IndigoVision

Enterprise NVR-AS 4000 G3 2U Windows Appliance

Quick Start Guide

IndigoVision

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Dell Software License Agreement

BEFORE USING YOUR SYSTEM, READ THE DELL SOFTWARE LICENSE AGREEMENT THAT CAME WITH YOUR SYSTEM. YOU MUST CONSIDER ANY MEDIA OF DELL-INSTALLED SOFTWARE AS BACKUP COPIES OF THE SOFTWARE INSTALLED ON YOUR SYSTEM'S HARD DRIVE. IF YOU DO NOT ACCEPT THE TERMS OF THE AGREEMENT, CALL THE CUSTOMER ASSISTANCE TELEPHONE NUMBER.

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Safety notices

This guide uses the following formats for safety notices:

⚠️
Warning

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠️
Caution

Indicates a hazardous situation which, if not avoided, could result in moderate injury, damage the product, or lead to loss of data.

Notice

Indicates a hazardous situation which, if not avoided, may seriously impair operations.

💡

Additional information relating to the current section.

Installing and configuring the 2U variant

Before performing the following procedure, review the safety instructions that came with the system.

Unpacking a rack system

Unpack your system and identify each item.

Assemble the rails and install the system in the rack following the safety instructions and the rack installation instructions provided with your system.

Figure 1 Installing the rails and system in a rack

Connecting the keyboard, mouse, and monitor

Figure 2 Connecting keyboard, mouse, and monitor

Connect the keyboard, mouse, and monitor (optional)

The connectors on the back of your system have icons indicating which cable to plug into each connector. Be sure to tighten the screws (if any) on the monitor's cable connector.

Connecting the power cables

Figure 3 Connecting the power cables

Connect the system's power cable to the system and, if a monitor is used, connect the monitor's power cable to the monitor.

Securing the power cables

Figure 4 Securing the power cables

Bend the system power cables, as shown in the illustration, and attach to the cable strap.

Plug the other end of the power cables into a grounded electrical outlet or a separate power source such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).

Turning on the system

Figure 5 Turning on the system

Press the power button on the system. The power indicator should light.

Installing the bezel

Figure 6 Installing the bezel

Install the bezel.

Connect the device to the network

The Enterprise NVR-AS 4000 G3 2U variant has two 1Gbps Ethernet ports and two 10Gbps Ethernet ports configured as two separate redundant pairs. A choice must be made between these two connection options when installing the NVR-AS 4000 G3.

► *If you wish to configure the unit to use link aggregation, refer to the NVR-AS 4000 User Guide.*

1Gbps Ethernet

Connect the NVR-AS to the Ethernet network using standard CAT5 Ethernet cables.

10Gbps Ethernet

Select whether a Direct Attach twinax or 10GBASE-SR fibre optic connection is to be used to connect to the network switch.

- Direct Attach twinax cables should be connected to an SFP+ port on the network switch and on the back of the NVR-AS 4000.

- Fibre optic connection requires 10GBASE-SR SFP+ fibre optic transceivers to be installed in the NVR-AS 4000 SFP+ port and on the network switch before attaching a short range fibre optic patch cable.

-☼- *10Gbps Ethernet connections are not supplied with the NVR-AS 4000 and must be purchased separately.*

Notice *SFP+ Fibre optic transceiver modules for the Enterprise NVR-AS 4000 G3 must be purchased from IndigoVision to ensure compatibility. The corresponding network switch SFP+ fibre optic module purchase and compatibility is the responsibility of the user.*

Complete the operating system setup

When you power up the Enterprise NVR-AS 4000 G3 for the first time, Windows performs initial configuration. During the initial configuration:

- Specify the location settings
- Read and accept the Windows license agreement
- Define the administrator password.

  The password must meet the following criteria.

  - Be at least six characters in length
  - Contain characters from three of the following four categories:

    English uppercase characters (A through Z)

    English lowercase characters (a through z)

    Base 10 digits (0 through 9)

    Non-alphabetic characters (for example, !, $, #, %)

During this process, Windows may reboot a number of times.

On delivery, the Enterprise NVR- AS 4000 G3 RAID arrays commence a background initialization process. During this operation the RAID array is fully operational but does not have full redundancy until it completes.

After Windows configuration is complete and you login for the first time, the Enterprise NVR-AS 4000 G3 Installation Wizard opens. There are currently two versions of installation wizard supported, with slightly different functionality. The version of the Installation Wizard can be found in the wizard's title bar.

If no version number is present, the wizard can be assumed to be pre-15.3.

Installation wizards before version 15.3

The installation wizard will present a series of pages allowing the following tasks to be performed:

- Read and accept the IndigoVision license agreement.
- Specify a Name and Location for the device.
- Specify the IndigoVision License Server for the device.

Notice *If you do not already have a compatible deployed IndigoVision License Server, a local License Server should be set up via the installation wizard in order to allow the wizard to complete successfully.*

On completing the wizard, it performs device configuration and prepares the video storage. If you don't complete the wizard, you are prompted to do so again the next time Windows starts up.

Warning *Do not interrupt device configuration and storage preparation after it has started.*

When the configuration process has finished, Windows reboots. After the reboot, the Enterprise NVR-AS 4000 is fully operational.

You can now configure the rest of the Enterprise NVR-AS 4000 settings. By default the network interfaces are configured to use DHCP.

Installation wizards from version 15.3 onwards

The installation wizard will present a series of pages allowing the following tasks to be performed:

- Read and accept the IndigoVision license agreement.
- Install a local IndigoVision License Server for the device

On completing the wizard, it launches the NVR Administrator tool in order to complete NVR setup. If you don't complete the wizard, you are prompted to do so again the next time Windows starts up. Once the NVR Administrator tool has completed, the Enterprise NVR-AS 4000 is fully operational.

Notice | *If you do not install a local License Server and do not have an existing compatible deployed IndigoVision License Server available, it is possible to complete initial setup by simply leaving the License Server field in the NVR-AS Administrator tool blank. While this will allow setup to complete, the NVR will not be able to record/playback video until it has been configured to use a compatible License Server.*

► *For more information, see "IndigoVision License Server configuration" on page 11*

You can now configure the rest of the Enterprise NVR-AS 4000 settings. By default the network interfaces are configured to use DHCP.

IndigoVision License Server configuration

To complete the NVR-AS setup and allow it to record, you must configure the Enterprise NVR- AS 4000 G3 2U to use an IndigoVision License Server.

For existing Control Center sites the IP address of the License Server should be entered during first boot configuration.

The Enterprise NVR-AS 4000 G3 Installation Wizard offers the ability to configure this Enterprise NVR-AS 4000 G3 to act as a License Server for a Control Center site. When this option is selected a time-limited trial of Control Center is started. To continue to use Control Center an appropriate license should be purchased.

Notice   *Each IndigoVision site should only have a single License Server. If you configure the Enterprise NVR-AS 4000 G3 2U to act as a License Server, make sure that there are no other License Servers active in your site.*

Notice   *If the Enterprise NVR-AS 4000 G3 2U is configured to act as a License Server, you must manually configure all instances of Control Center and the other NVR-AS devices in your site to use this Enterprise NVR-AS 4000 G3 2U as a License Server.*

⚠ **Caution**   *Configuring the Enterprise NVR-AS 4000 G3 2U device to act as a License Server will start the time limited trial license.*

Technical specification - Enterprise NVR-AS 4000 G3 2U

Power

AC Power Supply (per power supply)	
Wattage	750 W
Heat dissipation Heat dissipation is calculated using the power supply wattage rating.	2891 BTU/hr maximum (750 W power supply)
Voltage This system is also designed to be connected to IT power systems with a phase to phase voltage not exceeding 230 V.	100/240 V AC, autoranging, 50/60 Hz
Battery	
Coin-cell battery	3 V CR2032 Lithium coin cell

Physical

Height	87.3 mm (3.44 inch)	
Width		
	With rack latches	482.4 mm (18.98 inch)
	Without rack latches	444 mm (17.08 inch)
	Depth (excludes bezel)	755.8 mm (29.75 inch)
Weight (maximum)	33.1 kg (72.97 lb)	

Environmental

Temperature

Operating	10 °C to 35 °C (50 °F to 90 °F) with no direct sunlight on the equipment. Maximum temperature gradient of 20°C/h (68°F/h).
Storage	-40 °C to 65 °C (-40 °F to 149 °F) Maximum temperature gradient of 20°C/h (68°F/h).

Relative Humidity

Operating	10% to 80% (noncondensing) at a maximum wet bulb temperature of 29 °C (84.2 °F)
Storage	5% to 95% at a maximum wet bulb temperature of 33 °C (91 °F)

Maximum Vibration

Operating	0.26 Grms at 5-350 Hz (all operation orientations)
Storage	1.88 Grms at 10-500 Hz for 15 min (all six sides tested)

Maximum Shock

Operating	Six consecutively executed shock pulses in the positive and negative x, y and z axes of 6 G for up to 11 ms
Storage	Six consecutively executed shock pulses in the positive and negative x, y, and z axes (one pulse on each side of the system) of 71 G for up to 2 ms

Altitude

Operating	3048 m (10,000 ft)

Operating temperature de-rating:

Up to 35 °C (95 °F):	Maximum temperature is reduced by 1°C/300 m (1°F/547 ft) above 950 m (3,117 ft).
35 °C to 40 °C (95 °F to 104 °F):	Maximum temperature is reduced by 1°C/175 m (1°F/319 ft) above 950 m (3,117 ft).
40 °C to 45 °C	Maximum temperature is reduced by 1°C/125 m (1°F/228 ft)

(104 °F to 113 °F):	above 950 m (3,117 ft).
Storage	12,000 m (39,370 ft)

Airborne Contaminant Level

Class	G1 as defined by ISA-S71.04-1985

Further information

For further information, please refer to the Enterprise NVR-AS 4000 G3 Windows User Guide available at:

https://partners.indigovision.com.