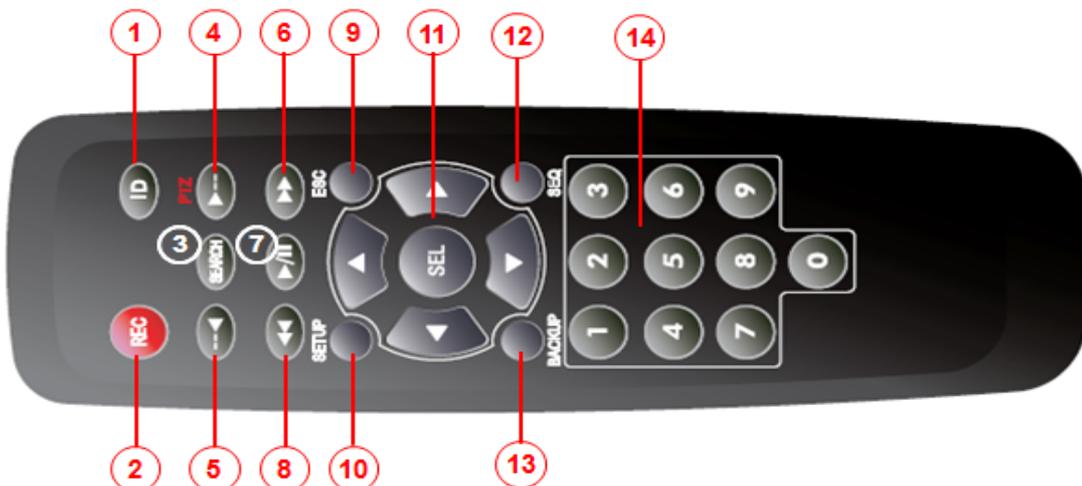
- ① Ground: Use for Ground Port
- ② POE POWER: DC48V Input
- ③ POE PORT: NVRX4 4-Port POE, NVRX8 & 16 8-Port PoE
- ④ AUDIO IN: 4 Connectors for Audio Input
- ⑤ AUDIO OUT: 1 Connector for Audio Output
- ⑥ CVBS OUT: MAIN – Composite Video Output
- ⑦ HDMI OUT: HDMI Video Output (1280 x 720, and 1920 x 1080)
- ⑧ VGA OUT: Connector for VGA Monitor. Main Video Output
- ⑨ RS232C: Diagnostic Port Only
- ⑩ AUDIO Ports: Audio Inputs for Channels 5-8 or 5-16 (8 & 16-Channel Only)
- ⑪ E-SATA: 1x External SATA Terminal
- ⑫ USB PORT: Connector for USB Mouse or USB Flash Memory
- ⑬ ETHERNET PORT: RJ45 Connector for Network Connection
- ⑭ SENSOR IN, ALARM OUT, RS-485: 4x Sensor Inputs, 1x Alarm Output and RS-485 for PTZ
- ⑮ POWER: DC12V Input

3. Basic Mouse Functions



- ① Left Button: SELECT Function
- ② Wheel: MOVEMENT Function on a Drop-Down Menu

4. Basic Remote Control Functions



Typical Remote Control

- ① ID: To Set the Remote Control ID.
- ② REC: To Start and Stop Manual Recording

- ③ SEARCH: To go to SEARCH Menu.
- ④ F/ADV:
 - During Playback – Moves the Playback Position 60 seconds Forwards
 - During Pause – Moves the Playback Position 1 Frame Forward
- ⑤ F/REW:
 - During Playback – Moves the Playback Position 60 seconds Backwards
 - During Pause – Moves the Playback Position 1 Frame Backward
- ⑥ FF: To Fast Forward the Recording.
- ⑦ PLAY/PAUSE: To Play or Pause the Recording in Playback Mode
- ⑧ REW: To Rewind the Recording
- ⑨ ESC:
 - During Setup – To Return to the Previous Menu Screen
 - During Playback – To Exit Playback Mode
 - System Lock – To Lock the System. Press the ESC Button for 5 Seconds
 - System Unlock – To Unlock the System. Press the ESC Button for 5 Seconds
- ⑩ SETUP: To Open the SETUP Menu
- ⑪ Direction Buttons: To Move Menu Items or Select a Channel
- ⑫ SEQ: To Start Auto Sequencing the Screen in Full Screen Mode (Toggle)
- ⑬ BACKUP: To Start a Backup Operation in Live or Playback Mode
- ⑭ 0~9: To Select a Channel, or Enter a NVRX ID Number, or Use as a Number Key

5. Mounting the HDD



1. Before installing the HDD bracket and screws.



2. After installing the HDD bracket and screws.



3. Install the HDD and Bracket onto the base of the case (inside).



4. Install the HDD and Bracket onto the base of the case (outside).



5. After connecting the power and data cables to the HDD.



6. A picture after installation of the HDD.

6. Quick Setup

1. NVRX LOGIN

LOGIN - SETUP

USER

PASSWORD

Default Password is "1111"

2. NVRX Network Quick Setting

QUICK INSTALLATION >

CONNECT

SETUP

SEARCH

CAMERA PTZ

SYSTEM INFORMATION

SYSTEM LOCK

SYSTEM SHUTDOWN

QUICK INSTALLATION LOCAL NETWORK SETTING

CONNECT IP CAMERA SETTING

SETUP

SEARCH

CAMERA PTZ

SYSTEM INFORMATION

SYSTEM LOCK

SYSTEM SHUTDOWN

2-1. NVRX Network Quick Setting

LOCAL NETWORK SETTING

NETWORK TYPE

DHCP

This option is to set the IP address and other settings automatically.

STATIC

This option is to set the IP address and other settings manually.

If DHCP IP address is "0.0.0.0", you should select the STATIC option.

- ① DHCP : Generate IP automatically
- ② STATIC : Set the fixed IP

LOCAL NETWORK SETTING

STATIC INFO

IP

SUBNET MASK

GATEWAY

DNS (PRIMARY)

DNS (SECONDARY)

Set STATIC IP

LOCAL NETWORK SETTING

STATIC INFO

IP

SUBNET MASK

GATEWAY

DNS (PRIMARY)

DNS (SECONDARY)

LOCAL NETWORK SETTING

PORT INFO

PORT

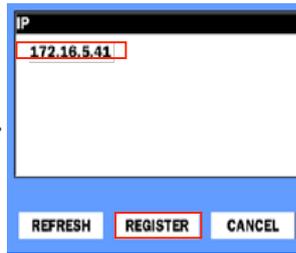
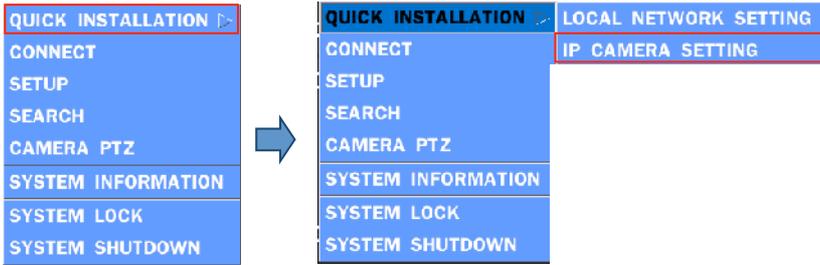
NETWORK AUDIO PORT

WEB PORT

DDNS

Set PORT

3. IP CAMERA Quick Setting

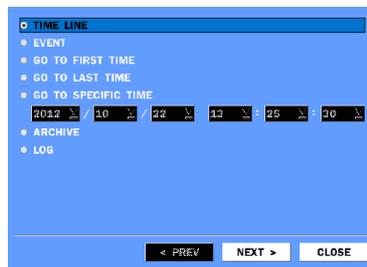


- ① CHANNEL: Select the channel.
- ② VENDOR: Select the camera brand.
- ③ SCAN: Find a camera automatically when the camera is connected with same IP sharer or distributor.
- ④ IP / PORT / PROTOCOL: Set the network when connected to a WAN.
- ⑤ NAME: Set the NVR Name.
- ⑤ PREVIEW: Check the camera screen before closing the window.
- ⑥ OK: Press "OK" when setting is complete.

4. SEARCH, PLAYBACK



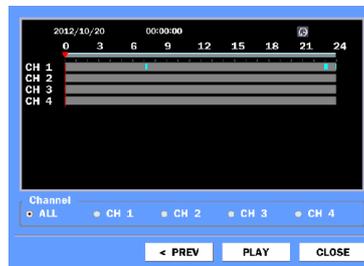
Select: Click" Button



Search Time Bar



Select the Date



Select the Time



Playback

For more detailed information about set-up, search, playback etc., please read the User Manual which is on the enclosed CD.



GENIE CCTV LTD.

CCTV House, City Park, Watchmead, Welwyn Garden City, Hertfordshire, AL7 1LT
Tel: +44 (0) 1707 330541 Fax: +44 (0) 1707 330543

www.geniecctv.com

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