

# **8/16/32-Ch Network Video Recorder**

## **NVR Series**

### **Quick Installation Guide**

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## ***Chapter 1. Introduction***

Thank you for purchasing PLANET 8/16/32-Ch Network Video Recorder. The Network Video Recorder is designed for use within a surveillance system, and performs recordings and playbacks 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 8 (for NVR-820), 16 (for NVR-1620) and 32 (for NVR-3210, NVR-3250 and NVR-3280) 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 via 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 quickly set up the NVR.

## Chapter 2. Physical Description and Installation

### 2.1 NVR-820 / NVR-1620 8/16-Ch Network Video Recorder

#### 2.1.1 Package Contents

1 x NVR	1 x Power Cord	1 x Power Adapter
1 x CD-ROM	8 x HDD Screw	2 x SATA Cable
2 x HDD Bracket	4 x Bracket Screw	1 set x Feet Pad
1 x Quick Installation Guide		

#### 2.1.2 Physical Details

##### Front Panel

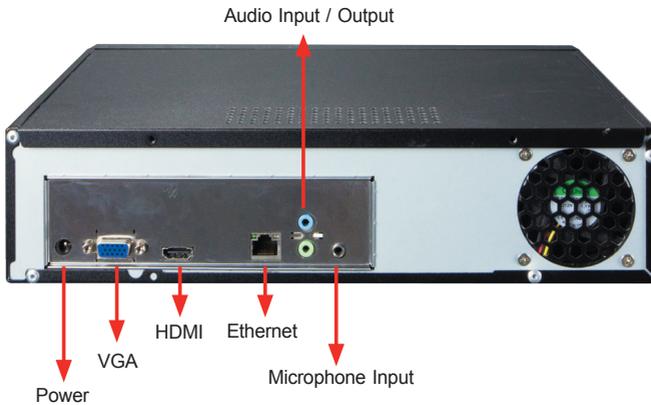
##### NVR-1620



##### NVR-820



## Rear Panel



LED	Status	Definitions
Power	Green	Solid green indicates normal operation. Slow blinking in green after pressing and holding the reset button for 5 seconds indicates the device will enter the restore default process. Other LEDs remain unchanged during this state.
	Red	System off (with power cord still plugged in)
	Amber	Fast blinking in amber indicates the system is initializing/starting. Continuous blinking indicates the system is unable to start properly (All other LEDs should be off when this LED is blinking in amber). Slow blinking indicates the system is shutting down.
Buttons	Status	Definitions
Power	On	Press and hold for 2 seconds
	Off	Press and hold for 2 seconds
Reset	Restore default	Press and hold for 5 seconds
	Restart	Press and hold for 2 seconds
Buzzer	Status	Definitions
Beep	Complete start	Beeping once indicates the system is fully started.
	Initiating restart	Beeping once indicates the restart process has begun.
	Initiating shutdown	It beeps once during the shutdown process after releasing the power button.

### 2.1.3 HDD Installation

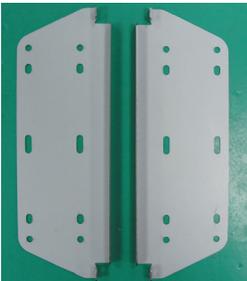
1. Remove the screws on back side.



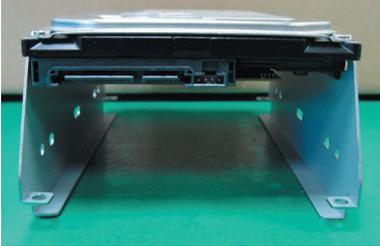
2. Remove the top case by pulling it toward you.



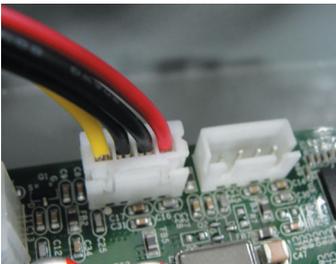
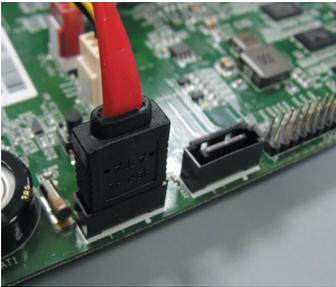
3. Prepare HDD brackets.



4. Fix the HDD on bracket with screws; you can install two HDDs with brackets.



5. Prepare SATA cable and install it on SATA data connector and SATA power connector.



6. Install SATA cable on the HDD.



7. Fix HDD brackets on system with screws.



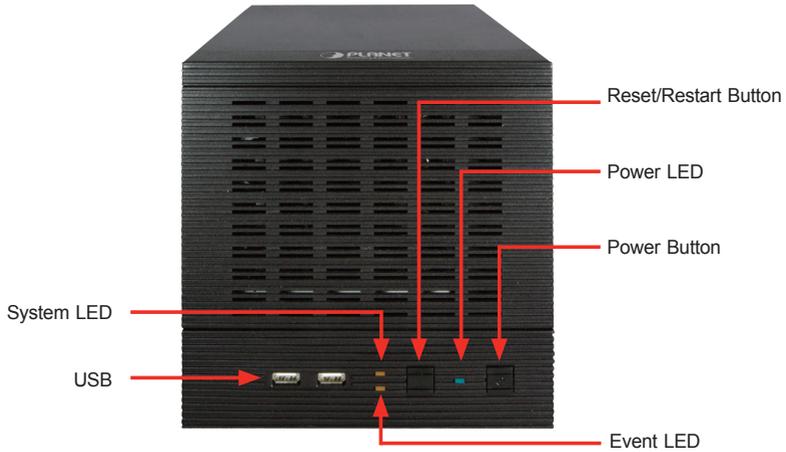
## 2.2 NVR-3210 32-Ch Network Video Recorder

### 2.2.1 Package Contents

1 x NVR	1 x Power Cord	1 x RJ45 Cable
1 x CD-ROM	12 x HDD Screw	1 x Quick Installation Guide
4 x HDD Tray Key		

## 2.2.2 Physical Details

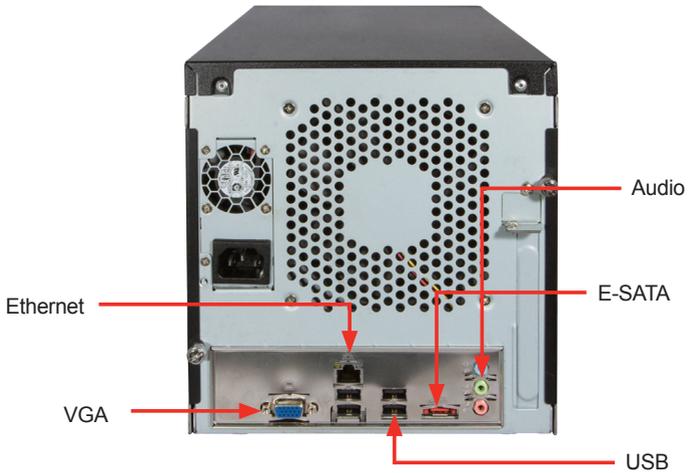
### Front Panel



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

Button	Description
Reset/Restart	Press and release for restart. Press over 3 seconds to reset to default settings. Don't release the button until the system LED blinks.
Power	Press to start or shut down.

## 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	10/100/1000Mbps network
Audio	Line in / Line out / Mic.

### 2.2.3 HDD Installation

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 on 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.



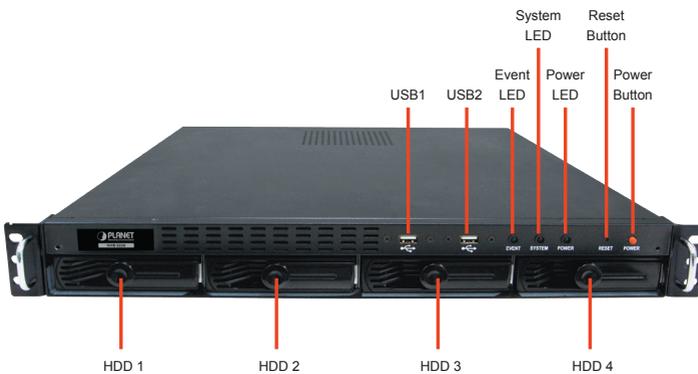
## 2.3 NVR-3250 32-Ch Rack-mount Network Video Recorder

### 2.3.1 Package Contents

1 x NVR	1 x Power Cord	1 x RJ45 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		

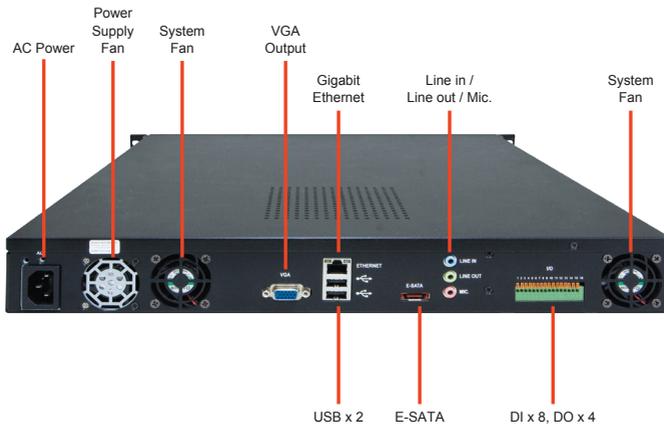
### 2.3.2 Physical Details

#### Front Panel



LEDs	Color	Description
Power	Blue	During power on / restart / reset to default / OS failure: solid
System	Amber	During firmware upgrade: blinking System failure (AP failure): 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.
I/O	DI x 8 / DO x 4

### 2.3.3 HDD Installation

1. Start by removing the front plate.



2. To remove the front plate, turn the tool-less screws on both sides counter-clockwise to loosen 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. Pull out the HDD tray by the latch.



5. Pull out the HDD tray further to be removed.



6. Once the tray is removed from the unit, note 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 into 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.



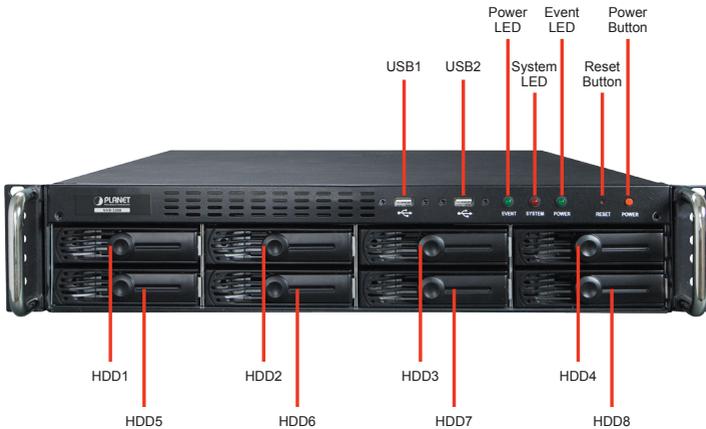
## 2.4 NVR-3280 32-Ch Rack-mount Network Video Recorder with 8-bay Hard Disks

### 2.4.1 Package Contents

1 x NVR	1 x Power Cord	1 x RJ45 Cable
1 x CD-ROM	32 x HDD Screw	2 x Angle Bar
4 x Angle Screw	4 x Handle Screw	2 x Handle Kit
1 x Quick Installation Guide		

### 2.4.2 Physical Details

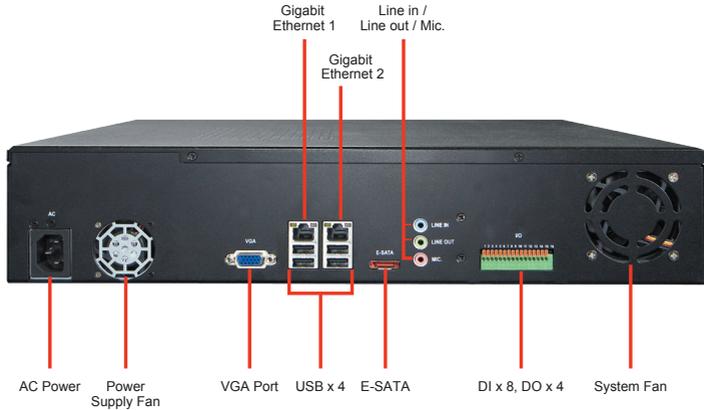
#### Front Panel



LEDs	Color	Description
System	Red	Firmware upgrade: blinking System failure (AP failed): off System normal: solid
Event	Green	Event recording: solid No event: off
Power	Green	Power on / Restart / Reset to default / OS failed: solid

Button	Description
Reset/Restart	Press and release for restart. Press over 3 seconds to reset to default settings. Don't release the button until the system LED blinks.
Power	Press to start or shut down.

## Rear Panel



Connector	Description
VGA	VGA output
Ethernet	Dual 10/100/1000Mbps; the second Ethernet port is reserved for external storage device in the future
USB	Connect your USB flash disk for firmware upgrade and backup
E-SATA	External E-SATA HDD
Audio	Line in / Line out / Mic.
I/O	DI x 8 / DO x 4

### 2.4.3 HDD Installation

1. Start by removing the front plate.



2. To remove the front plate, turn the tool-less screws on both sides counter-clockwise to loosen 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. Pull out the HDD tray by the latch.



5. Pull out the HDD tray further to be removed.



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



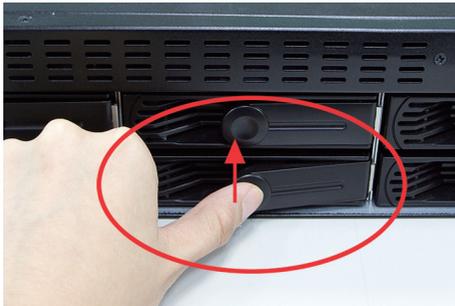
7. Once the HDD is placed in the tray, flip it over and secure the HDD with the screws.



8. Push the tray back into 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.



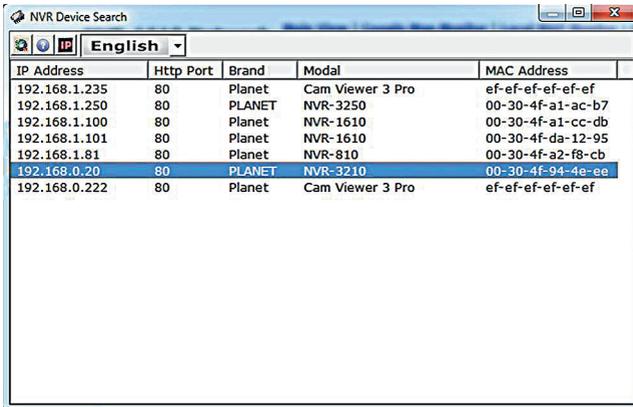
## 2.5 Web Management

### Install "Search Device" utility from the CD

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



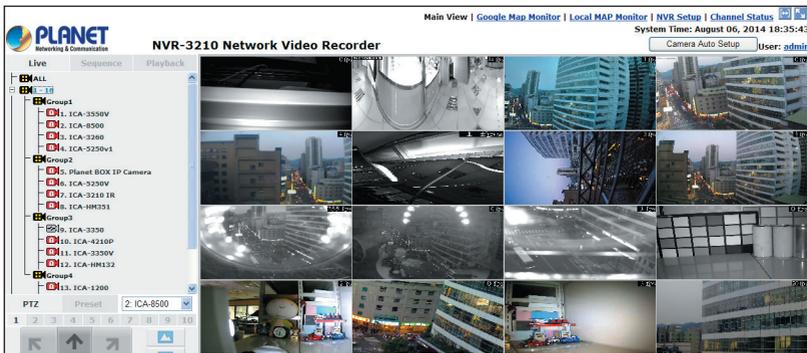
2. The NVR should be located and its IP address should be displayed: Double-click on it and the program should automatically access the NVR's web administration page from your default browser.

A screenshot of the "NVR Device Search" utility window. The window title is "NVR Device Search" and it has a language dropdown menu set to "English". The main area contains a table with the following data:

IP Address	Http Port	Brand	Model	MAC Address
192.168.1.235	80	Planet	Cam Viewer 3 Pro	ef-ef-ef-ef-ef-ef
192.168.1.250	80	PLANET	NVR-3250	00-30-4f-a1-ac-b7
192.168.1.100	80	Planet	NVR-1610	00-30-4f-a1-cc-db
192.168.1.101	80	Planet	NVR-1610	00-30-4f-da-12-95
192.168.1.81	80	Planet	NVR-810	00-30-4f-a2-f8-cb
192.168.0.20	80	PLANET	NVR-3210	00-30-4f-94-48-ee
192.168.0.222	80	Planet	Cam Viewer 3 Pro	ef-ef-ef-ef-ef-ef

### 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 out the User Name and Password to login the Web management. The default User Name and Password are both **admin**.



Further configurations and information can be found in the user's manual (CD).

