**Package Contents**

- 5MP HD Dome IP Camera
- Mounting Kit*
- Ethernet Extension Cable with Pre-attached RJ45 Cable Gland*

* Per camera in multi-camera packs.

**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 harsh cleaners or aerosol 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.

**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.
- This camera is rated for outdoor use. Installation in a sheltered location is recommended.

**Using the RJ45 Cable Gland (Optional)**

The pre-attached 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.

To use the RJ45 cable gland:

1. Twist the RJ45 cable gland barrel securely onto the camera Ethernet connector.
2. Seal the cap with silicone and/or electrical tape for additional sealing if it will be exposed to precipitation regularly.

**Dimensions**

**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.

Copyright © 2019 Lorex Corporation
As our products are subject to continuous improvement, Lorex reserves the right to modify product design, specifications and prices, without notice and without incurring any obligation. E&OE. All rights reserved.
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. Rotate the camera base counterclockwise to separate it from the ball camera, adjustment ring, and dome cover.
2. Use the included mounting template to mark and drill holes for the included mounting screws.
3. Feed the cable through the camera base. If you are running the cables against a wall or ceiling, make sure to pass the cable through the cable notch as shown above.
4. Connect the cables as shown in the section 'Connecting the Camera'.
5. Mount the camera base to the mounting surface using the included screws and drywall anchors (optional).
6. Place the adjustment ring over the dome cover, then place both over the ball camera. Twist the adjustment ring clockwise halfway onto the camera base. Do not tighten all the way.
7. Move the ball camera to the desired position. While holding the ball camera firmly in place, twist the adjustment ring the rest of the way to secure it to the camera base. Holding the camera prevents it from moving while securing the adjustment ring.
8. Remove the vinyl film from the camera lens when your installation is complete.

Documenting the Camera

- Ensure the camera is connected to a compatible NVR.
- Test your camera prior to selecting a permanent mounting location by temporarily connecting the camera and cable to your NVR.
- Make sure that the cable run is within the limitations specified in the section 'Cable Extension Options'.
- Check the brightness and contrast settings on the NVR.

Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture / signal</td>
<td>• Ensure the camera is connected to a compatible NVR. For full camera compatibility, visit <a href="http://lorex.com">lorex.com</a> for a list of cameras that are compatible with your NVR. 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. If there is an issue with your extension cable run, connect the camera to the NVR using a different Ethernet cable.</td>
</tr>
<tr>
<td>Picture is too bright</td>
<td>• Ensure your camera isn’t pointed directly at a source of light (e.g., sun or spot light). Move your camera to a different location. Check the brightness and contrast settings on the NVR.</td>
</tr>
<tr>
<td>Picture is too dark</td>
<td>• Check the brightness and contrast settings on the NVR.</td>
</tr>
<tr>
<td>Night vision is not working</td>
<td>• The night vision activates when light levels drop. The area may have too much light. Clean the lens with a soft, clean cloth.</td>
</tr>
<tr>
<td>Picture is not clear</td>
<td>• 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'. Remove the vinyl film from the camera lens when your installation is complete.</td>
</tr>
<tr>
<td>Bright spot in video when viewing camera at night</td>
<td>• Night vision reflects when pointing a camera through a window. Move the camera to a different location.</td>
</tr>
<tr>
<td>Picture is in color in dark conditions</td>
<td>• 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 <a href="http://lorex.com">lorex.com</a>. For more information, search for “How do I make my camera switch to night mode?”</td>
</tr>
</tbody>
</table>

Connecting the Camera

- Connect 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.

Cable Extension Options

<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 (91m)</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 (91m), a switch will be required (sold separately).

Setup Diagram

- Scenario 1: Connect Cameras to NVR
- Scenario 2: Connect Cameras to Local Area Network (LAN)

**ATTENTION:**
- If you use a RJ45 coupler to connect the male ends of the Ethernet cable together, be sure to double check that the cable is not damaged before following the steps below.
- If you are 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.
- There may be an issue with your extension cable run. Connect the camera to the NVR using a different Ethernet cable.

**NOTE:** Extend the Ethernet cable run for your camera up to 300ft (91m). See table below. It is recommended to use UL CMR approved cables available at [lorex.com](http://lorex.com).