Package Contents

- 4K Ultra HD Motorized Varifocal Bullet IP Camera
- Mounting Kit*
- Mounting Template*
- Ethernet Extension Cable with Pre-attached RJ45 Cable Gland*
- Allen Key*

* Per camera in multi-camera packs.

ATTENTION:

It is recommended to connect the camera to the NVR or an external PoE switch. If using a DC power adapter (not included) with the camera, a REGULATED power supply is REQUIRED for use with this camera. Use of a non-regulated, non-conforming power supply can damage this product and void the warranty.

Safety Precautions

- Use the camera only with compatible Lorex NVRs.
- 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 a regulated power supply with the product (optional). 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 mounting only. Cables for in-wall and floor-to-floor installations are sold separately (CMR type). These and other cables are available at lorex.com.

Using the RJ45 Cable Gland (Optional)

The RJ45 cable gland covers the camera’s Ethernet connector and the RJ45 plug to provide weather-resistance and protection from dust, dirt and other environmental contaminants.

The RJ45 cable gland is pre-attached to the included Ethernet extension cable.

To use the RJ45 cable gland:

Twist the RJ45 cable gland barrel securely onto the camera Ethernet connector.

NOTE: The RJ45 cable gland is weather-resistant. Seal the cap with silicone and/or electrical tape for additional sealing if it will be exposed to precipitation regularly.

Cable Extension Options

Extend the Ethernet cable run for your camera up to 300ft (92m). See table below. It is recommended to use UL CMR approved cables available at lorex.com.

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Max Cable Run Distance</th>
<th>Max # of Extensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT5e (or higher) Ethernet cable</td>
<td>300ft (92m)</td>
<td>3</td>
</tr>
</tbody>
</table>

* You can use a RJ45 coupler or switch (not included) to connect male ends of Ethernet cable together.
* To extend the cable run beyond 300ft (92m), a switch will be required (sold separately).

Dimensions

3.7” / 95mm

10.5” / 266mm

Installation Tips

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

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.
- For optimal remote viewing from your recorder, an upload speed of 256kbps per camera is required (default setting). For example, your Internet service package must support 2Mbps or greater upload speed for 8 cameras, 4Mbps or greater for 16 cameras, and 8Mbps or greater for 32 cameras (your Internet service provider can confirm your upload speed). You may lower the resolution and bitrate of camera video streams to further boost performance for slower Internet connections. See your NVR’s user manual at lorex.com for full instructions (see “Configuring Recording Quality” section).

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Installing the Camera

ATTENTION:

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

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. Use the included mounting template to mark holes for the screws. Drill holes for the mounting screws.
   NOTE: Insert the included drywall anchors if you are installing the camera in drywall.
2. Connect cables as shown in the section “Connecting the Camera”.
3. Feed the cable through the mounting surface or cable notch. Mount the camera stand to the surface using the provided screws.
4. Use the included Allen key to loosen the adjustment screw on the camera base. Make the necessary camera angle adjustments.
5. Tighten the adjustment screw to secure the position.
6. Remove the vinyl film from the camera lens when your installation is complete.

Connecting the Camera

To enable / disable audio recording and listen-in audio are disabled by default. Audio recording and / or use of listen-in audio without consent is illegal in certain jurisdictions. Lorex Corporation assumes no liability for use of its products that does not conform with local laws.

Before connecting the camera to your NVR:

- This camera is compatible only with select NVRs supporting 4K camera input. For full camera compatibility, visit lorex.com/compatibility.
- If not using PoE, you must connect the camera to a 12V DC power adapter (not included).
- Ensure your NVR is properly connected to a TV/monitor.
- Ensure your NVR volume is turned on / turned up.
- Ensure the camera is connected to your NVR or to your local network.
- If not using PoE, you must connect the camera to a 12V DC power adapter (not included).
- Make sure that the cable run is within the limitations specified in the section ‘Cable Extension Options’.

Setup Diagram

Scenario 1: Connect Cameras to NVR

- From Live View, right-click and click Main Menu. Enter the system username and password.
- Click Settings and select Recording > Recording.
- Under Channel, select the channel where the camera is connected.
- Under Audio/Video, click Check the box on the left to enable audio recording and listen-in audio.

NOTE: Listen-in audio requires a monitor with speakers or speakers connected to the NVR.
- Under Audio Encoding, select the format that will be used to record audio. G.711A is recommended.
- Click OK to save changes.

Audio Settings

ATTENTION:

Audio recording and listen-in audio are disabled by default. Audio recording and / or use of listen-in audio without consent is illegal in certain jurisdictions. Lorex Corporation assumes no liability for use of its products that does not conform with local laws.

To enable / disable audio recording and listen-in audio through a Lorex NVR:

1. From Live View, right-click and click Main Menu. Enter the system username (default: admin) and password.
2. Click Settings and select Recording > Recording.
3. Under Channel, select the channel where the audio-capable camera is connected.
4. Under Audio/Video:
   A. Check the box on the left to enable audio recording and listen-in audio.
   NOTE: Listen-in audio requires a monitor with speakers or speakers connected to the NVR.
   B. [Optional] Check the middle checkbox to enable audio streaming to mobile applications.
5. Under Audio Encoding, select the format that will be used to record audio. G.711A is recommended.
6. Click OK to save changes.

Connecting the Camera

Connect the other end of the Ethernet cable to the NVR’s PoE ports. The camera may take a minute to power up after being connected.

- Connect the other end of the Ethernet cable to a router or switch on your network. See your NVR manual for details on connecting the camera to your NVR using a switch or router.

Troubleshooting

Problem

No picture / signal

Picture is too bright

Picture is too dark

Night vision is not working

Picture is not clear

Bright spot in video when viewing camera at night

Picture is in color in dark conditions

No audio

Solution

• Ensure the camera is connected to a compatible NVR supporting 4K camera input. For full camera compatibility, visit lorex.com/compatibility.
• The camera may take up to 1 minute to power up after being connected to the NVR. Wait two minutes before following the steps below.
• Ensure the camera is connected to your NVR or to your local network.
• If you are not using PoE, you must connect the camera to a 12V DC power adapter (not included).
• If the camera is connected to the LAN, you must search your network for cameras using the NVR. See the NVR’s instruction manual.
• Ensure your NVR is properly connected to a TV/monitor.
• There may be an issue with your extension cable run. Connect the camera to the NVR using a different Ethernet cable.
• Ensure your camera isn’t pointed directly at a source of light (e.g., sun or spot light).
• Slide the sunshade forward to block excess light.
• Move your camera to a different location.
• Check the brightness and contrast settings on the NVR.
• If using during the day, the camera may not be getting enough light. Slide the sunshade backwards to let in more light.
• Check the brightness and contrast settings on the NVR.
• The night vision activates when light levels drop. The area may have too much light.
• Check the camera lens for dust, dirt, spider webs.
• 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’.
• Night vision reflects when pointing a camera through a window. Move the camera to a different location.
• This camera comes with an image sensor that is extra sensitive to light, meaning that the camera stays in color mode at low-light conditions. For instructions on how to make your camera switch to night mode, visit lorex.com, and search for “How do I make my camera switch to night mode?”.
• Audio is only supported on Lorex NVRs. For a list of compatible recorders, visit lorex.com/compatibility.
• Ensure NVR volume is turned on / turned up.
• Ensure audio function on camera is turned on (see Audio Settings).
• Ensure audio is turned on viewing device.

ATTENTION: This camera is compatible only with select NVRs supporting 4K camera input. For a list of compatible recorders, visit lorex.com/compatibility.

You must connect the camera to a supporting H.265 NVR to take advantage of H.265 compression. For instructions on enabling H.265 compression, visit lorex.com, and search for “How do I enable H.265 compression?”.

Tap to access settings for this camera.
- Tap the switch next to Camera Microphone to enable audio.

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