



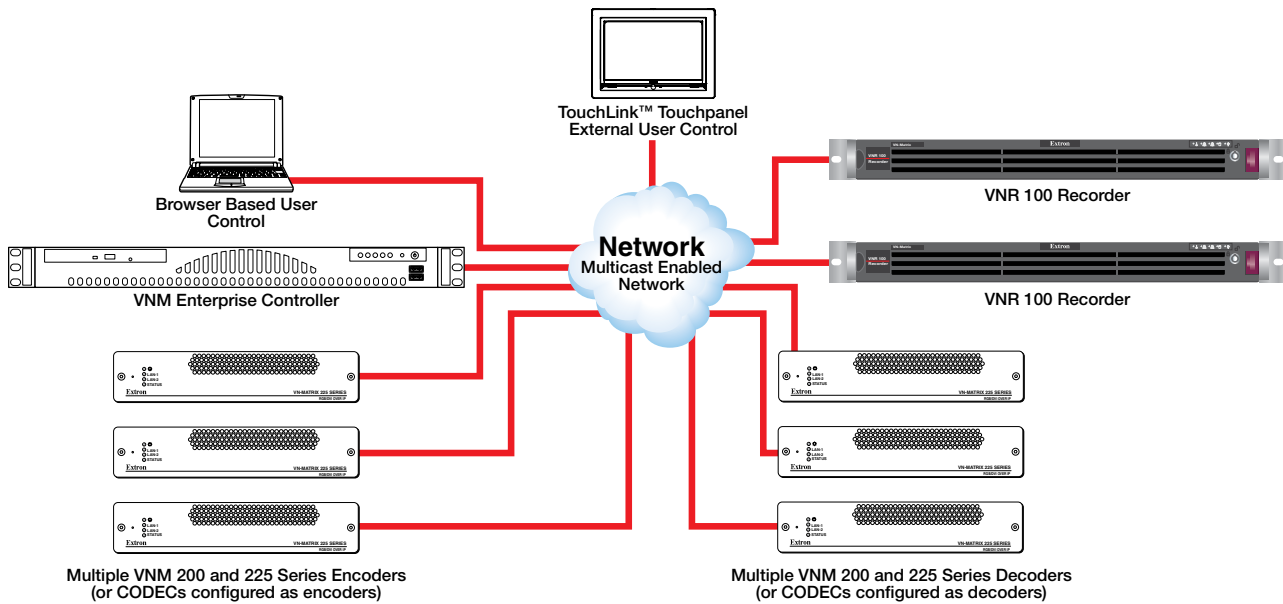
**IMPORTANT:**  
Refer to [www.extron.com](http://www.extron.com) for the complete user guide and installation instructions before connecting the product to the power source.

## VNR 100 • Setup Guide

The Extron VNR 100 recorder is a network storage device capable of recording and playing back PURE3 video, audio, and data streams from VN-Matrix codecs and encoders in a VN-Matrix system. The system must be under the control of an Extron VNM Enterprise Controller.

This guide provides basic instructions for an experienced installer to configure and operate a VNR 100 recorder.

**NOTE:** For complete instructions about mounting, installation, and network configuration, see the *VNR 100 User Guide* and the *VNM Enterprise Controller User Guide* at [www.extron.com](http://www.extron.com).



### Installation

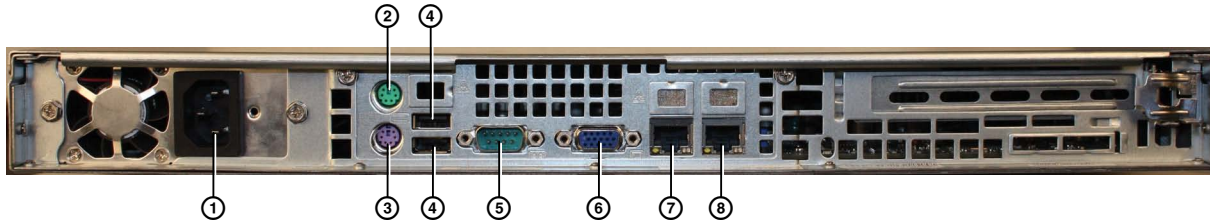
1. Mount the VNR 100 using the provided rack mount kit (see [Mounting](#), below).
2. Connect a standard IEC power cord to the rear panel connector (see [Rear Panel Features](#) on page 2).
3. Connect the VNR 100 to the same network as the VNM Enterprise Controller, using Ethernet port 0 (see [Rear Panel Features](#) on page 2).
4. Power on the VNR 100 (see [VNR 100 Power Up Procedure](#) on page 3).
5. Use a computer on the same network to carry out the initial configuration (see [VNR 100 Initial Configuration](#) on page 3).
6. Use the VNM Enterprise Controller to configure the VNR 100 (see [Getting Started with the VNM Enterprise Controller](#) on page 4).
7. If it becomes necessary to power down the VNR 100, see [VNR 100 Power Down Procedure](#) on page 3.

### Mounting

The VNR 100 can be mounted in a rack, using the provided kit. See the *VNR 100 User Guide* at [www.extron.com](http://www.extron.com) for UL guidelines for rack mounting and complete mounting instructions.

# VNR 100 • Setup Guide (Continued)

## Rear Panel Features



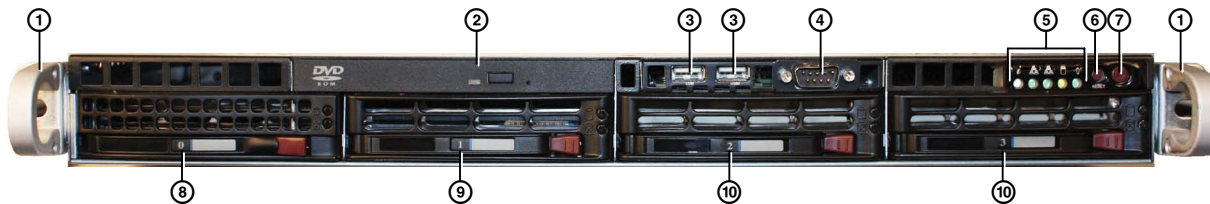
- ① **AC power connector** — use a standard IEC power cord to connect the recorder to a 100 to 240 VAC, 50 or 60 Hz power source.
- ② **PS/2 port for mouse (optional)** — connect a PS/2 mouse to this port, if required.
- ③ **PS/2 port for computer keyboard (optional)** — connect a PS/2 keyboard to this port, if required.
- ④ **USB ports (2)** — may also be used to connect a mouse and keyboard for initial configuration. In total, there are four USB inputs, two on the rear panel and two on the front panel.
- ⑤ **RS-232 control port** — use an Extron control cable (not provided) to connect the VNR 100 to a control PC.
- ⑥ **VGA output connector** — connect a local VGA monitor to this output.
- ⑦ **Ethernet port 0 (eth0)** — use an RJ-45 cable to connect this port to the primary network (the VN-Matrix network).
- ⑧ **Ethernet port 1 (eth1)** — is not functional. Do not connect this port to the network.

## Front Panel Cover

The front panel has a lockable cover to prevent unauthorized access to the removable drives. When the cover is in place, the DVD player, USB ports, and serial ports are not available for use. To install or remove the front cover, see the *VNR 100 User Guide* at [www.extron.com](http://www.extron.com).

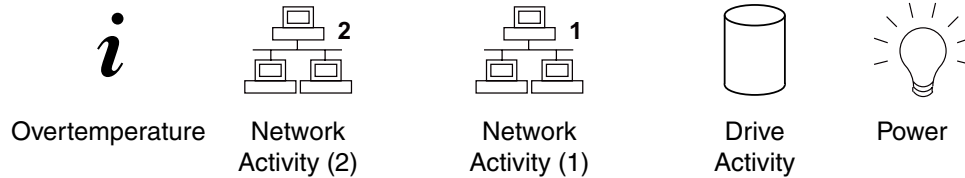


## Front Panel Features



- ① **Handles (2)** — for sliding the unit in and out of the mounting rack and securing the front panel bezel. Do not use the handles for lifting the recorder.
- ② **CD and DVD drive** — used for system updates or software installation.
- ③ **USB ports** — used to connect a mouse and keyboard for initial configuration. There are a total of four USB ports: two front panel and two rear panel.
- ④ **RS-232 Comm port** — Insert a 9-pin RS-232 cable to connect the unit to a control PC.

⑤ **Status LEDs** — five LEDs providing information about:



- a. The Overtemperature LED flashes yellow when a fan fails. It lights yellow solidly when the internal temperature is too high (this may be caused by high ambient temperature or a fan that is obstructed).
- b. Network 2 is not active, so this LED does not light.
- c. The Network Activity (1) LED flashes green when there is activity on Network 1.
- d. The Drive Activity LED flashes yellow when the hard drive is in use.
- e. The Power LED lights green when the unit is receiving power.

⑥ **Reset button** — is used to reboot the VNR 100.

⑦ **Power button** — used to apply or turn off the main power. When main power is turned off, standby power is actively supplied to the recorder.

⑧ **OS drive** — houses the solid state operating system drive (removable).

⑨ **Media drive** — houses the media drive (removable).

⑩ **Spare drive bays (2)** — are not used. They must not have drives fitted.

**ATTENTION:**

- Do not remove the OS drive or media drive while the VNR 100 is powered on.
- For complete instructions about replacing the OS drive, see the *VNR 100 O/S Drive Replacement Kit Installation Guide* at [www.extron.com](http://www.extron.com).
- For complete instructions about replacing the media drive, see the *VNR 100 Media Drive Replacement Kit Installation Guide* at [www.extron.com](http://www.extron.com).

## VNR 100 Power Up Procedure

**NOTE:** Before powering up the VNR 100, ensure all necessary devices are connected correctly and powered up.

Power up the VNR 100 by pressing the power button (see [Front Panel Features figure](#), ⑦). The VNR 100 boots up.

## VNR 100 Power Down Procedure

Power down the VNR 100 by pressing and releasing the power button (see [Front Panel Features figure](#), ⑦). The recorder takes approximately 20 - 30 seconds to power down.

## VNR 100 Initial Configuration

### Network Considerations

Before connecting the VNR 100 recorder to the network, you need to know the network settings of both the VNR 100 and the VNM Enterprise Controller. The following are the default settings. Check with your network administrator to be sure they still apply to your unit:

Network settings (ETH0)	IP address	192.168.254.254
	Subnet mask	255.255.255.0
	Gateway address	192.168.254.253
	Port	8080
Controller	IP address	192.168.254.254
	Port	5432
Configuration	User name	config
	Password	config

# VNR 100 • Setup Guide (Continued)

1. Use a computer connected to the same network as the VNR 100. In the browser address bar, enter the IP address of the recorder, followed by a colon (:) and the port number. By default, this is 192.168.254.254:8080. Contact your network administrator to be sure these values have not changed.

The login screen opens (see figure at right).



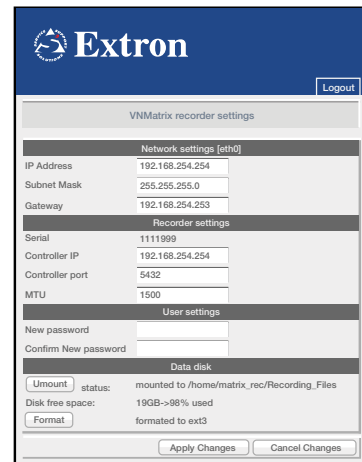
2. Enter the **Username** and **Password**.

**NOTE:** By default, both the **Username** and **Password** are config.

3. Click **Login**. The VNR 100 Recorder Settings page opens (see figure at right).
4. Enter the **IP Address**, **Subnet Mask**, and **Gateway Address** of the recorder.
5. Enter the **Controller IP** address, **Controller port** number and maximum transmission unit (**MTU**) setting for the controller. Contact your network administrator to ensure you have the correct values.

**ATTENTION:** The VNM Enterprise Controller port number is used by all VN-Matrix devices to communicate with the VNM Enterprise Controller. The value should only be changed if the VNM Enterprise Controller has been configured to accept communications on a different port number.

Under normal circumstances, the setting should remain at the default value (5432).

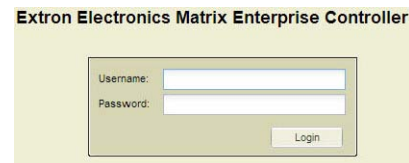


6. Enter a **New password** and **Confirm New password**.
7. Click **Apply Changes** to save the settings (or **Cancel Changes** to exit without saving the information).

## Getting Started with VNM Enterprise Controller

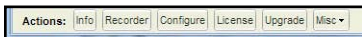
The VNM Enterprise Controller must be on the same network as the VNR 100.

1. Use a PC on the same network as the controller to access the controller website. In the browser address bar, enter the controller IP address. The Login screen opens (see figure at right).
2. Enter the **Username** and **Password**.



**NOTE:** By default, for the VNM Enterprise Controller, the **Username** is admin. Leave the **Password** blank (no entry is required).

3. Click **Login**. The Enterprise Controller device list opens (see the figure to the right).
4. Check the box next to the VNR 100 recorder. A series of action buttons appear at the bottom of the screen (see figure below).



See the Enterprise Controller User Guide (at [www.extron.com](http://www.extron.com)) for complete information about configuring and using the VNR 100.

Status	Mode	Device Id	Device Name	IP Address	Controller	Device Type	Version
●	OV	1021144	VND200_1	10.90.0.22	10.90.0.41	VND 200 DVI	ver3.11.0
●	OV	1021150	VNE200_1	10.90.0.21	10.90.0.41	VNE 200 DVI	ver3.11.0
●	OV	11211558	VND300_3	10.90.0.116	10.90.0.41	VNC 325 3G-SDI	ver4.5g
●	OV	11211580	VND200_2	10.90.0.26	10.90.0.41	VNC 200 DVI-A	ver3.11.0
●	OV	11211568	VNE200_2	10.90.0.25	10.90.0.41	VNC 200 DVI-A	ver3.11.0
●	OV	11211570	VNE300_3	10.90.0.115	10.90.0.41	VNC 325 3G-SDI	ver4.5g
●	OV	11212365	VNE225_1	10.90.0.50	10.90.0.41	VNC 200 DVI-A	ver3.11.0
●	OV	2000289	ENG_UNIT	10.90.0.121	10.90.0.41	VNC 200 DVI-A	ver3.11.0
●	OV	2001067	VNR100	10.90.0.120	10.90.0.41	VNM Recorder	ver9.2.1

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