

Package Contents

- 4K Ultra HD Motorized Varifocal Bullet Camera
- Mounting Kit*
- BNC / Power Extension Cable*
- Power Adapter**/**

* Per camera in multi-camera packs.

** Only the included power adapter can be used. Do not use 4-in-1 or 8-in-1 power adapters with the camera.

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.

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.
- Make sure you install the camera in a location that can support the camera's weight.
- 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.

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	Model Number	Cable Length
1	CB120URB1A	120ft (37m)
2	CB250URB1A	250ft (76m)

NOTES:

1. The extension cable must be a single stretch of cable between the DVR and camera. You cannot connect multiple extension cables to each other.
2. Extending camera cable runs beyond the included cable length may require you to connect the power supply directly to the camera rather than to the extension cable.
3. 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.
4. For more information on extension cables, visit lorex.com and search for the model numbers of the cables above.

Resources

Need Help?

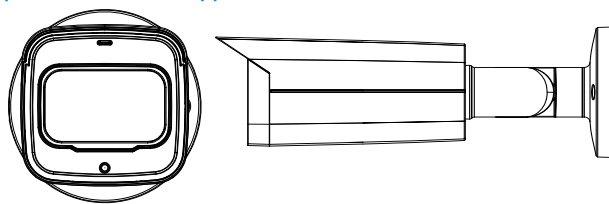
Visit us online for up-to-date software and complete instruction manuals

- 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

3.6" / 90mm 9.6" / 244mm



Disclaimers

- For a full list of compatible recorders, visit lorex.com/compatibility.
- To ensure that you are viewing camera video in full 4K resolution (4K monitor required), check the video output resolution of your recorder. For full instructions, see your recorder's documentation at lorex.com.
- 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.

LOREX®

4K Ultra HD Motorized Varifocal Bullet Camera

Quick Start Guide
English Version 1.0



C861CF SERIES

www.lorex.com

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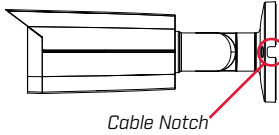
Installing the Camera

ATTENTION:

- Test the camera prior to selecting a permanent mounting location by temporarily connecting the camera(s) and cables to the DVR.
- Make sure you install the camera in a location that can support the camera's weight.

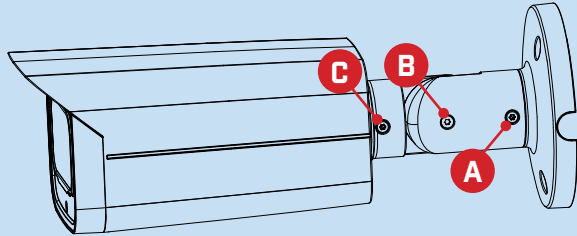
Before Installing the Camera

- 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: Use the included Allen key to loosen the adjustment screw closest to the camera base. Rotate the arm of the camera up to 360°, then tighten the screw.

B. BENDING THE ARM: Use the Allen key to loosen the middle screw. Bend the arm of the camera up to 90°, then tighten the screw.

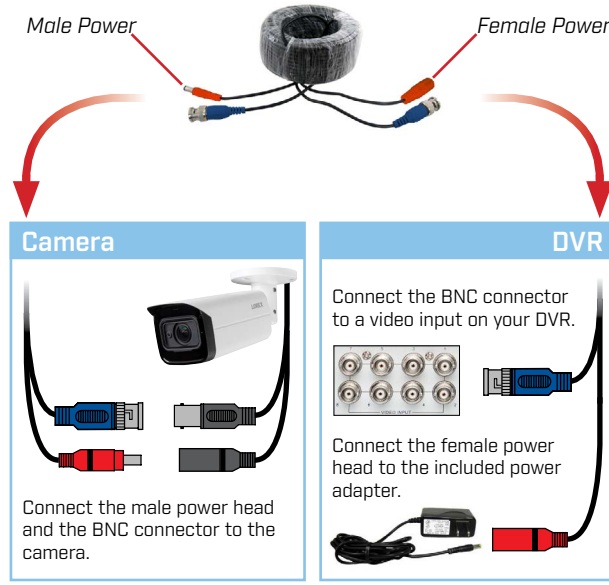
C. LEVELING THE CAMERA: Use the Allen key to loosen the adjustment screw furthest from the camera base. Rotate the camera until it is level with the viewing area, then tighten the screw.

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

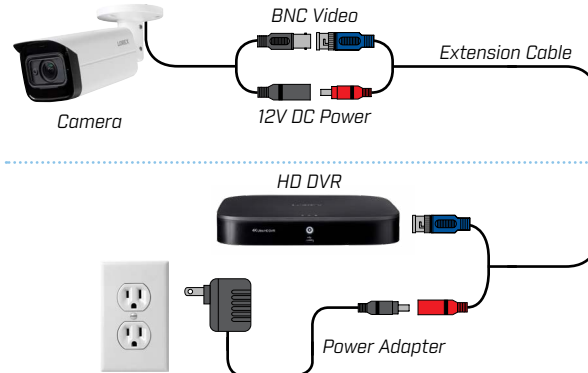
Installation Tips

- 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.

Connecting the Camera

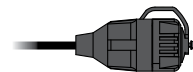


Setup Diagram



Changing HD Format

The camera cable has a dipswitch on it that allows you to set the HD format of the camera.



By default, the camera is in CVI 4K format, which is the recommended setting for use with Lorex 4K recorders.

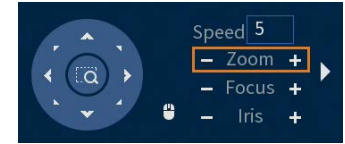
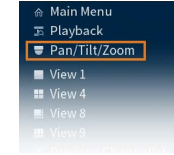
Switches	HD Format	Max. Resolution
	CVI (default)	4K [8MP]
	AHD	5MP
	TVI	5MP
	CVBS	960H

Adjusting Optical Zoom

The camera has a motorized varifocal lens that allows you to adjust the optical zoom level using your recorder.

To adjust zoom using a Lorex recorder:

1. From the Live Viewing screen, right-click to open the Quick Menu, then click **Pan/Tilt/Zoom**.
2. Click +/- next to **Zoom** to adjust the camera's optical zoom level. The camera will automatically refocus once zoom adjustment is complete.



Troubleshooting

Problem	Solution
Picture does not appear to be 4K	• To ensure that you are viewing camera video in full 4K resolution (4K monitor required), check the video output resolution of your DVR. For full instructions, see your DVR's documentation at lorex.com. • Ensure the camera's dipswitch is set to CVI.
No picture / signal	• The cameras are only compatible with certain Lorex HD DVRs. For the full list of compatible recorders, visit lorex.com/compatibility. • Ensure your TV or monitor is on the correct input channel. Common terms for input channels: INPUT, AV CHANNEL, LINE1, LINE2, AUX. • Ensure your DVR is properly connected to your TV or monitor. • Ensure connections are properly connected. • Ensure the camera power supply is plugged in.
Picture is too bright	• 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	• Check the brightness and contrast settings of the DVR and monitor.
Night vision is not working	• The night vision activates when light levels drop. The area may have too much light.
Picture is not clear	• 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.
Bright spot in video when viewing camera at night	• Night vision reflects when pointing a camera through a window. Move the camera to a different location.
Person and vehicle detection is not working	• Support for person and vehicle detection is determined by your recorder. See your recorder's documentation to confirm support for this feature.