



LUM-500-NVR Series  
NVR Surveillance Recorder

# **Web Interface Quick Start Guide**



## Read this page *before* you go to the job site!

For maximum control and convenience, **your system should be connected to the Internet** via a local network router. For installation, you must be able to access this network through a personal computer.

[Internet connectivity allows you to use OvrC, a powerful remote maintenance service. See OvrC.com for details.](#)

**If your surveillance system is isolated from the Internet**, go to SnapAV.com and download the technical reference manual for this product, which has a chapter that steps you through installation without using the web interface.

### Required Equipment

- The NVR and all cameras to be installed
- Network connection for the NVR
- Admin rights to a network computer that can access the surveillance system
- Phillips screwdriver
- Two AAA batteries for the remote control

### Additional Resources

You can acquire a PDF of the full NVR technical reference manual, hard drive installation guide, and other materials from the product page at SnapAV.com.

[If you are going to install extra hard drives in the recorder, do so \*now\* before beginning installation.](#)

## Safety Tips

- Handle this device with care.
- Do not strike or shake this device.
- Do not operate this device beyond its specified power source ratings.
- Protect the power cord from being stepped on or pinched, particularly where it connects to the device and to the power outlet.
- Do not drop items through the ventilation slots. If something falls inside the device, turn off the power immediately and contact qualified personnel for service.
- Do not expose this device to water or moisture. Moisture may damage the device and cause electric shock.
- Take immediate action if the device becomes wet: turn the power off and contact qualified personnel for service.
- Do not use this device in humidity above 85%.
- Do not use this device near any heat sources such as radiators, heat registers, stoves, or other such heat-generating equipment.
- If mounting in a closed space, include adequate ventilation. Do not block ventilation openings.
- The performance and lifespan of the hard drive is affected by temperature. Use this device in temperatures ranging from 14–131 °F.
- Handle the hard drive with care.
- You can damage the hard drive if this device is moved while the hard drive is still spinning. If you must move the device, even just to reposition it, follow the shutdown procedure in the technical reference manual (available online) and wait at least 30 seconds before moving it.
- If servicing or exchanging the hard drive, protect it from static electricity. Use a grounded static wrist guard and mat to properly ground yourself and the hard drive.
- Do not use an electric screwdriver to remove or install a hard drive.
- Clean this device with a dry cloth. Do not use strong or abrasive detergents when cleaning the device chassis. If dirt is hard to remove, use a mild detergent and wipe gently.
- Make a note of the system settings and save them. This helps when changing the system configuration or with recovery if unexpected failure or trouble occurs.

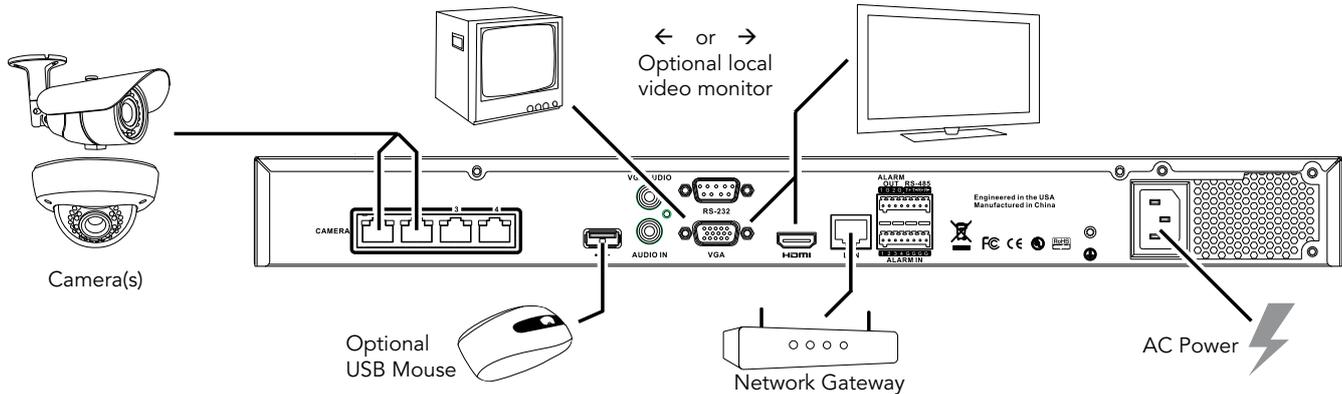
## Box Contents

The following materials are included in your package:

- This quick-start guide
- The Luma NVR
- Extra screws for mounting an additional internal hard drive into your NVR
- SATA cables for connecting an additional internal hard drive in your NVR
- Rack ears for installing your NVR into a rack
- Screws for attaching the rack ears to the NVR
- USB mouse
- Remote control
- Power cord
- Stick-on rubber feet for the unit if you will not be installing it in a rack

Please note that distributing, copying, disassembling, reverse compiling, reverse engineering, or exporting the software provided for this product is expressly prohibited and in violation of international copyright law.

## Set Up the Hardware



**Caution:** Do not power up the NVR until these steps are complete.

1. If desired, install the NVR in the rack. If not, attach the rubber feet to the bottom corners of the unit.
2. Connect the mouse to the USB port on the rear panel. [We suggest that you leave the front USB unused and accessible for later use.](#)
3. If desired, connect a local monitor to the **VGA**, **HDMI**, or **video out** port.
4. Connect your IP surveillance cameras to the **camera** ports. To connect your cameras through your local network, consult the technical reference manual (available online) for additional setup.
5. Connect your network cable to the **Ethernet** port.
6. Connect the power cord and turn on the power switch.

## Install the Luma Utility

Use the Luma Utility to locate your surveillance hardware and set up communications.

### Download and Install the Luma Utility



Visit your product page at [SnapAV.com](http://SnapAV.com) and download the Luma Utility installer.

Once it has downloaded, double-click on the *Luma Utility* icon to run the installer. You can click through and accept the defaults.

### Locate the NVR



Run the Luma Utility.

It searches the local network for all Luma Surveillance devices. If your NVR does not appear, ensure that the network connections are secure and that the unit is powered up, then click the  button.

Click on the entry for your NVR to view its details. Double-clicking on the NVR opens its web interface.

## Edit the Network Settings

Modify Network Parameters

IP Address:	<input type="text" value="192.168.1.50"/>
Server Port:	<input type="text" value="8000"/>
HTTP Port:	<input type="text" value="0"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
IPv4 Gateway:	<input type="text" value="192.168.1.1"/>
IPv6 Address:	<input type="text" value="fe80::c256:e3ff:fe12:3124"/>
IPv6 Gateway:	<input type="text"/>
IPv6 Prefix Length:	<input type="text" value="64"/>
Device Name:	<input type="text" value="Alpha NVR"/>
Device Serial No.:	<input type="text" value="WPS-500-NVR-4CH0820"/>
<input type="checkbox"/> Enable DHCP	
<input type="text" value="Password"/>	<input type="button" value="Save"/>
 Note: Enter the admin password of the device before you save the network parameters.	
Password Recovery	
<input type="text" value="Security Code"/>	<input type="button" value="OK"/>
 Note: The security code will be returned after you send the date and serial No. of the device to the manufacturer.	

If you need to change the network settings at a later date, consult the manual.

### Set the IP Address

At the top of the right column of the Luma Utility, make a note of the IP address. You will need this in the next step.

Deselect the **Enable DHCP** box to make the IP address static.

### Change the Server and HTTP Ports

The HTTP port defaults to 80. This port enables you to access your recorder through a web browser.

The server port defaults to 8000. This port enables the Luma mobile application to access your system.

For security reasons, we suggest you change your ports and make a note of the new port numbers for your records. Consult your server or router manual for common and reserved port numbers to avoid.

To confirm changes, enter the password *admin* and then click **Save**.

## Start the Web Interface

### Get the Luma Plug-In

Open your browser, type the IP address of the recorder (from page 7) into the address bar, and hit **Return**.

Below the login window, there may be a link that reads, “Please click here to download and install the plug-in. Close the browser when installing the plug-in.” If so, download the plug-in and close all instances of your browser, including any running in the background.



Install the *LumaWebComponents* plug-in.

Restart your browser and return to your recorder’s login window.

Enter *admin* for both the user name and password.

You might get a pop-up message\* that asks you whether you want to run the Luma Web Components plug-in. You must allow the plug-in to access your system.



\* Google Chrome does not have a pop-up message. Instead, look in the right end of the address bar for an icon of a puzzle piece with an X over it, as shown in the image to the right. Click on this to enable the plug-in.



Be sure to save your recorder’s page as a favorite in your browser.

## Check the Cameras

After log-in, your screen shows the live page, which should look similar to the illustration at right.

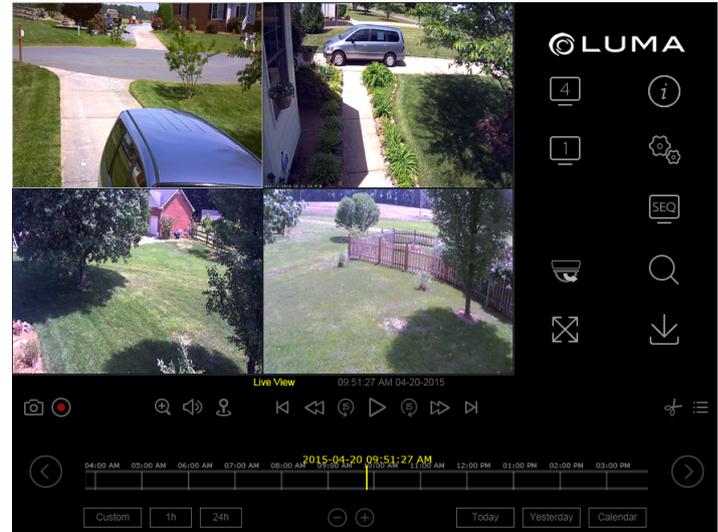
If a camera is out, check its connection to your NVR, and ensure that it is powered up.

### Edit Camera Settings (Optional)

To adjust camera settings, click on the settings icon (⚙️). In the configuration screen, click on **Camera Management** (at the very bottom of the left column).

This displays a table of all IP cameras configured for the NVR. In the rightmost column is a link to each such IP camera. This link opens a new tab in your browser for your camera's local interface menu (see your camera manual for details). It can only be used from within the network.

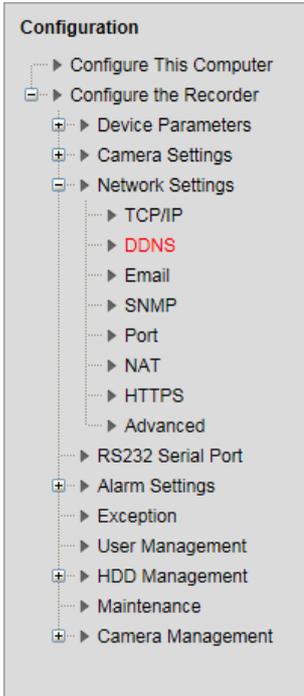
us	Protocol	Connect
ne	Wirepath	<a href="http://192.168.0.11:80">http://192.168.0.11:80</a>
ne	Wirepath	<a href="http://192.168.0.13:80">http://192.168.0.13:80</a>
ne	Wirepath	<a href="http://192.168.0.14:80">http://192.168.0.14:80</a>
ne	Wirepath	<a href="http://192.168.0.15:80">http://192.168.0.15:80</a>
ne	Wirepath	<a href="http://192.168.0.16:80">http://192.168.0.16:80</a>
ne	Wirepath	<a href="http://192.168.0.21:80">http://192.168.0.21:80</a>
ne	Wirepath	<a href="http://192.168.0.23:80">http://192.168.0.23:80</a>
ne	Wirepath	<a href="http://192.168.0.41:80">http://192.168.0.41:80</a>



### Reinstalling Network Cameras

If you are taking cameras that were previously attached to a network and plugging them directly into your NVR, you must do a hardware reset on the cameras. See your camera's manual or the technical reference manual for details.

## Set Up Dynamic DNS



This allows you to connect to your surveillance system from anywhere, via the Internet, using a web address that's easy to remember.

Click on **Remote Configuration** > **Network Settings** > **DDNS**.

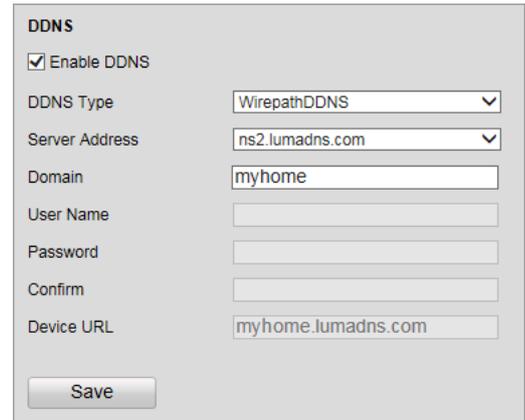
Click the box labeled **Enable DDNS**, then choose a type from the **DDNS Type** menu. Next, choose a server address. [We recommend WirepathDDNS and ns2.lumadns.com.](#)

Enter your desired domain in the **Domain** box. This creates a personalized server address, which is shown under **Device URL**.

If someone has already registered your desired domain, the system adds a unique ID (typically two to four digits) to your domain. If you do not like these digits, try another domain or server address.

*Example: If you choose the domain myhome (as shown), your system's URL would be myhome.LumaDNS.com. If someone already had myhome, then your system's URL would be something like myhome13.LumaDNS.com.*

Click **Save** to finalize the settings here.



The image shows the DDNS configuration form with the following fields:
 

- DDNS** (Section Header)
- Enable DDNS
- DDNS Type: WirepathDDNS (dropdown menu)
- Server Address: ns2.lumadns.com (dropdown menu)
- Domain: myhome (text input)
- User Name: (empty text input)
- Password: (empty text input)
- Confirm: (empty text input)
- Device URL: myhome.lumadns.com (text input)
- Save (button)

## Set Up Port Forwarding

Port forwarding is typically found under the Applications & Gaming section of your router.

To complete port forwarding, you will need:

- the IP address of the NVR (found under Remote Configuration > Network Settings > TCP/IP, in the box labeled IPv4 Address), and
- the server and HTTP port, which you set on page 7.

Refer to your router's user manual for full details.

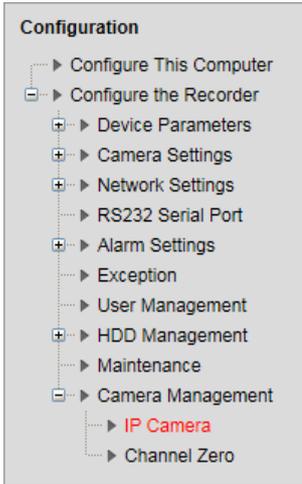
Once you've finished these steps, pointing your browser to your device's URL (e.g., MyHome.LumaDNS.com) gets you to the login page of your NVR, no matter where you are. If you changed your HTTP port from the default location (80), add a colon and the new port number to the URL (e.g., MyHome.LumaDNS:8042).

### Port Forwarding for Attached Cameras

If your cameras are attached directly to your NVR, you'll also need to set up port forwarding for them.

The cameras are accessed with the IP address of the NVR, modified by port numbers 65001 (for camera 1) through 65016 (for camera 16). Forward these ports on your router. This can also be referenced through the camera management links shown on page 9.

## Change Camera Passwords



Next you must change the passwords of the cameras attached directly to your NVR.

Default passwords make plug-and-play installation possible, but represent a security risk after installation. We strongly recommend that you change the password.

Through the local interface:

Click on **Camera Management > IP Camera**.

At the top of the window, click on the **POE Password**  button.

This opens up a dialog box that lets you change the admin password for all of your cameras simultaneously (it has no effect on other accounts' passwords).

Camera passwords cannot be longer than 31 characters. The camera password can only contain numbers and letters; no spaces or special characters.

For added security, use a password that is long and easy to remember.

## Create Users and Set Passwords

Click on **Remote Configuration** > **User Management**.

### Change the Admin Password

Click on the admin account, then click **Modify**.

Passwords cannot be longer than 16 characters. To ensure compatibility with the local interface, passwords can only contain numbers, letters, spaces, and the following special characters: . , : - /

Use a password that is long and easy to remember. A password like *parisinthspring* is more secure and easier to remember than a password like *P4S\$w\*rD*.

### Add Additional Users

Click the **Add** button. Enter the new account's user name and password. Account names can be up to 32 characters long, and can contain numbers and letters only.

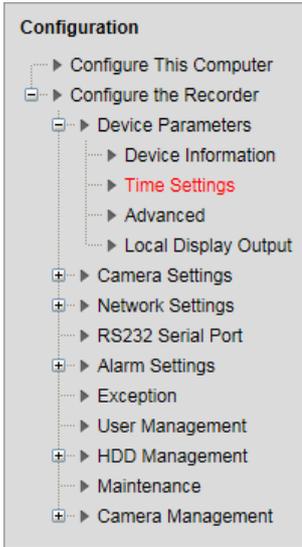
We recommend that you add accounts by individual users' names, so that if someone reboots the system or erases a log, you know which user did it.

Choose the account's level. There are two levels for users: operator and user. The only difference is the default permissions they are given. You can customize permissions for each account individually. See the technical reference manual (available online) for more details.



## Calibrate the System Time

Click on **Remote Configuration > Device Parameters > Time Settings**.



### Synchronize the Time

Choose your time zone. North American time zones range from GMT-10:00 (Hawaii) to GMT-03:30 (Newfoundland).

By default, the system uses network time protocol (NTP) to synchronize your system to Coordinated Universal Time. [We strongly recommend using NTP to keep your system well calibrated.](#)

If you want to use manual time sync, or if your system is isolated from the Internet, see the technical reference manual (available online).

### Disable DST if Necessary

If you are in a location that does not observe daylight saving time, click the **Enable DST** checkbox to deselect it.

Click **Save** to confirm changes.

## You're Done!

Your system is now operational.

### Next Steps

Next, you'll want to customize your system for your customer's needs. Using the simple web interface, you can:

- Set protocols for remote computers for when they log in to the surveillance system.
- Change the cameras' frame rates to manage hard disk space.
- Set a custom recording schedule.
- Arrange for the system to send alert emails when an alarm is triggered.
- Create privacy masks.
- Set up alarms to trigger from the camera, and vice versa.

... and more!

To learn more about these capabilities, go to the product page at [SnapAV.com](http://SnapAV.com) and download the technical reference manual.

## Support

### Need Help? Contact Tech Support!

If you need further clarification, please email [support@SnapAV.com](mailto:support@SnapAV.com). For more information, instructional videos, support documentation, or ideas, visit our website and view your item's product page at [SnapAV.com](http://SnapAV.com).

### 3-Year Limited Warranty

This Luma Surveillance™ product has a 3-Year Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products that have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to SnapAV or a designated service center with prior notification and an assigned return authorization (RA) number.

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