

Avigilon NVR5 PRM FIPS

User Guide

NVR5-PRM-FIPS-96TB-NA NVR5-PRM-FIPS-128TB-NA NVR5-PRM-FIPS-160TB-NA



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Introduction

The Avigilon Network Video Recorder (NVR5 Premium FIPS Series) is preloaded with Avigilon Control Center (ACC) software and is configured for exceptional performance and reliability. The Network Video Recorder offered in higher data storage capacities can be easily integrated into any existing Avigilon surveillance system or act as the base of a new site.

Before You Start

Avigilon recommends the use of an uninterruptible power supply (UPS) system to protect your video surveillance system hardware. A UPS system is used to protect critical equipment from mains supply problems, including spikes, voltage dips, fluctuations and complete power failures using a dedicated battery. It can also be used to power equipment during the time it takes for a standby generator to be started and synchronized.

Any UPS connection must include configuration to shut down the operating system on the appliance when battery power is low or there is 15 minutes of power remaining.

It is recommended that cameras not be connected to the appliance until after the appropriate network configuration has been set up.

Overview

Front View

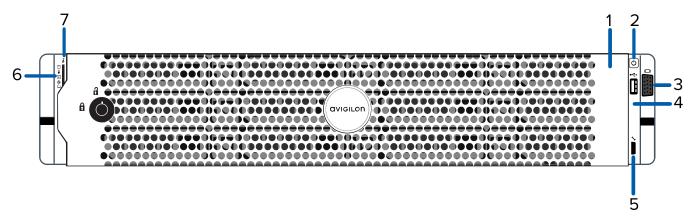


Figure 1: Front view of NVR5 Premium FIPS Series recorder with front bezel installed

Introduction 1

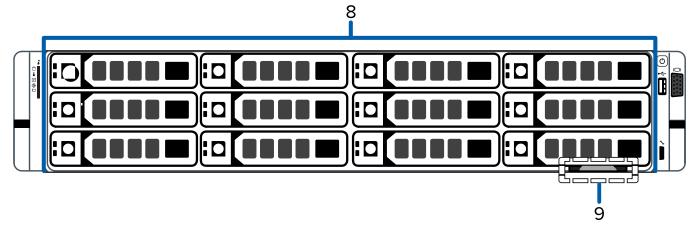


Figure 2: Front view of NVR5 Premium FIPS Series recorder with front bezel removed

1. Bezel

Protects against unauthorized physical access to the hard drives.

For more information, see *Install the Bezel* on page 5.

2. Power button

Controls the power supply to the recorder.

3. Video connector

Accepts a VGA monitor connection.

4. USB 2.0 port

Accepts USB connectors to external devices.

5. iDRAC Direct micro USB port and iDRAC Direct LED indicator

Connects a laptop or desktop computer on the same network as the Integrated Dell™ Remote Access Controller (iDRAC) version 9.

For more information about the iDRAC web interface, see the information tag on your recorder and the Enabling iDRAC Enterprise Features Setup Guide.

Also indicates when the iDRAC port is connected. For more information about the LED indicator, see <u>LED</u> <u>Indicators</u> on page 16.

6. Diagnostic indicators

Provides information about system operations.

For more information about the above LED indicators, see <u>LED Indicators</u> on page 16.

7. System health and i system identification button

Displays the system health. Also identifies a recorder deployed in a rack with other equipment.

For more information, see System Health and Identification Modes on page 20.

8. Twelve (12) Hard drives

Provides access to hot-swappable hard drives. There are LED indicators on each hard drive.

Some drives may contain an empty hard drive tray.

Front View 2

9. Information tag (top and bottom views are not shown)

Slides out to provide the serial number, system information, and iDRAC account credentials for initial login to the iDRAC web interface.

Back View

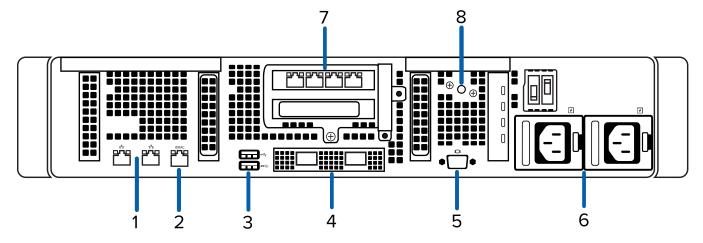


Figure 3: Back view of NVR5 Premium FIPS Series recorder

1. Two (2) 1 Gbps Ethernet ports

Accepts Ethernet connections to multiple networks and includes LED indicators of the connections.

2. Out-of-Band Management (OOBM) port

Accepts an OOBM RJ-45 connection and includes an LED indicator of the connection.

3. Keyboard port and mouse port

Accepts connectors to a keyboard and mouse.

4. Two (2) 10Gbps SFP+ Ethernet ports

Accepts Ethernet connections to multiple networks and includes LED indicators of the connections.

5. Video connector

Accepts connections to serial devices.

6. Two (2) Power supply connectors

Accepts a power supply connection.

7. Four (4) 1 Gbps Ethernet ports

Accepts Ethernet connections to multiple networks and includes LED indicators of the connections.

8. System identification button

Identifies a recorder deployed in a rack with other equipment. Also resets the iDRAC web interface without rebooting the operating system.

For more information about the iDRAC reset, see the Enabling iDRAC Enterprise Features Setup Guide.

For more information about the above LED indicators, see *LED Indicators* on page 16.

Back View 3

Package Contents

Ensure the package contains the following:

- Avigilon NVR5 Premium Recorder
- Rack sliding rail assembly kit
- Cable management arm assembly kit
- Bezel and key
- Blank USB key for OS recovery image
- Power cables
 - $^{\circ}$ 2 x C13 / C14
 - ° 2 x region specific

NA: NEMA 5-15P / C13 UK: BS 1363 / C13 EU: SCHUKO / C13 AU: AS3112 / C13

Package Contents 4

Installation

Connect Cables

Refer to the diagrams in the Overview section for the location of the different connectors. Make the following connections as required:

- 1. Connect a KVM switch or separate keyboard, mouse and monitor to the recorder.
 - The keyboard and mouse can be connected to any USB port on the recorder.
 - The monitor can be connected to any video connector at the front or back of the recorder.
- 2. Connect the recorder to your network by plugging an Ethernet cable into one of the Ethernet ports.
- 3. For out-of-band management access and functionality, connect Ethernet cable to the OOBM connector.
- 4. Connect a power cable to each power supply at the back of the recorder.
- 5. Press the power button on the front of the recorder. Check that the recorder LED indicators display the correct status. For more information on the different LED status indicators, see *LED Indicators* on page 16.

Install the Sliding Rack Rails and Cable Management Arm

If the recorder will be mounted in a server rack, install the Sliding Rack Rails and the Cable Management Arm (CMA) provided in the recorder package. Follow the procedures outlined in the *Rack Installation Instructions* and the *CMA Installation Instructions* provided in the assembly kits.



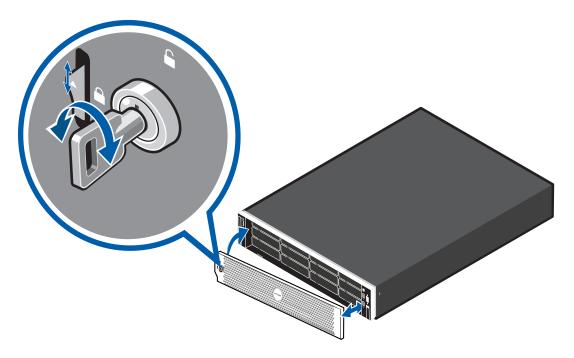
NOTE

When rack-mounting the recorder, ensure no interference occurs from the sliding arms of adjacent equipment in the rack. Every sliding rack rail on the server rack must be aligned before you insert the recorder into the rail for a smooth installation. For more information, refer to the dimensions in your server rack design documentation.

Install the Bezel

The bezel can be installed on the front of the recorder to help protect the hard drives against unauthorized access.

Installation 5



- 1. Align and insert the right end of the bezel until it clicks into place.
- 2. Push the left end of the bezel into the front of the unit until it clicks into place.

Install the Bezel

Logging into Windows Server for the First Time

After the recorder powers up, you will need to configure the Windows operating system for the first time:

1. On the first screen, scroll through the list and select your preferred language.

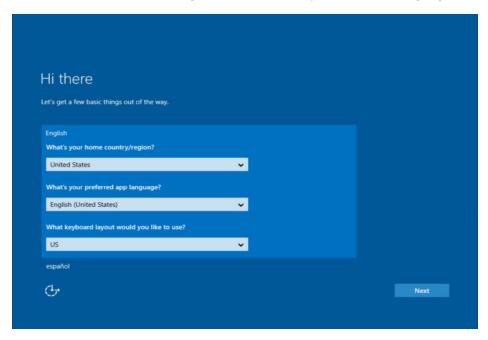


Figure 4: The language selection screen during initial Windows software set up. (Used with permission from Microsoft.)

- Select the country/region, preferred app language and keyboard layout, and then click Next.
 NOTE: If a language other than English is selected, the server will restart. This is normal Windows behavior.
 Proceed with step 3 once the server has finished restarting.
- 3. The End User License agreements are displayed. Review the terms then click Accept.
- 4. On the Customize settings screen, set a password for the local administrator account. The password must meet the following complexity and policy requirements:
 - Have a minimum length of 14 characters.
 - Have at least one of each of the following: lowercase character, uppercase character, symbol, and number.
 - You cannot reuse your last 24 passwords.
 - The password will expire in 60 days.
 - The password must be a minimum age of 1 day before it can be changed.
- 5. Press Ctrl+Alt+Delete to unlock and log in:
 - User name: Administrator
 - Password: created in the previous step.
- 6. Once logged in, the recorder will go through initial system setup, and then start BitLocker encryption, some configuration and applying of hardening policies.
- 7. The Setup dialog will start configuring the system storage. This process may take up to 5-20 minutes depending upon the size of the storage volume.

- 8. The AvigilonControl Center Software will start running automatically and the NVR Analytics Kit will be configured.
- 9. Once the setup procedure is complete, the system will restart.



IMPORTANT

After this reboot, as part of the applied hardening policies, your *Administrator* account user name will have been automatically changed to *MotoSec*.

10. Log in with the *MotoSec* user name and the password you created previously. The user name is not case sensitive.

Once logged in, proceed to deploying the recorder using an active directory or standalone. For more information, see the <u>ACC Initial System Setup and Workflow Guide</u>.

To continue protecting your system, you will need to create a backup BitLocker recovery key, create a USB recovery stick, and disable USB ports. For more information on these security procedures, see the <u>Avigilon System Hardening Guide</u>.

Connecting to ACC Software

Once you have deployed your Network Video Recorder, you should activate your ACC software.

Activating and Configuring ACC Software

- Initial ACC™ System Setup and Workflow Guide
- ACC 7 Help Center

Printable versions of these guides are available on the Avigilon website: avigilon.com/support/software/.

Connecting to ACC Software

Troubleshooting

Network Configuration

By default, the Remote Monitoring Workstation acquires an IP address on the network through DHCP. If you need to set up the workstation to use a static IP address or any specific network configuration, see the *Windows Help and Support* files for more information.

By default, the NVR5 Workstation acquires an IP address on the network through DHCP. If you need to set up the workstation to use a static IP address or any specific network configuration, see the *Windows Help and Support* files for more information.

By default, the NVR5 Premium acquires an IP address on the network through DHCP. If you need to set up the workstation to use a static IP address or any specific network configuration, see the *Windows Help and Support* files for more information.

Checking System Health

You can check on the health of the system components in the Site Health in the ACC Client software. See <u>Site Health</u> in the ACC Client User Guide for more information.

Operating System Recovery by External USB

If you need to recover the Windows operating system on the Network Video Recorder you will need to have created a USB Recovery Image during recorder setup. For more information, see Hardening the Avigilon NVR5 Premium - FIPS Series.

The general steps are:

1. Plug the USB recovery device into the recorder.



NOTE

USB ports must be enabled to complete the OS recovery. See <u>Hardening the Avigilon NVR5</u> Premium - FIPS Series for more information on enabling USB ports.

- 2. Reboot the NVR.
- 3. Press the **F11** key while the server is booting up to open the Boot Manager.
- 4. Select One-shot UEFI Boot Menu from the Boot Manager Main Menu.
- 5. On the UEFI Boot menu, select to boot from the USB recovery device.
- 6. Click **Recover** on the Recovery window.
- 7. Wait for the recovery process to complete. This may take 20-30 minutes. Once the recovery process is complete, it will ask you to remove the USB and reboot the NVR.
- 8. Go through the initial setup process. For more information, see <u>Logging into Windows Server for the First Time on page 7</u>.

Troubleshooting 9

Unlocking the Storage Volume

After the OS recovery is complete, you will need to unlock the storage volume that has been encrypted with BitLocker.

1. Plug the USB recovery device into the recorder.



IMPORTANT

The BitLocker recovery key files (BEK files) should have been backed up to your USB device as part of completing the NVR setup. For more information, see Hardening the Avigilon NVR5 Premium - FIPS Series.

- 2. Open Windows Explorer and locate the storage volume with the locked icon.
- 3. Click the storage volume. Windows will ask you for a Recovery Key. Click to **Load Key From USB Drive**. The storage volume should now be unlocked.
- 4. Click on the **Windows Start** button and type *Manage BitLocker*. Open the Manage BitLocker application.
- 5. Click on Storage and select Turn on auto-unlock.

Re-installing the ACC Software

Download and install your version of the ACC software on the NVR. After installing, the system will start configuring system storage and hardening of the recorder.

Replacing the Motherboard

Your recorder uses a Trusted Platform Module (TPM) to secure your hardware with integrated cryptographic keys. To maintain security, the TPM cannot be reused with a new motherboard if the motherboard needs to be replaced. If the motherboard needs to be replaced, this will require a new TPM.

You will be required to enter your BitLocker recovery key when booting to the Operating system after replacing the motherboard. As part of the initial setup, administrators should backup their BitLocker recovery key. This key can then be used to restore BitLocker on a new TPM if the motherboard is replaced.



IMPORTANT

Make sure you have the BitLocker recovery key prior to replacing the motherboard. It is also advised that you decrypt the hard drive prior to replacing the motherboard.

- After replacing the motherboard and signing in with the BitLocker recovery key, navigate to Control Panel >
 System and Security > BitLocker Drive Encryption.
- 2. Choose to Suspend protection from the Manage BitLocker window. A message should appear stating that BitLocker protection has been suspended.
- 3. Reboot the system and go into the BIOS to enable and activate the TPM.
- 4. Click Apply and Exit.
- 5. Boot back into Windows and ensure that BitLocker is turned back on in the BitLocker manager console.

Maintenance

Checking System Health

You can check your system health through the ACC Client Site Health or with the Server Administrator software.

ACC Client Site Health

You can check on the health of the system components in the Site Health in the ACC Client software. See <u>Site Health</u> in the ACC Client User Guide for more information.

Server Administrator Software System Health

The Server Administrator software is pre-installed on the recorder. The software provides information about the recorder's system operation status, and gives you remote access to the recorder for recovery operations.



IMPORTANT

To comply with hardening policies, the FIPS Series NVR will not allow the Server Administrator software to open with its default self-signed certificate. To use the Server Administrator software, you have two options:

- To fix the self-signed certificate: generate a certificate signing request, get it signed by a
 trusted certificate authority, and upload the CA-signed certificate to the Server Administrator.
 For more information, see the <u>Server Administrator Software Certificate Management section</u>
 of the <u>System Hardening Guide</u>.
- To workaround the self-signed certificate: use the Windows Registry Editor to edit the key to temporarily allow self-signed certificates. Using this method will leave your system exposed until you change the registry key back to its previous state. For more information, see the Server Administrator Software Registry Key section of the System Hardening Guide.

If one of the LED indicators on the recorder is flashing an error warning, the Server Administrator will display details about the problem. For more information about the LED indicators, see <u>LED Indicators</u> on page 16.

- 1. Open the Server Administrator.
 - To open the Server Administrator locally, double-click the Server Administrator shortcut icon on the desktop.
 - To open the Server Administrator remotely, open a web browser and enter this address: https://<recorder IP Address>:1311/.

```
For example: https://192.168.1.32:1311/or\ https://localhost:1311/.
```

If you are using an intranet connection, your browser may display an error message. Allow the browser to ignore the certificate warnings.

2. If asked to log in, enter the Windows software administrator username and password that was configured for the recorder.

Maintenance 11

- 3. On the Server Administrator home page, the health of the system components are displayed in the workspace on the right.
 - To see the health of other system components, expand and select a different component from the System Tree on the left.
 - The table displayed in the workspace lists system components and their status:
 - The system component is running normally.
 - The system component has a non-critical warning.
 - The system component has a critical failure.
 - The system component status is unknown.
 - To see the details of a system component, select the system component from the workspace.

The Server Administrator is also used to customize the Redundant Array of Independent Disks (RAID) settings, assign a hot spare and remotely monitor the system health. For more information about the features in the Server Administrator, see the Help system provided in the software.

Replacing Hard Drives



NOTE

Before powering down the recorder for any upgrade, recovery or maintenance, back up critical recorder data and programs. For more information, see the $Windows^{\text{TM}}$ Upgrade and Recovery Guide for Avigilon Systems (link).

The operating system and the Avigilon Control Center software are mirrored on two hard drives at the back of the recorder. If one of the hard drives fail, you can replace the failed drive while the recorder continues to run from the other.

If your recorder is still under warranty, contact Avigilon Technical Support to replace the failed hard drive.

If more than two hard drives fail at the same time, contact Avigilon Technical Support immediately for recovery instructions.

Only replace a hard drive if the hard drive LED indicator and the Server Administrator displays an error.

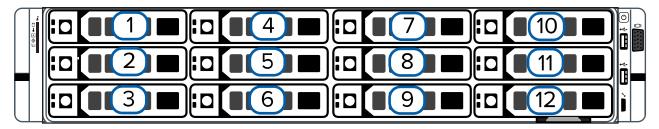
- 1. Open the Server Administrator.
- 2. Check which hard drive has failed, then disconnect the drive through the Server Administrator software.
 - Hard drives are installed at the front and back of the recorder. Be sure you can identify which hard drive needs to be replaced.
- 3. Remove the bezel.
- 4. Depending on where the hard drive is located, perform one of the following procedures:

Guidelines

When replacing hard drives, observe the following general guidelines:

Replacing Hard Drives 12

• If only one drive is used, install the drive in the drive bay with the lowest device number. For example:





WARNING

Opening or removing the system cover while the system is powered on may expose you to a risk of electric shock.



CAUTION

Do not operate the system without the cover for a duration exceeding five minutes. Operating the system without the system cover can result in component damage.



CAUTION

To ensure proper operation and cooling, all bays in the system and system fans must be always populated with a component or a blank.

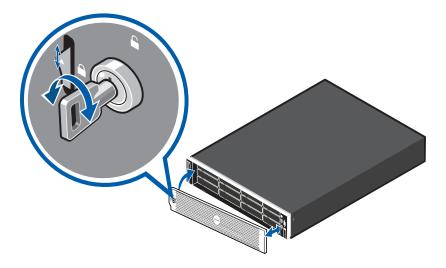
Replacing a Hard Drive Blank

The hard drives on the Network Video Recorder are set up in a RAID configuration. This allows information to be recorded across several hard drives.

If one hard drive fails, there is enough information on the other hard drives for the recorder to continue recording video.

Depending on the recorder model, there may be hard drive blanks at the front of the recorder. You can replace the blanks with hard drives as required.

1. Remove the bezel.



- a. Unlock the bezel.
- b. Push the release button next to the lock.
- c. Pull the left end of the bezel then unhook the right end to remove the bezel.
- 2. Press the release button and slide the blank out of the hard drive slot.



- 3. Insert the hard drive all the way into the recorder then push the handle against the hard drive to lock it into place.
- 4. Open the Server Administrator application and expand the System Tree.

The new hard drive should be automatically added to the Physical Disks list. The list is typically available here: System > Storage > PERC H740P Mini (Embedded) > Connector 0 (RAID) > Enclosure (Backplane) > Physical Disks.

5. Assign a task to the new hard drive or allow it to exist as an extra storage drive.

It is recommended to use the new hard drive as a hot spare. Hot spares are hard drives that are available on standby in the event of a hard drive failure in the RAID. If that occurs, you can configure the system to automatically redirect recording to the unused hard drive.

To assign the new hard drive as a hot spare:

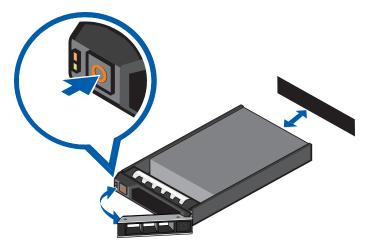
- a. In the Task list, select Assign and Unassign Global Hot Spare.
- b. Click Execute.

If the new hard drive is not displayed in the Server Administrator, try one of the following:

- · Refresh the browser.
- · Reboot the recorder.

Replacing Front or Back Hard Drives

1. Locate the failed hard drive at the front or back of the recorder, depending on the model.



- 2. Press the release button on the front left of the hard drive.
- 3. When the handle is released, pull the hard drive out of the recorder.
- 4. Remove the four screws from the side of the hard drive carrier.
- 5. Lift the failed hard drive out of the carrier.
- 6. Insert the replacement hard drive into the carrier and screw it into place. The hard drive connectors should face the back.
- 7. When the hard drive is secured in the carrier, insert the hard drive back into the recorder.
- 8. Once the hard drive is inserted all the way in, push the handle against the hard drive to lock it into place.

The recorder immediately starts rebuilding the hard drive. The progress of the rebuilding is displayed in the Physical Disks panel or Server Administrator. This may take several hours.

LED Indicators

The following tables describe what the LEDs on the Network Video Recorder indicate.

Diagnostic Indicators

The diagnostic indicators on the front panel highlight system issues during system startup.



NOTE

The diagnostic indicators only light-up when the recorder is powered.

LED Indicator	Description	
<u>i</u>	Steady blue — The system is powered on and healthy. System health mode is active.	
П	 Blinking blue — System identification mode is active. 	
	Steady amber — The system is in fail-safe mode.	
System health and System ID	NOTE If the system health indicates a degraded or critical state, contact Avigilon Technical Support for assistance.	
	Blinking amber — The system is experiencing a fault. Check the System Event Log.	
	For more information, see <u>System Health and Identification Modes on page 20</u> .	
9	Steady amber — The hard drive is experiencing an error. Check the System Event Log.	
Hard drive		
1	Steady amber — A thermal error has occurred.	
	Possible errors include:	
Temperature	 Temperature out of range 	
	Fan failure	
	Check that the fans are functioning correctly and the air vents are not blocked.	
4	Steady amber — An electrical error has occurred.	
 Electrical	Possible errors include:	
Lictlical	 Voltage out of range 	
	Voltage out of rangeFailed power supply	
	Voltage regulator	
	Check the power status indicator to confirm if it is an issue with the power supply, and	
	reseat the power supply unit, if the error persists.	

LED Indicators 16

LED Indicator	Description
&	Steady amber — A memory error has occurred.
Memory	Check the System Event Log and reset the memory module, if the error persists.
	Steady amber — A PCIe card error has occurred.
PCIe	Restart the system, upgrade the device firmware and reinstall the card, if the error persists.

iDRAC Direct LED Indicators

The iDRAC Direct LED indicates if the iDRAC port is connected to a laptop or desktop computer.



Figure 5: (1) The iDRAC Direct LED indicator

LED Indicator	Description
Off	The device is unplugged from the port.
Green for 2 seconds	The device is connected to the port.
Flashing green — on for 2 seconds and off for 2 seconds	The device is recognized by the port.

Power Status Indicators

The power button on the front lights up when power is on.

Additional information about the power supply is provided by the power status indicator on the power supplies at the back. The following table describes what the LEDs indicate:



Figure 6: (1) The power status indicator for 96TB, 128TB and 160TB recorders

LED Indicator	Description
Off	Power is not connected.
Green	Power is supplied.

iDRAC Direct LED Indicators

LED Indicator	Description
Blinking amber	There is a problem with the power supply.
Blinking green	A firmware update is being applied to the power supply unit.
	CAUTION To prevent malfunction of the power supply unit, do not disconnect the power cord or unplug the power supply unit when updating firmware.
Blinking green and turns off	The redundant power supply is mismatched. This only occurs if you have a secondary redundant power supply installed.
	CAUTION To prevent power supply mismatches, do any of the following:
	 Avoid mixing power supply units from previous generations of servers even if the units have the same power rating.
	 Replace only the power supply unit with the blinking indicator.
	 Identical power supply units must receive the same input voltages, be of the same type and support the same maximum power output.
	 Combining AC and DC power supply units is not supported.

Network Link Status Indicators

When the recorder is connected to the network, the recorder's connection status LEDs above the Ethernet port display the recorder's connection status to the network. The following table describes what the LEDs indicate:

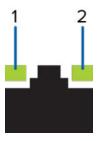


Figure 7: (1) Link LED. (2) Connection activity LED.

Network Link Status Indicators 18

LED Indicator	Description
Off	The recorder is not connected to a network.
Link LED — green	The recorder is connected to a network at the maximum
Connection Activity LED — blinking green	port speed.
Link LED — amber	The recorder is connected to a network at less than the
Connection Activity LED — blinking green	maximum port speed.
Link LED — green	The recorder is connected to a network at the maximum
Connection Activity LED — off	port speed and data is not being sent or received.
Link LED — amber	The recorder is connected to a network at less than the
Connection Activity LED — off	maximum port speed and data is not being sent or received.

Hard Drive RAID Status Indicators

Each hard drive has its own set of LED indicators to show its activity and status.

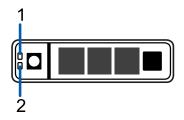


Figure 8: (1) Status LED. (2) Activity LED for 96TB, 128TB and 160TB recorders

The Activity LED flashes green when the hard drives are working. The following table describes what the Activity LEDs indicate:

LED Indicator	Description	
Green	The hard drive is online.	
Off	The hard drive is ready for removal from the recorder.	
	NOTE The indicator remains off until all drives are initialized after the system is turned on. Drives are not ready for removal during this time.	
Two short green flashes every second	The system is identifying a new hard drive, or preparing a hard drive for removal.	
Flashes green, amber, then off	The hard drive is predicted to fail.	
Four short orange flashes per second	The hard drive has failed.	

The hard drive is rebuilding.

The hard drive rebuild has been aborted.

Blinks green for three seconds, orange for

Flashes green slowly

three seconds, and off for six seconds

System Health and Identification Modes

In the front left panel of the recorder, you can switch between system health and system identification modes:

• Press the button to enable the system identification mode, which is used to identify a recorder deployed in a rack with other equipment.

The blue indicator starts blinking.

• Press the button again to switch back to system health mode.

The blue indicator stops blinking.

For more information about the LED indicators, see *LED Indicators* on page 16.

Resetting the iDRAC System

To reboot the iDRAC web interface without rebooting the operating system:

- 1. Go to the front left panel of the recorder.
- 2. Press and hold the system health and system identification button for 16 seconds until the cooling fans start spinning at full speed.

The iDRAC system restarts without changing any saved settings. It may take a minute or longer until the remote controller restarts.

For information about using the iDRAC web interface to perform the reset, see the <u>Enabling iDRAC Enterprise</u> <u>Features Setup Guide</u>.

Limited Warranty

Avigilon warranty terms for this product are provided at avigilon.com/warranty.

For More Information

For additional product documentation and software and firmware upgrades, visit <u>support.avigilon.com</u>.

Technical Support

Contact Avigilon Technical Support at support.avigilon.com/s/contactsupport.

Product User Guides

- Windows Upgrade and Recovery Guide for Avigilon
- Enabling iDRAC Enterprise Features Setup Guide

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