

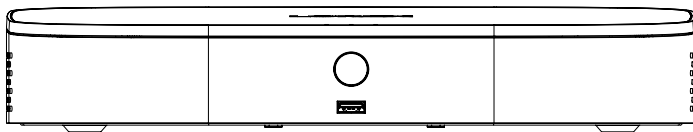
Quick Setup Guide

Physical setup of the recorder and essential system settings

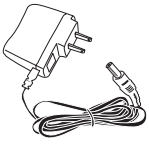


D841 Series

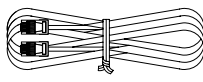
Package Contents



4K Ultra HD Security DVR



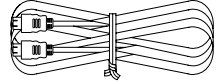
Power Adapter



Ethernet Cable

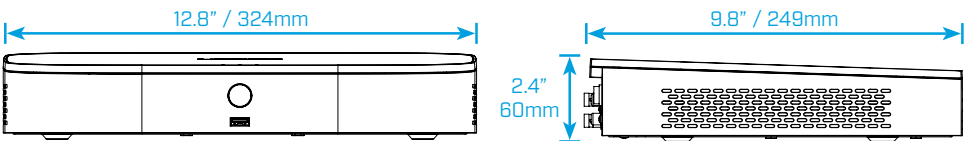


USB Mouse



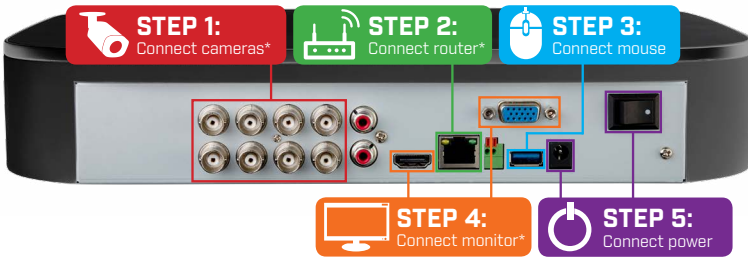
HDMI Cable

Dimensions



Setting Up Your Recorder

See the steps below (expanded instructions to the right) to complete initial setup of the recorder:



8-channel configuration shown. 16-channel will have the respective number of video inputs. For camera compatibility information, visit lorex.com/compatibility.

* Not included / sold separately.

Overview of extra ports:



Audio In/Out
Connect microphone / speaker*

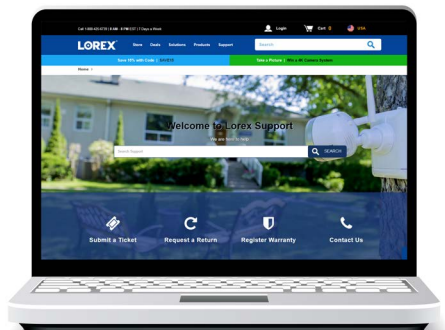
RS485
Connect Pan-Tilt-Zoom (PTZ) cameras*

NOTE: For full instructions on using the extra ports, please refer to your security recorder's instruction manual at lorex.com.

Need Help?

Visit us online for up-to-date software and complete instruction manuals.

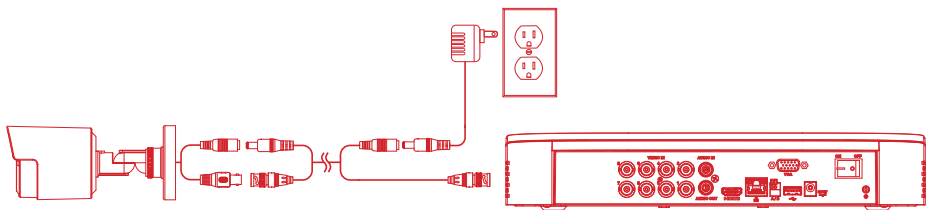
- 1 Visit lorex.com
- 2 Search for the model number of your product
- 3 Click on your product in the search results
- 4 Click on the **Downloads** tab



Back panels shown below are for illustration only. Your recorder's back panel may appear different, with all the same ports in different locations.

STEP 1: Connect cameras*

Test your cameras prior to selecting a permanent mounting location by temporarily connecting the cameras and cables to your DVR.

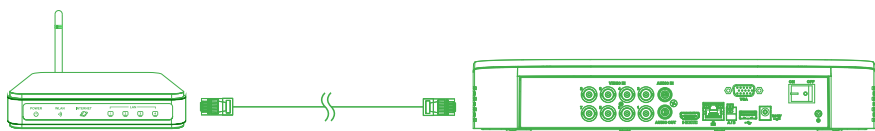


NOTES:

- The extension cable must be a single stretch of cable between the recorder and camera. You cannot connect multiple extension cables to each other.
- This guide covers connecting cameras to your security recorder only. For full instructions on installing your cameras, please refer to your camera's documentation at lorex.com.
- Before selecting a permanent mounting location for your cameras, see **Ensuring Accurate Person and Vehicle Detection** below for important camera installation notes.

STEP 2: Connect router*

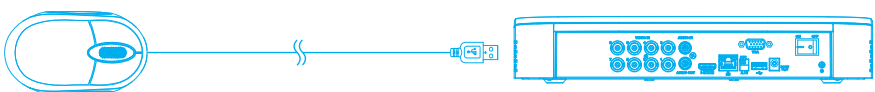
Connect the recorder to your router using the included Ethernet cable.



NOTE: 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.

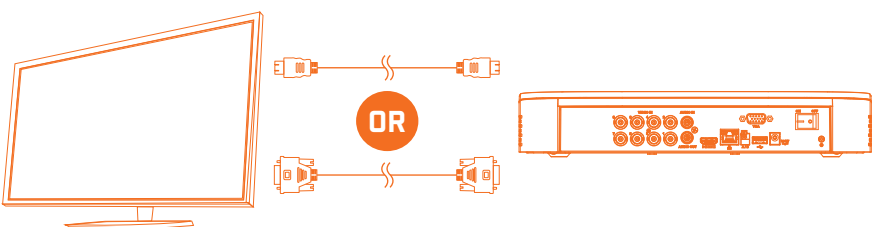
STEP 3: Connect mouse

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



STEP 4: Connect monitor*

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.



IMPORTANT: The system will automatically match the resolution of the connected monitor the first time you use the recorder. If you need to switch monitors, make sure you set the recorder to an output resolution supported by the new monitor before switching. See **Changing the Recorder's Output Resolution** on the rear for details.

STEP 5: Connect power

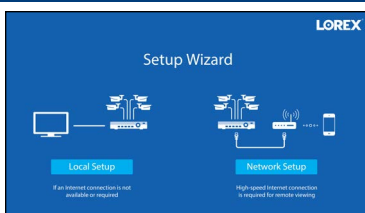
Use the included power adapter to connect the recorder to a nearby outlet. Turn the recorder on using the power switch on the back panel.



STEP 6: Lorex Setup Wizard

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:

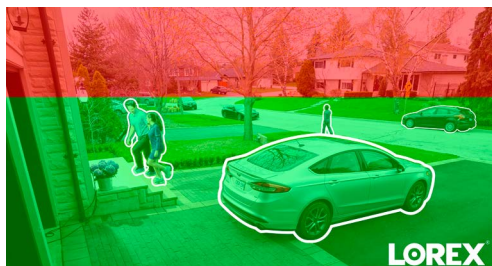


Record your password below and store in a secure place:

Ensuring Accurate Person and Vehicle Detection

The following are important camera installation notes to ensure accurate person and vehicle detection. For full camera mounting instructions, see your camera's documentation at lorex.com.

- Angle the camera so that objects of interest appear in the bottom 2/3 of the camera image.
- Choose a location where objects of interest will be no further than 50ft (~15m) from the camera.



Lower accuracy for objects further away than 50ft (~15m) and/or in the top 1/3 of the image.

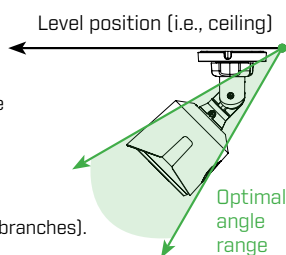
Optimal accuracy for objects within 50ft (~15m) and in the bottom 2/3 of the image.

- Angle the camera between 30-60° down from the level position.
- Install the camera between 8-16ft (2.5-5m) off of the ground.

NOTE: Accuracy of person and vehicle detection will be influenced by multiple factors, such as the object's distance from the camera, the size of the object, and the height and angle of the camera. Night vision will also impact the accuracy of detection.

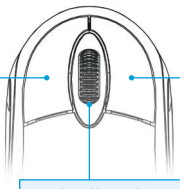
Additional Installation Tips:

- Point the camera where there is the least amount of obstructions (e.g., tree branches).
- Install the camera where vandals cannot easily reach.
- Secure cabling so that it is not exposed or easily cut.
- This camera is rated for outdoor use. Installation in a sheltered location is recommended.



Using the Mouse

- **During split-screen display mode:** Click an individual channel to view it 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.

During live view: Use the scroll wheel to zoom in / out.

NOTE: In live view, hover the mouse cursor over the top of the screen to open the Navigation Bar. Move the mouse cursor away from the top of the screen to close the Navigation Bar.

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



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

- Open Main Menu.
- Search and playback recordings.
- Control PTZ cameras (not included).
- Select camera / live display view.
- View previous / next channel(s).
- View system information.
- Start/stop sequence mode.
- Temporarily disable all current audible warnings.
- Open manual recording controls.
- Adjust camera color and image settings.

Changing the Recorder's Output Resolution

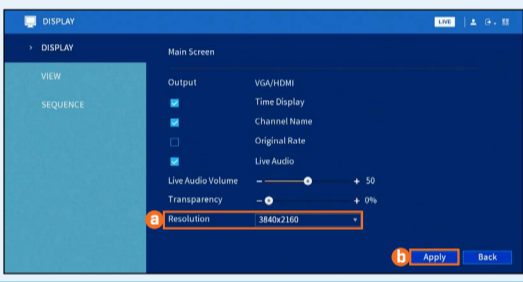
The system will automatically match the resolution of the connected monitor the first time you use the recorder.

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

To change the recorder's output resolution:

- 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.
- Click **DISPLAY**, then configure the following:

- Set **Resolution** to match the highest resolution supported by your monitor. For example, select **3840x2160** for 4K monitors, or **1920x1080** for 1080p.
- Click **Apply**. The recorder will restart before changes take effect.



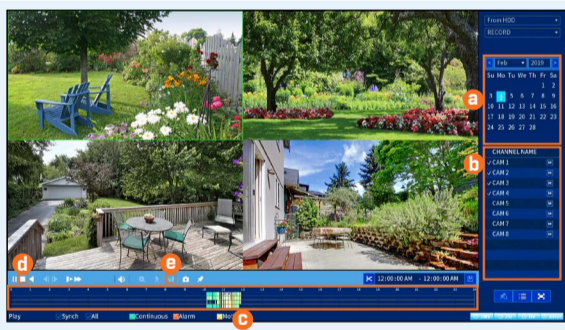
Playback

Search through and play video recordings from the hard drive.

To search for and play recordings:

- 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.
- Configure the following:

- Use the calendar on the right to select the date to playback.
- Check channels you want to play back. Click the icon beside each selected channel to select **Mainstream (M)** or **Substream (S)** video quality.
- Click inside the video bar to select the playback time. Playback starts immediately at the selected time.



To filter for person / vehicle recordings:

PREREQUISITE: You must enable **Smart Motion Detection** on any and all channels you would like to filter for person / vehicle detection. See the section **Motion & Advanced Person/Vehicle Detection** for details.

- Click to stop current playback.
- Hover over the icon. Check **Person and Vehicle** to filter available playback events. Wait a few seconds for the video bar to show detection events.

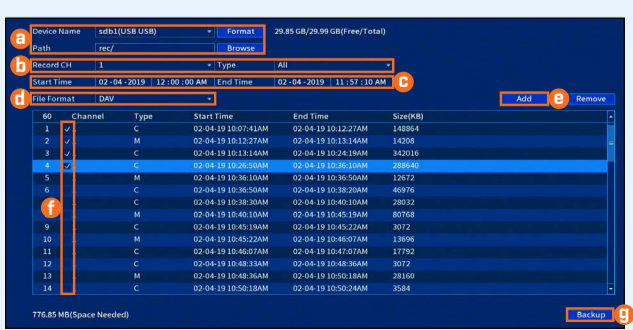
Backup

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

To back up recordings:

- Insert a formatted USB flash drive (not included) into a free USB port on the recorder.
- 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.
- Click **BACKUP**.
- Configure the following:

- Select your USB drive and the folder for the backup.
- Select the channel(s) and recording types to search by.
- Select a start and end time.
- Choose a file format.
- Click **Add** to see recordings that match your search.
- Check boxes next to recordings you want to back up.
- Click **Backup**.

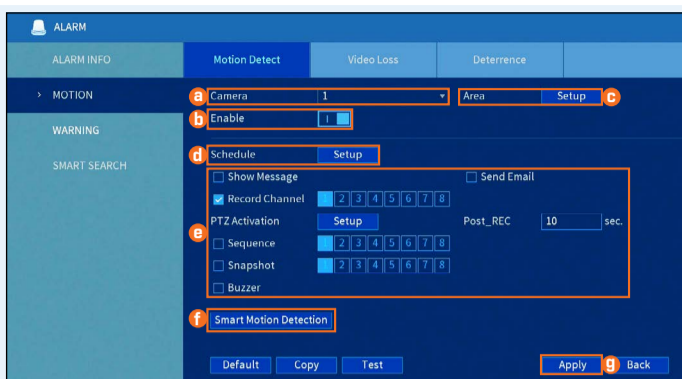


Motion & Advanced Person/Vehicle Detection

Set preferences for motion detection. This section includes setup of person/vehicle detection. By default, person/vehicle detection is enabled on channels 1-4.

To configure motion & advanced person/vehicle detection:

- 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.
- Click **ALARM**. Click **MOTION** on the far-left, then click the **Motion Detect** tab.
- Configure the following:



- Select the channel you would like to configure.
- Click **Enable**.
- Click **Setup** next to **Area** to set an active area for motion detection. See **Figure 1** below for details.
- Click **Setup** next to **Schedule** to set the weekly schedule for motion detection. See **Figure 2** below for details.
- Set preferences for how the system reacts to motion detection events.
- Click **Smart Motion Detection** to enable person / vehicle detection. See **Figure 3** below for details.
- Click **Apply** to save changes.



Figure 1: Motion Detection Area

- The camera image appears with a red grid overlay. This means the entire image is enabled for motion detection.
- Click or click-and-drag to add / remove boxes from the active area. Cells that have been removed from the active area appear green.
- Hover near the top of the image to reveal zone selection. You can set up to 3 different zones with different sensitivity and threshold values.
- Right-click when finished.

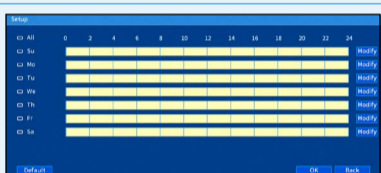


Figure 2: Motion Schedule

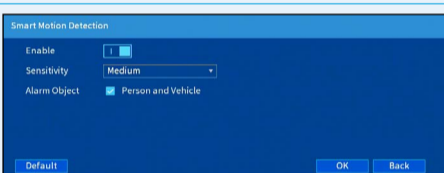


Figure 3: Smart Motion Detection

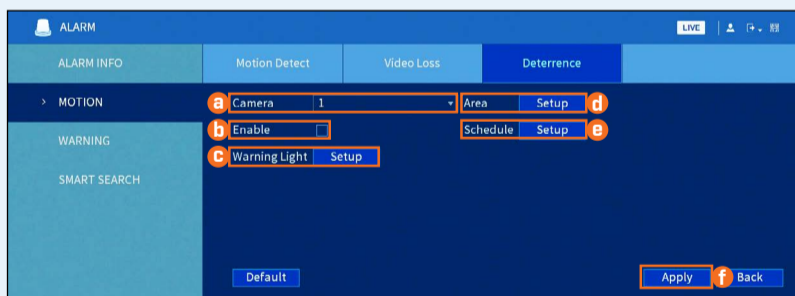
- The default schedule, shown in **Figure 2**, is active at all times.
- Click **Modify** to change the schedule for the corresponding day of the week.
- Click **OK** when finished.
- Click **Enable** to allow detection of people and vehicles on the selected channel.
- IMPORTANT:** A maximum of 4 channels will support person/vehicle detection at once. By default, channels 1-4 have person/vehicle detection enabled.
- Select a **Sensitivity** level (a high sensitivity value will detect smaller objects than a low value).
- Check **Person and Vehicle**.
- Click **OK** when finished.

Configuring Deterrence Settings

Set preferences for automatic warning light triggering on compatible Lorex deterrence cameras. For a complete list of compatible deterrence cameras, navigate to your recorder series at lorex.com/compatibility.

To configure deterrence settings:

- 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.
- Click **ALARM**. Click **MOTION** on the far-left, then click the **Deterrence** tab.
- Configure the following:



- Select the channel of a connected deterrence camera.
- Check **Enable**.
- Click **Setup** next to **Warning Light** to configure preferences.
- Click **Setup** next to **Area** to set an active area for automatic deterrence. See **Figure 4** below for details.
- Click **Setup** next to **Schedule** to set the weekly schedule for automatic deterrence. See **Figure 5** below for details.
- Click **Apply**.

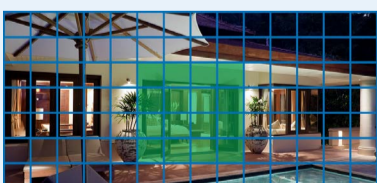


Figure 4: Deterrence Area

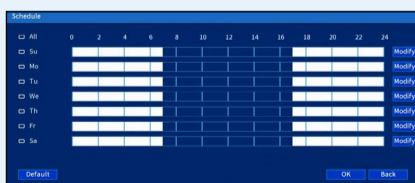


Figure 5: Deterrence Schedule

- 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 4**, only motion around the doorway will trigger warning light.
- Right-click when finished.
- The default schedule, shown in **Figure 5**, is active during the night, between 5pm and 7am.
- Click **Modify** to change the schedule for the corresponding day of the week.
- Click **OK** when finished.



To set off all connected deterrence cameras' warning lights and sirens, press and hold the front panel button for 3 seconds.



LOREX[®]

5MP HD Active Deterrence
Security Camera

Quick Start Guide
English Version 2.0



C581DA SERIES

www.lorex.com

Package Contents

- 5MP HD Active Deterrence Security Camera
- Mounting Kit*
- BNC / Power Extension Cable*
- Power Adapter**

* Per camera in multi-camera packs.

** A multi-camera power adapter that provides power to multiple cameras or individual power adapters may be provided depending on product configuration.

ATTENTION:

A REGULATED UL / CSA APPROVED power supply is REQUIRED for use with this camera (included). Use of a non-regulated, non-conforming power supply can damage this product and voids the warranty.



Using Deterrence Features

Use your Lorex app to manually activate the camera's white light and siren features when connected to a compatible Lorex recorder.

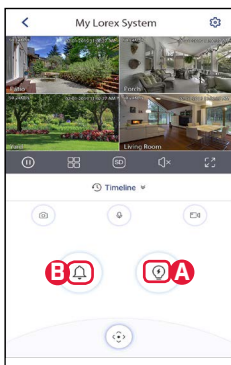


PREREQUISITE: Connect to your Lorex system using the app specified in your recorder documentation.

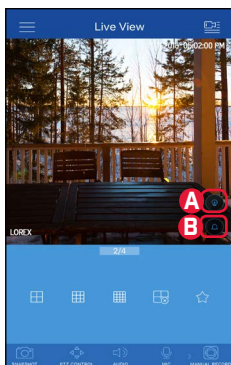
To activate deterrence features manually:

1. Launch the app and tap your recorder to view connected channels.
2. Tap a connected deterrence camera to open it in single-channel view.
3. Tap  **(A)** to activate the white light, or tap  **(B)** to activate the siren.

Lorex Home



Lorex Cloud



NOTE: You can also set schedules and active areas of the camera image where the white light will be triggered automatically when motion is detected. For full instructions, refer to the app manual on your product page at [lorex.com](https://www.lorex.com).

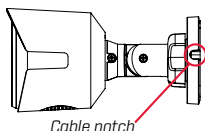
Installing the Camera

ATTENTION:

Test your camera prior to selecting a permanent mounting location by temporarily connecting the camera and cable to your recorder.

Before Installing the Camera

- Decide whether to run the cables through the wall / ceiling (drilling required) or along the wall / ceiling.
- If you run the cables along the wall / ceiling, you must run the cable through the **cable notch** on the base. This will keep the camera base flush to the surface when mounted.

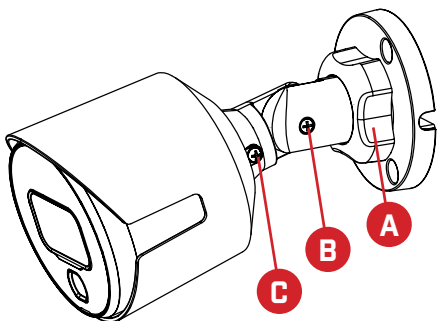


To install your camera:

1. Set the camera in the desired mounting position and mark holes for screws through the camera base.
2. Drill the holes, then feed the cable through the mounting surface or cable notch.

NOTE: Insert the included drywall anchors if you are mounting the camera onto drywall.

3. Mount the camera stand to the mounting surface using the provided screws. Make sure all screws are fastened tightly.
4. Adjust the camera as shown below:



A. ROTATING THE ARM: Loosen the adjustment ring by turning it counter-clockwise. Rotate the arm of the camera up to 360°, then tighten the adjustment ring.

B. BENDING THE ARM: Use a Phillips head screwdriver (not included) to loosen the adjustment screw. Bend the arm of the camera up to 90°, then tighten the screw.

C. LEVELING THE CAMERA: Use the screwdriver to loosen the adjustment screw. Rotate the camera until it is level with the viewing area, then tighten the screw.

5. Remove the vinyl film from the camera lens when your installation is complete.

Connecting the Camera



Camera



Connect the male power head and the BNC connector to the camera.

DVR

Connect the BNC connector to a video input on your DVR.



Connect the female power head to the included power adapter.



Power Adapter Types

A multi-camera power adapter that provides power to multiple cameras or individual power adapters may be provided, depending on product configuration.

Individual Power Adapter*

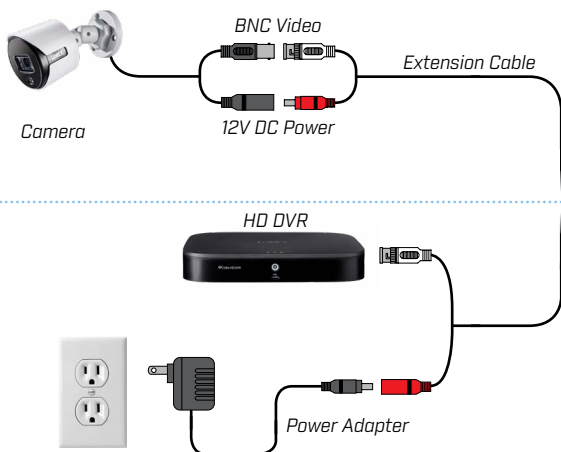


Multi-Camera Power Adapter*



* Images for representation only.

Setup Diagram



Cable Extension Options

Extend the cable run for your camera depending on the cable type used. Additional extension cables sold separately. See table below:

Option	Cable Type	Max Cable Run Distance
1	BNC cable included with the camera	60ft (18m)
2	'RG59' or 'Coax' or 'Coaxial BNC' Siamese (Video and Power)	200ft (61m)
3	'RG59' or 'Coax' or 'Coaxial BNC' (Video Only) ²	800ft (242m)

NOTES:

- The extension cable must be a single stretch of cable between the DVR and camera. You cannot connect multiple extension cables to each other.
- Indicators that your cable run may be too long:
 - Camera loses video when switching to night vision.
 - Video is permanently black & white (even during day time).
 - Video is unclear, soft, or distorted.
- For more information on extension cables, visit lorex.com.

Troubleshooting

Problem	Solution
No picture / signal	<ul style="list-style-type: none"> • The camera is only compatible with certain Lorex DVRs. For full compatibility, visit lorex.com/compatibility. • Ensure your monitor is on the correct input channel. Common terms for input channels: INPUT, AV CHANNEL, LINE1, LINE2, AUX. • Ensure connections are properly connected. • Ensure the camera power supply is plugged in.
Picture is too bright	<ul style="list-style-type: none"> • Ensure your camera isn't pointed directly at a source of light (e.g., sun or spot light). • Check the brightness settings of the DVR and monitor. • Move your camera to a different location.
Picture is too dark	<ul style="list-style-type: none"> • Check the brightness and contrast settings of your DVR and monitor.
Night vision is not working	<ul style="list-style-type: none"> • The night vision activates when light levels drop. The area may have too much light.
Picture is not clear	<ul style="list-style-type: none"> • Check the camera lens for dirt, dust, spiderwebs. Clean the lens with a soft, clean cloth. • Make sure that the cable run is within the limitations specified in the section 'Cable Extension Options'.
Bright spot in video when viewing camera at night	<ul style="list-style-type: none"> • Night vision reflects when pointing a camera through a window. Move the camera to a different location.
The camera warning light is not switching on automatically	<ul style="list-style-type: none"> • Ensure that you have enabled and configured white light deterrence using a compatible DVR. See your DVR's documentation for full instructions. • Ensure the active areas and schedule for white light deterrence are set properly. The default schedule for the warning light is night times (between 5PM and 7AM).
The camera siren is not switching on automatically	<ul style="list-style-type: none"> • The camera siren cannot switch on automatically. You can control the camera siren manually using a compatible Lorex DVR or app. Refer to your DVR's documentation for full instructions.
Person and vehicle detection is not working.	<ul style="list-style-type: none"> • Support for person and vehicle detection is determined by your recorder. See your recorder's documentation to confirm support for this feature.

Resources

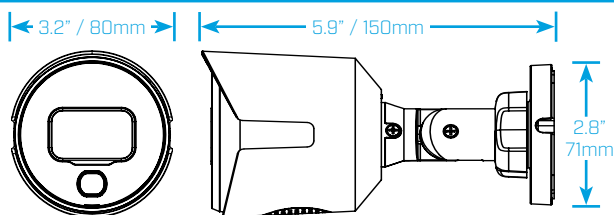
Need Help?

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

- 1 Visit lorex.com
- 2 Search for the model number of your product
- 3 Click on your product in the search results
- 4 Click on the **Downloads** tab



Dimensions



Safety Precautions

- Read this guide carefully and keep it for future reference.
- Follow all instructions for safe use of the product and handle with care.
- Use the camera within given temperature, humidity and voltage levels noted in the camera's specifications.
- Do not disassemble the camera.
- Do not point the camera directly towards the sun or a source of intense light.
- Use only the supplied regulated power supply provided with the product. Use of a non-regulated, non-conforming power supply can damage the product and void the warranty.
- Periodic cleaning may be required. Use a damp cloth only. Do not use any harsh, chemical-based cleaners.
- The supplied cable is rated for surface and in-wall mounting only. Cables for floor-to-floor installations are sold separately (CMR type). These and other cables are available at lorex.com.

Disclaimers

- For a full list of compatible recorders, visit lorex.com/compatibility.
- Not intended for submersion in water. Installation in a sheltered location recommended.
- This camera includes an Auto Mechanical IR Cut Filter. When the camera changes between Day/Night viewing modes, an audible clicking noise may be heard from the camera. This clicking is normal, and indicates that the camera filter is working.

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