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.

OR
• 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.

Need Help?
Visit us online for up-to-date software and complete instruction manuals

Visit lorex.com
Search for the model number of your product
Click on the Downloads tab

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:
• Press the button on the front panel of the recorder.
• Right-click to open the Quick Menu and click Info.
Adding 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 **Search for cameras**. The recorder will scan the network for compatible cameras.
3. Once the camera(s) are found, select the channels you want to add and **add**.

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Using the Mouse

- **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.
- **Using the Mouse**
  - **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.

Using the Quick Menu

Right-click anywhere on the live viewing screen to open the Quick Menu.

- a. Select camera/live display view.
- b. Control PTZ camera (not included).
- c. Control auto focus cameras (not included).
- d. Adjust camera color and image settings.
- e. Display stream information.
- f. Start/stop sequence mode.
- g. Temporarily disable all current audible warnings.
- h. Search and play back recordings.
- i. Search for and play back person / vehicle detection events.
- j. Open manual recording controls.
- k. Add IP cameras over the LAN.
- l. Open Main Menu.

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 gray icon beside each selected channel to select Main Stream (M) or Sub Stream (S) video quality.
   - c. Click inside the video bar to select the playback time. Playback starts immediately at the selected time.

Backup

Back 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 **Backup**, 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. Click **Backup** 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 **Deterrence** then select **EVENT**. Select the SMD/Deterrence tab.
3. Configure the following:
   - a. Select the channel of a connected camera with person and vehicle detection.
   - b. Check **Enable** next to **Smart Motion Detection**.
   - c. Check **Enable** next to **Person** and/or **Vehicle**.

   **IMPORTANT:** A maximum of 8 channels will support person/vehicle detection at once.

   - d. Click **Set** next to **Area** to set active areas for person and/or vehicle detection. See Figure 1 below for details.
   - e. Click **Set** next to **Schedule** to set a weekly schedule for person and/or vehicle detection. See Figure 2 below for details.
   - f. Set preferences for the warning light and siren.
   - g. Click **OK**.

   ![Figure 1: Detection Area](image)

   **Figure 1: Detection Area**

   - The default schedule, shown in Figure 2, is active during the night, between 5pm and 7am.
   - Click **Set** to change the schedule for the corresponding day of the week.
   - Click **OK** when finished.

   ![Figure 2: Schedule](image)

   **Figure 2: Schedule**

   - The camera image appears with a grid overlay. The green area is the active area for deterrence.
   - Click or click-and-drag to add / remove boxes from the active area.
   - In Figure 2, the only motion around the doorway will trigger the warning light.
   - Right-click when finished.

   ![Figure 3: Deterrence Area](image)

   **Figure 3: Deterrence Area**

   To set off all connected deterrence cameras’ warning lights and sirens, press and hold the **ESC** button for 3 seconds.

Changing the Recorder’s Output Resolution

The system will automatically match the resolution of the connected monitor the first time you use the recorder. **IMPORTANT:** If you need to switch the monitor, make sure you set the recorder to an output resolution, supported by the device you want to use.

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 **3840x2160** for 4K monitors, or **1920x1080** for 1080p.
   - b. **Start**. The recorder will restart before changes take effect.

   ![Changing the Recorder’s Output Resolution](image)

   **Figure 1: Changing the Recorder’s Output Resolution**

   - The camera image appears with a grid overlay. The green area is the active area for deterrence.
   - Click or click-and-drag to add / remove boxes from the active area.
   - In Figure 2, the only motion around the doorway will trigger the warning light.
   - Right-click when finished.