Test your cameras prior to selecting a permanent mounting location by temporarily connecting the cameras and cables to your NVR using one of the following 2 methods:

a. Connect cameras directly to the recorder (recommended).

b. Connect cameras to a PoE switch or router on your network (not included).

NOTES:
• It may take up to 1 minute for cameras to start up and transmit video to your recorder.
• This guide covers connecting IP cameras to your security recorder only. For full instructions on installing your cameras, please refer to your camera’s documentation at lorex.com.
• Connecting cameras to a router, or a network switch without PoE, requires a power adapter for each camera. Refer to your camera’s documentation at lorex.com for the correct power adapter model number.

Connect the recorder to your router using the included Ethernet cable.

NOTES:
• If you are using a PoE switch, ensure the switch is connected to the same network as your recorder.
• To receive automatic firmware updates and enable remote viewing with mobile apps, a high speed Internet connection is required (minimum upload speed of 5Mbps required for 4K viewing; 3.5Mbps for lower resolutions). All other system features can be used without an Internet connection.

Connect the included mouse to a USB port on the recorder.

Connect the recorder to a monitor using the included HDMI cable or a VGA cable (not included). The HDMI port supports up to 4K resolution, and VGA supports up to 1080p.

Use the included power adapter to connect the recorder to a nearby outlet.

IMPORTANT: To optimize picture quality, set the recorder’s video output to match the resolution of your monitor. See the section Changing the Recorder’s Output Resolution on the rear for details.

Overview of extra ports:

Audio In/Out
Connect microphone / speaker

For camera compatibility information, visit lorex.com/compatibility.

* Not included / sold separately.

When you first power up your recorder, the Lorex Setup Wizard will begin. The Wizard will help you configure core system settings. You will also create a secure password. For future reference, it is recommended that you record your password here:

Record your password below and store in a secure place:

Lorex Fusion supports connectivity with select wireless devices to the NVR. To learn more about fusion connectivity and which Lorex devices are compatible with this feature, visit lorex.com/pages/fusion.

Reference: Quick Access to System Information

To quickly open a window that displays vital system information such as device ID, model number, firmware version, and IP address:

• Tap the button on the front panel of the recorder.

OR

• Right-click to open the Quick Menu and click Info.
Using the Quick Menu

- During split-screen display mode: Click an individual channel to view in full-screen. Click again to return to the split-screen display mode.
- While navigating menus: Click to open a menu option.
- During live view: Click anywhere on the screen to open the Quick Menu.
- While navigating menus: Click to exit menus.

NOTE:

1. Connect the camera to a router or switch on the same network as the recorder.
2. Search through and play video recordings from the hard drive.
3. Click to open a menu option.
4. Configure the following:

   a. Select camera/live display view.
   b. Control PTZ cameras (not included).
   c. Control auto focus cameras (not included).
   d. Adjust camera color and image settings.
   e. View system information.
   f. Start/stop sequence mode.
   g. Temporarily disable all current audible warnings.
   h. Search and play back recordings.
   i. Open manual recording controls.
   j. Add IP cameras over the LAN.

Add Cameras from the LAN

Follow the steps below to add cameras that are not directly connected to the Power over Ethernet (PoE) ports on the back of the recorder.

NOTE: Please visit lorex.com/compatibility for a list of compatible Lorex IP cameras.

To add cameras from the LAN:

1. Connect the camera to a router or switch on the same network as the recorder.
2. Right-click and select Device Search. If prompted, log in using the system user name (default: admin) and your new, secure password.
3. Configure the following:

   a. Click Device Search.
   b. Check the camera(s) you would like to add.
   c. Click Add. The added device(s) will appear in the Added Device list. Right-click to exit live view.

   a. Click Add to an area for person or vehicle detection on the selected channel. Click and drag the camera to the area.
   b. Check Light next to a rule to flash the camera’s warning light when an object is detected.
   c. Set preferences for the warning light and siren.
   d. Adjust camera color and image video quality.
   e. Set preferences for the warning light and siren.
   f. Set sensitivity and threshold levels to your preference.
   g. Click OK.

   a. Select the channel of a connected camera with person and vehicle detection.
   b. Check Enable underneath Person and/or Vehicle.
   c. Click Set next to Area to set active areas for person and/or vehicle detection. See Figure 1 below for details.
   d. Click Set next to Schedule to set a weekly schedule for person and/or vehicle detection. See Figure 2 below for details.
   e. Select the channel of a connected deterrence camera.
   f. Click Enable underneath Person and/or Vehicle.
   g. Check Active Deterrence Cameras.
   h. Click Set next to Schedule to set a weekly schedule for person and/or vehicle detection. See Figure 3 below for details.
   i. Click Set next to Area to set active areas for person and/or vehicle detection.
   j. Check Light next to a rule to flash the camera’s warning light when an object is detected.
   k. Add IP cameras over the LAN.

Playback and Search

Search through and play video recordings from the hard drive.

To search for and play recordings:

1. From live view, right-click and then click Playback. If prompted, log in using the system user name (default: admin) and your new, secure password.
2. Configure the following:

   a. Use the calendar on the right to select the date to playback.
   b. Check channels you want to play back. Click the grey icon beside each selected channel to select Mainstream (M) or Substream (S) video quality.
   c. Click inside the video bar to select the playback time. Playback starts immediately at the selected time.
   d. Select the type and quality of recordings to search for.
   e. Select the channel(s) to search by.
   f. Select a Start Time and End Time for your search.
   g. Choose a file format for your backed up files.
   h. Click Add to see recordings that match your search.
   i. Check boxes next to recordings you want to back up, then click Start. You may also click Onekey Backup to back up all files that match your search.

Advanced Motion Detection & Deterrence Settings

Configure advanced motion detection and/or active deterrence settings. For a complete list of compatible cameras, navigate to your recorder series at lorex.com/compatibility.

To configure advanced person/vehicle detection or active deterrence:

1. In live view, right-click and click Main Menu. If prompted, log in using the system user name (default: admin) and your new, secure password.
2. Click System then select EVENT. Select the Deterrence tab.
3. Configure the following:

   a. Select the channel of a connected camera with person and vehicle detection.
   b. Check Enable underneath Person and/or Vehicle.
   c. Click Set next to Area to set active areas for person and/or vehicle detection. See Figure 1 below for details.
   d. Click Set next to Schedule to set a weekly schedule for person and/or vehicle detection. See Figure 2 below for details.
   e. Select the channel of a connected deterrence camera.
   f. Click Enable underneath Person and/or Vehicle.
   g. Check Active Deterrence Cameras.
   h. Click Set next to Schedule to set a weekly schedule for person and/or vehicle detection. See Figure 3 below for details.
   i. Click Set next to Area to set active areas for person and/or vehicle detection.
   j. Check Light next to a rule to flash the camera’s warning light when an object is detected.
   k. Add IP cameras over the LAN.

Backup

Backup up recordings from the hard drive to a USB flash drive (not included).

To back up recordings:

1. Insert a USB flash drive (not included) into a free USB port on the recorder.
2. From live view, right-click and then click Main Menu. If prompted, log in using the system user name (default: admin) and your new, secure password.
3. Click Main Menu. Then click BACKUP.
4. Configure the following:

   a. Select the type and quality of recordings to search for.
   b. Select the channel(s) to search by.
   c. Select a Start Time and End Time for your search.
   d. Choose a file format for your backed up files.
   e. Click Add to see recordings that match your search.
   f. Check boxes next to recordings you want to back up, then click Start. You may also click Onekey Backup to back up all files that match your search.

Changing the Recorder's Output Resolution

To ensure the best possible picture quality, set the recorder's output resolution to match the highest resolution supported by your monitor.

IMPORTANT: If you need to switch monitors, make sure you set the recorder to an output resolution supported by the new monitor before switching.

To change the recorder's output resolution:

1. From live view, right-click and then click Main Menu. If prompted, log in using the system user name (default: admin) and your new, secure password.
2. Click Display, then configure the following:

   a. Set Resolution to match the highest resolution supported by your monitor. For example, select 3840×2160 for 4k monitors, or 1920×1080 for 1080p.
   b. Click OK. The recorder will restart before changes take effect.