4/8/16/32-Ch Network Video Recorder

NVR Series

Quick Installation Guide

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Chapter 1. Introduction

Thank you for purchasing the PLANET 4/8/16/32-Ch Network Video Recorder. The Network Video Recorder is designed for use within a surveillance system, and performs recordings and playbacks pictures from network cameras in the system. It is a recording device using a hard disk drive to record camera pictures instead of using video tapes so that pictures recorded by repeated overwriting will not experience deterioration of the recorded picture quality. Up to 4 (for NVR-420), 8 (for NVR-810), 16 (for NVR-1610) and 32 (for NVR-3210 and NVR-3250) cameras can be connected via a network and it is possible to record their camera pictures. It is possible to perform the settings or operate the NVR using a web browser installed on a PC connected to a network, or remote controller. Recorded video can be played back from remote site by a PC. Up to 4 PCs (web browsers) can access this unit concurrently and it is possible to perform the settings and operate this unit. The NVR is compatible with most major brand cameras and its ability to automatically search and find the available cameras on the network can greatly reduce the user effort when expanding the system.

1.1 Before Installation

Before installation, please be sure to read this quick installation guide and user's manual (CD) carefully to complete machine installation. This guide shows how to quick set up the NVR, unless model name specified terms "Network Video Recorder" will be used for these models.

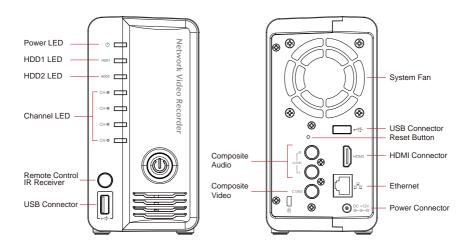
Chapter 2. Physical Description and Installation

2.1 4-Ch Network Video Recorder

2.1.1 NVR-420 Package Content

1 x NVR	1 x Power Co	ord	1 x Power Adapter
1 x RJ-45 Cable	1 x CD-ROM		8 x HDD Screw
1 x Remote controller		1 x Quick In	stallation Guide

2.1.2 NVR-420 Physical Details



LEDs	Color	Description
	Green	When NVR-420 is fully started
	Red	When NVR-420 is off, but power cord remains plugged in
Power	Amber	Blinking during system initialization, reboot, and firmware upgrade
	Off	When NVR-420 is off and the power cord is not plugged in

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	Green	Disk is online	
	Red	Disk error	
HDD1/2	Amber	Solid amber When NVR-420 is recording Blinking amber when the disk is recycling	
	Off	No disk or disk is offline	
Channel 1~4	Green	Solid green when NVR-420 is online Blinking during event triggered	
	Off	Disconnect or no camera is configured	

Connector	Description		
USB	Connect your USB flash disk for firmware upgrade and backup		
Reset	Press and hold reset button for 30 seconds to factory default		
HDMI	HDMI output		
Ethernet	10/100Mbps network		

2.1.3 NVR-420 HDD Installation

1. Locate the screws highlighted above on the back of the NVR.



2. Use a Philips screw driver to release the screws.



3. Slide opens the case as shown above.



4. One side of the housing can be detached as shown above.



5. Install the bottom HDD by slide it in to the tray diagonally to avoid the tray separator.



6. Once the HDD is placed into the tray, you should see a gap between the HDD and the SATA connector.



7. Attach the HDD to the SATA connector by sliding it towards the connector.



8. Make sure the screw holes on the HDD are aligned with the ones on the tray.



9. Secure the HDD with the screws provided in the accessory box with a Philips screw driver. There are four for each HDD; two for each side of the tray.



10. Install the top HDD by attaching it to the corresponding SATA cable first.



11. Make sure the HDD is securely attached.



12. Place the HDD to the tray and make sure the screw holes on the HDD are aligned with the ones on the tray.



13. Secure the HDD with the screws provided in the accessory box with a Philips screw driver. There are four for each HDD; two for each side of the tray.



14. Slide the side housing back to the unit.



15. Secure the housing with the screws highlighted above.



2.2 8/16-Ch Network Video Recorder

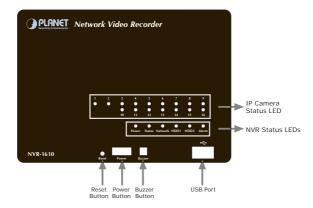
2.2.1 NVR-810 / NVR-1610 Package Content

1 x NVR	1 x Power Cord	1 x RJ-45 Cable
1 x CD-ROM	2 x HDD Screw	1 x Quick Installation Guide

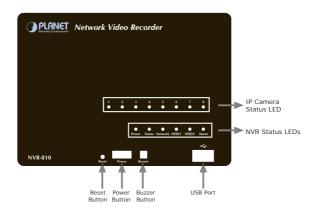
2.2.2 NVR-810 / NVR-1610 Physical Details

Front Panel

NVR-1610



NVR-810



LEDs	Color	Description	
	Green	Normal operation	
Power	Red	System off (power adapter remains plugged in)	
	Amber	Blinking amber indicating device is initializing	
	Green	Solid green when the hard disk is mounted and being accessed	
HDD1/2	Red	Solid red for disk fail	
HDD 1/2	Amber	Solid amber when disk is recording Blinking when recycling	

	A la	Called analysis for activity, on a 10 has naturally	
Network	Amber	Solid amber for activity on a 1G bps network	
Network	Green	Solid green for activity on a 10/100 Mbps network	
	Amber	Blinking during firmware upgrade	
Status	Green	Shows solid green for normal operation Blinking green when firmware upgrade is done	
	Red	Flashes red for failed firmware upgrade	
Alarm	Red	Blinking when an alarm occurs	
Alaim	None	When alarm is reset	
Green Solid green, live connected		Solid green, live connected with no event or recording activity	
	Amber	Blinking amber, manual or event recording is being performed	
Camera	Amber	Solid amber, schedule or continuous recording is being performed	
	Red	Recording is set but no video from camera	

Button	Description		
Reset	Press once to reset this device. Press over 10 seconds to reset to default settings.		
Power	Press to start or shut down.		
Buzzer	Press to on/off buzzer.		

Connector	Description	
USB	Connect your USB flash disk for firmware upgrade and backup.	

Rear panel



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Connector	Description		
AC	Connect the power cord to AC 100~240V power source.		
Ethernet	Supports 10/100/1000Base-T interface.		
RS-232	Connect to UPS.		
I/O	Pin Signal 1 DC IN 2 GND 3 Alarm Input 1 4 Alarm Input 2 5 Alarm Input 3 6 Alarm Input 4 7 Alarm Input 5 8 Alarm Input 5 8 Alarm Input 5 9 Alarm Input 7 10 Alarm Input 7 10 Alarm Input 8 11 Alarm Out 1 11 Alarm Out 1 12 Alarm Out 1 13 Alarm Out 2 13 Alarm Out 3 14 Alarm Out 4 15 RS-485+ 16 RS-485-		

2.2.3 NVR-810 / NVR-1610 Installation

2.2.3.1 Installing the Hard Disk Drive

1. Removing the screws on the side.





2. Push the top housing forward, then lift it up.





3. Removing the screws on the HDD Tray left and right side.





4. Insert the HDD to HDD tray. Please push the HDD until the SATA connect is connected properly, and lock the HDD Screw on left and right side.



5. If there is a second HDD, please repeat the step 4 to install it.



- 1. The NVR supports SATA I or SATA II hard disks
- 2. The NVR supports max. 3TB per hard disk and it supports total of 2 hard disks (6TB)

6. Place the top housing back and secure it with the bottom housing.



- 7. Connect the bundle power adapter to the power connector in rear panel.
- 8. Press power button to power on your NVR.

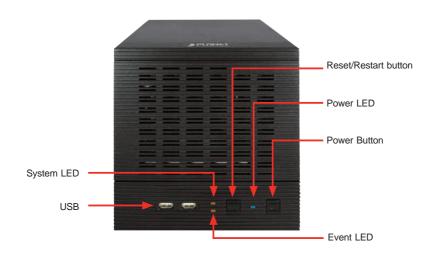
2.3 32-Ch Network Video Recorder

2.3.1 NVR-3210 Package Content

1 x NVR	1 x Power Cord	1 x RJ-45 Cable
1 x CD-ROM	12 x HDD Screw	1 x Quick Installation Guide
4 x HDD Tray Key		

2.3.2 NVR-3210 Physical Details

Front Panel

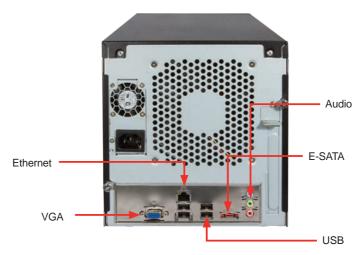


LEDs	Color	Description
System	Amber	Firmware upgrade: blinking System failure (AP fail): off System normal: solid
Event	Amber	Event recording: solid No event: off
Power	Blue	Power on/Restart/Reset to default/OS fail: stays solid

Button	Description
Reset/Restart	Press and release for restart. Press over 3 seconds to reset to default settings. System LED blinks until release of the button
Power	Press to start or shut down.

Connector	Description	
USB	Connect your USB flash disk for firmware upgrade and backup.	

Rear panel



Connector	Description	
USB	Connect your USB flash disk for firmware upgrade and backup.	
VGA	VGA output	
E-SATA	External E-SATA HDD	
Ethernet	10/100/1000 Mbps network.	
Audio	Line in/Line out/Mic	

2.3.3 NVR-3210 Installation

2.3.3.1 Installing the Hard Disk Drive

1. Release the HDD tray by pulling the lock to the right.



2. Pull the HDD tray out of the case.



3. Place the HDD in the tray and the bottom of the tray.



4. Put the HDD tray back to the case.



5. Push the tray door back to the case to secure it.

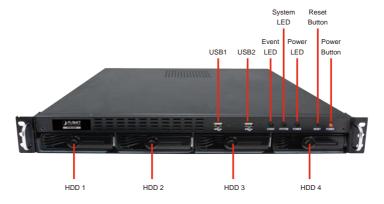


2.3.4 NVR-3250 Package Content

1 x NVR	1 x Power Cord	1 x RJ-45 Cable
1 x CD-ROM	16 x HDD Screw	2 x Angle bar
4 x Angle Screw	4 x Handle Screw	2 x Handle kit
1 x Quick Installation Guide		

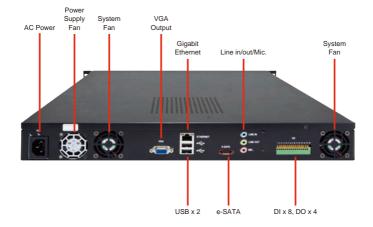
2.3.5 NVR-3250 Physical Details

Front Panel



LEDs	Color	Description
Power	Blue	During power on / restart / reset to default / OS fail: Stays solid
System	Amber	During firmware upgrade: Blinking System failure (AP fail): Off System Normal: Solid
Event	Amber	During event recording: Solid No event: Off

Rear Panel



Connector	Description	
VGA	VGA output	
Ethernet	10/100/1000Mbps network	
USB	Connect your USB flash disk for firmware upgrade and backup	
E-SATA	External E-SATA HDD	
Audio	Line in/Line out/Mic	
1/0	DI x 8 / DO x 4	

2.3.6 NVR-3250 HDD Installation

1. Start by removing the front plate.



2. To remove the front plate, turn the tool-less screws on both sides counter-clock wise to loose it from the unit. Please note the screws will still be attached to the front plate even after the screws are completely loosened from the unit.



3. Simply pull to remove the front plate once the screws are loosened from the unit.



4. Remove the HDD tray by pulling the latch.



5. Push the tray door back to the case to secure it.



6. Once the tray is removed from the unit, notice there are four holes, which are used to secure the HDD.



7. Once the HDD is placed in the tray, flip it over and secure the HDD with the screws.



8. Push the tray back in to the unit and push it all the way in.



9. Secure the tray by pushing in the latch, which locks the tray with the unit.



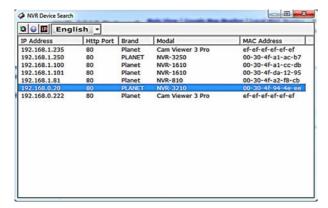
2.4 Web Management

Install "Device Search" utility from the CD

1. Please go to Start => Programs => NVR => Search NVR to run the search tool. Then you will see the utility start search the network.



2. The NVR should be located and its IP address should be displayed: Double-click on it and the program should automatically access the NVR's web administration page from your default browser.



3. Login the Homepage

The Web management allows you to access and manage the Network Video Recorder easily. Launch the Web browser and then enter the IP address. The default IP address is 192.168.0.20. And, fill the User Name and Password to login the Web management. The default User Name / Password is admin / admin.







Further configurations and information can be found in the user's manual CD. Please check the user's manual for more understanding.