



LOREX E893AB Series 4K IP Smart Deterrence Bullet Security Camera User Guide

[Home](#) » [Lorex](#) » LOREX E893AB Series 4K IP Smart Deterrence Bullet Security Camera User Guide 

Contents

- [1 LOREX E893AB Series 4K IP Smart Deterrence Bullet Security Camera](#)
- [2 Package contents](#)
- [3 Dimensions](#)
- [4 Safety precautions](#)
- [5 Disclaimers](#)
- [6 Using deterrence features](#)
- [7 Audio settings](#)
- [8 Troubleshooting](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)
- [10 Related Posts](#)



LOREX E893AB Series 4K IP Smart Deterrence Bullet Security Camera



Package contents

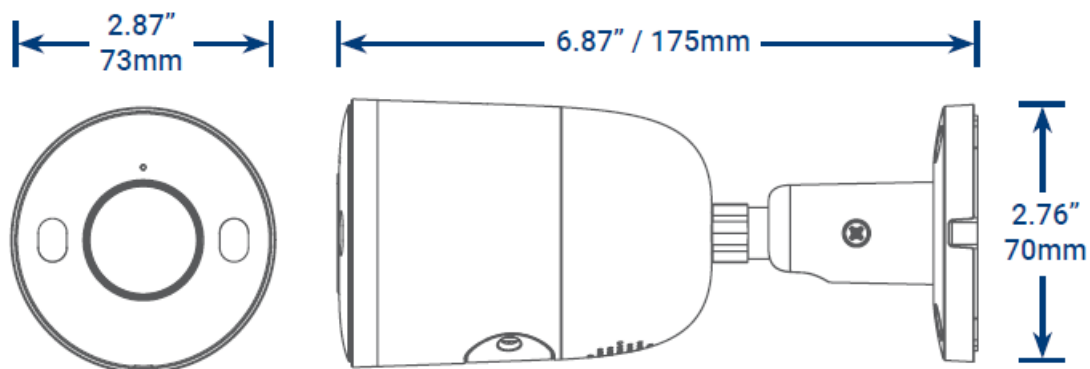
- 4K IP smart deterrence bullet security camera
- Mounting kit*
- Ethernet extension cable with pre-attached RJ45 cable gland*
- Per camera in multi-camera packs.

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. The use of a non-regulated, non-conforming power supply can damage this product and voids the warranty.

User-supplied tools

- Drill (drill bit size 3/16")
- Philips screwdriver

Dimensions



Safety precautions

- Read this guide carefully and keep it for future reference.
- Follow all instructions for safe use and handling of the product.
- Use the camera only with compatible Lorex NVRs.
- Do not disassemble the camera.
- Use the camera within given temperature, humidity and voltage levels noted in the camera's specifications.
- Do not point the camera directly towards the sun or a source of intense light.
- 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.
- Use only a regulated power supply with the product. Use of a non-regulated, non-conforming power supply can damage the product and voids the warranty.
- Periodic cleaning may be required. Use a damp cloth only. Do not use any harsh, chemical-based cleaners.
- Check the packaging of the included cable to verify the cable grade based on the model number. CBL605U: The supplied cable is rated for surface and in-wall mounting. CBL100C5: 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.

Disclaimers

- For a full list of compatible NVRs, 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 NVR. For full instructions, see your NVR's documentation at lorex.com.
- Not intended for submersion in water. Installation in a sheltered location is 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.

Important installation guidelines

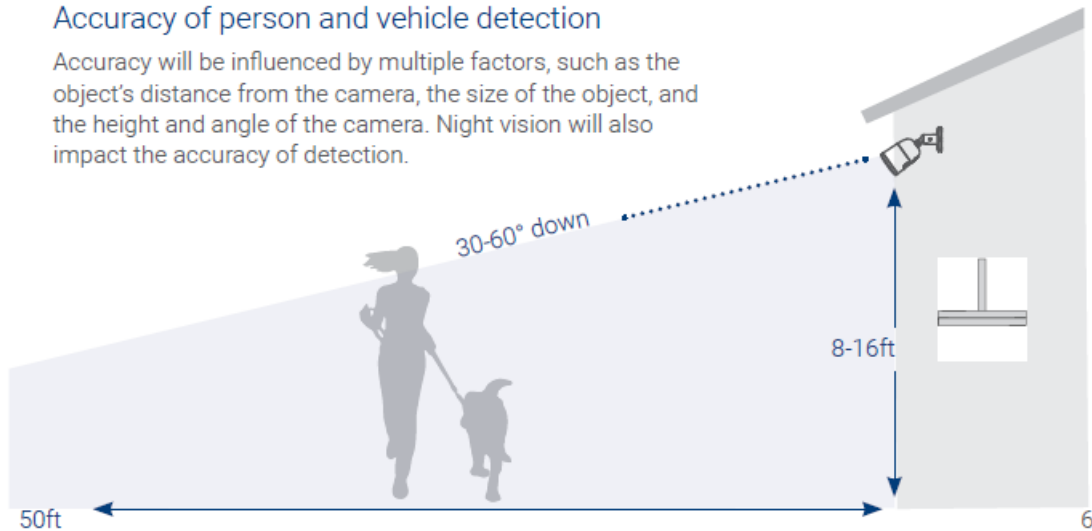
The optimal installation location, including the height and angle of your camera, will depend on the type of detection settings that you want to enable. Since the optimal angle for person and vehicle detection is different from the optimal angle for face detection, you will need to select one approach. Based on your detection preference choose between:

1. Optimizing person and vehicle detection accuracy, see pg.6
2. Optimizing face and mask detection accuracy, see pg.7-9

Optimizing person and vehicle detection accuracy

Accuracy of person and vehicle detection

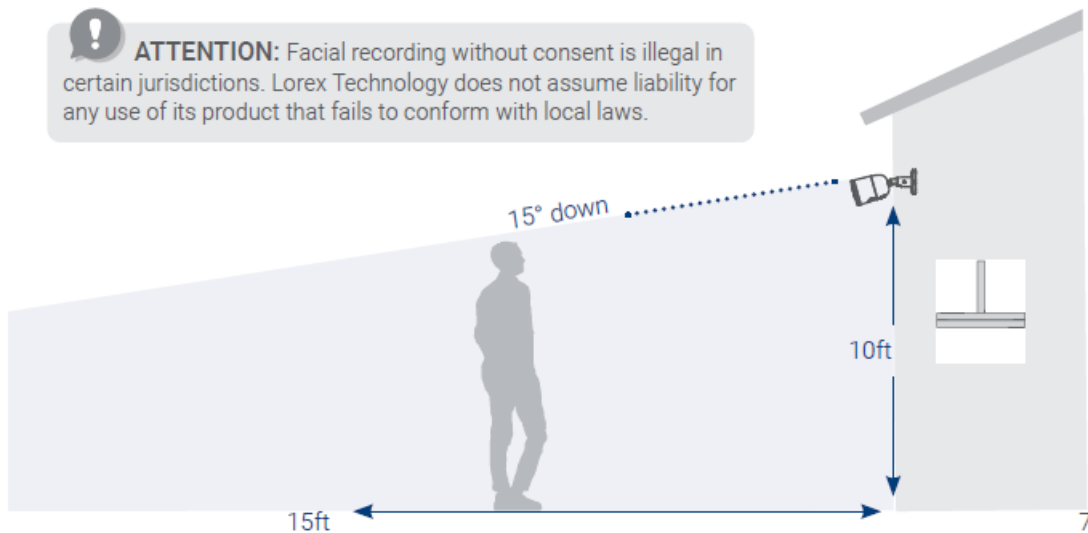
Accuracy will be influenced by multiple factors, such as the object's distance from the camera, the size of the object, and the height and angle of the camera. Night vision will also impact the accuracy of detection.



- Choose a location where objects of interest will be no further than 50ft (15m) from the camera.
- Install the camera between 8-16ft (2.5-5m) off the ground.
- Angle the camera between 30-60° down from the level position.
- Optimal accuracy for objects of interest appears in the bottom $\frac{2}{3}$ of the camera image.

Point the camera where there is the least amount of obstructions (i.e. tree branches). Accuracy of person and vehicle detection Accuracy 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.

Optimizing face and mask detection accuracy

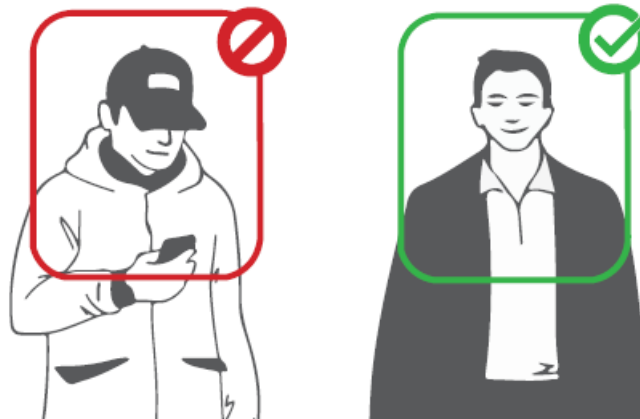


ATTENTION: Facial recording without consent is illegal in certain jurisdictions. Lorex Technology does not assume liability for any use of its product that fails to conform with local laws.

- Install in a bright area and avoid facing direct sunlight with strong backlights and dark shadows.
- Choose a location where objects of interest will be no further than 15ft (4.5m) from the camera.
- Position the camera 10ft (3m) off the ground to detect the full proportion of a face.
- Angle the camera around 15° down from the level position.
- Point the camera directly where objects of interest will be facing.

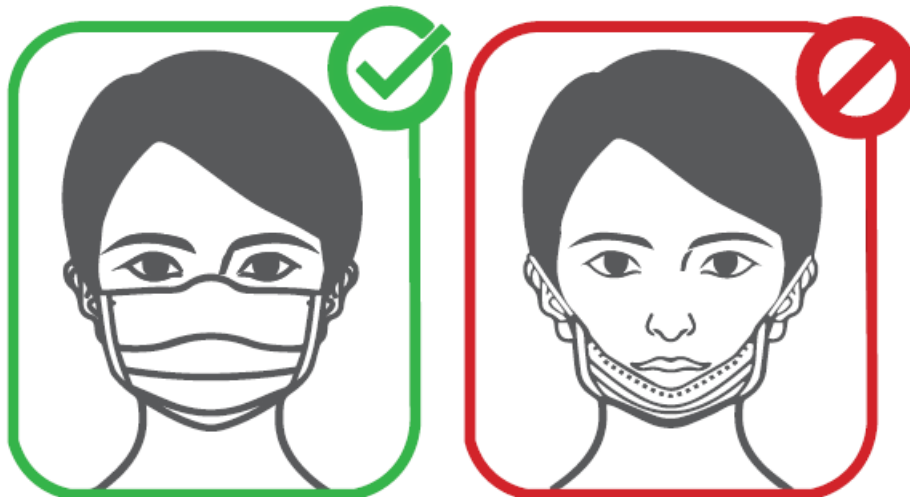
ATTENTION: Facial recording without consent is illegal in certain jurisdictions. Lorex Technology does not assume liability for any use of its product that fails to conform with local laws.

High accuracy Vs. low accuracy face detection Accuracy will be influenced by lighting conditions and the distance/angle of a person's face to the camera. To distinguish facial features, the camera must be positioned head on with a clear view of a person's face. Obscured and partially/fully covered faces will not be accurately captured. To improve the range of face detection in low light conditions, color night vision will switch to black & white. If you cannot meet these requirements for installation, it may be best to follow the guidelines for the person and vehicle detection instead.



Mask detection

With face detection enabled, you can set the alarm type to detect if a person is not wearing a mask. A person not wearing a mask or improperly wearing a mask will be captured in the face preview sidebar and a notification will be sent through the Lorex Home app. The Mask Detect auto-response is enabled by default to remind a non-mask wearer to: "Please wear your face mask".



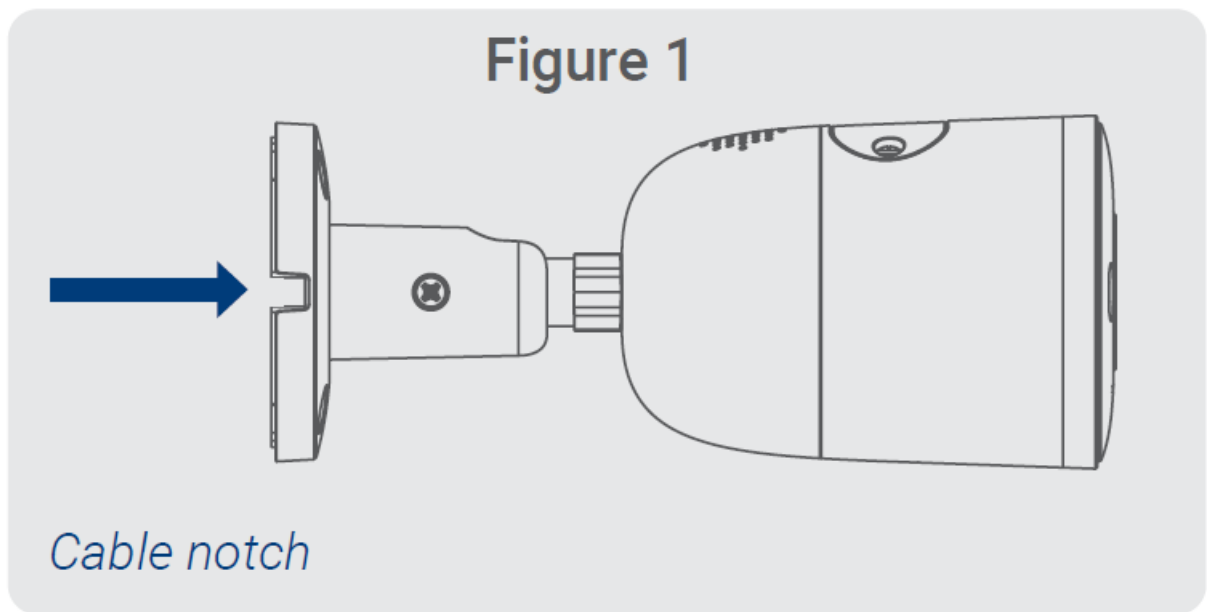
Notes:

- You can enable face detection without using mask detection.
- Face detection is disabled by default. For more information on face detection setup and configuration, refer to your NVR's manual at lorex.com.
- Face detection and mask detection are compatible with certain Lorex NVRs. For a list of compatible NVRs, please visit lorex.com/compatibility.

IMPORTANT!

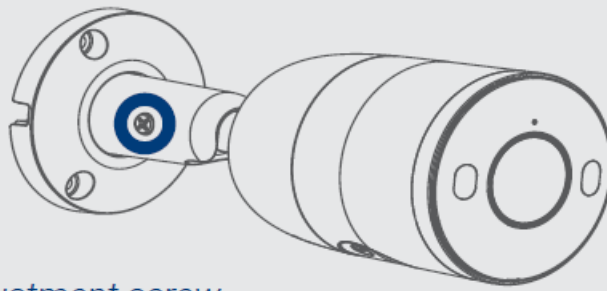
- Test your camera prior to selecting a permanent mounting location by temporarily connecting the camera and cable to your NVR.
- Review "Important installation guidelines" pg.4 before choosing a permanent mounting location.

- Decide whether to run the cables through the wall/ceiling (drilling required) or along with the wall/ceiling. If you run the cables along with the wall/ceiling, you must run the cable through the cable notch located on the base (see Figure 1). This will keep the camera base flush to the surface when mounted.

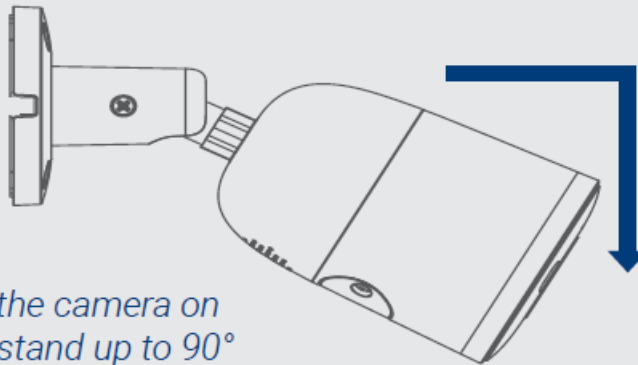


Installing the camera

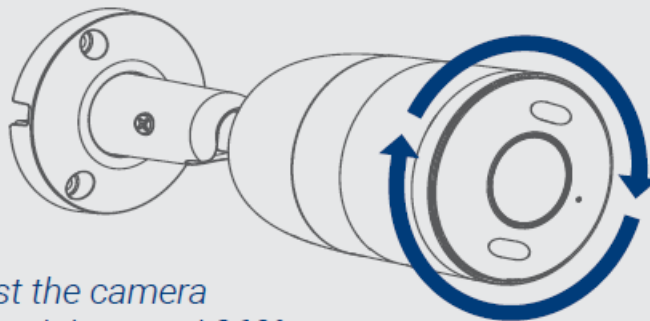
Figure 2



Adjustment screw



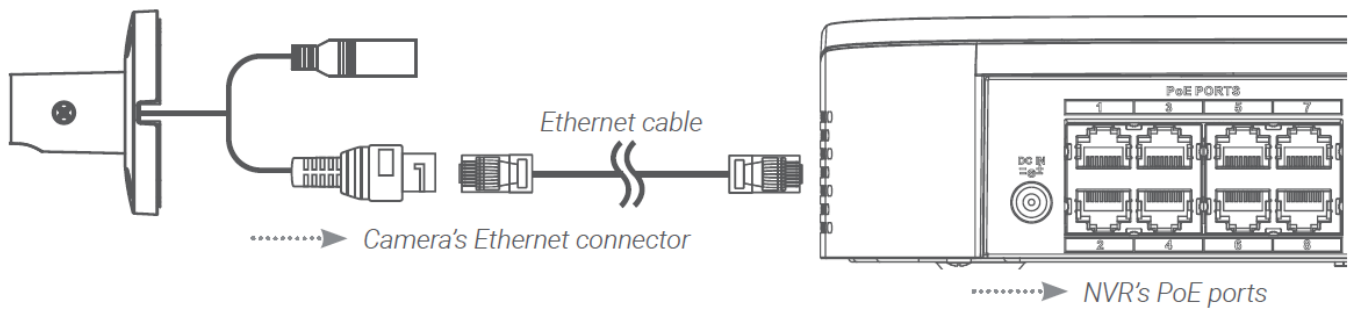
*Tilt the camera on
the stand up to 90°*



*Twist the camera
around the stand 360°*

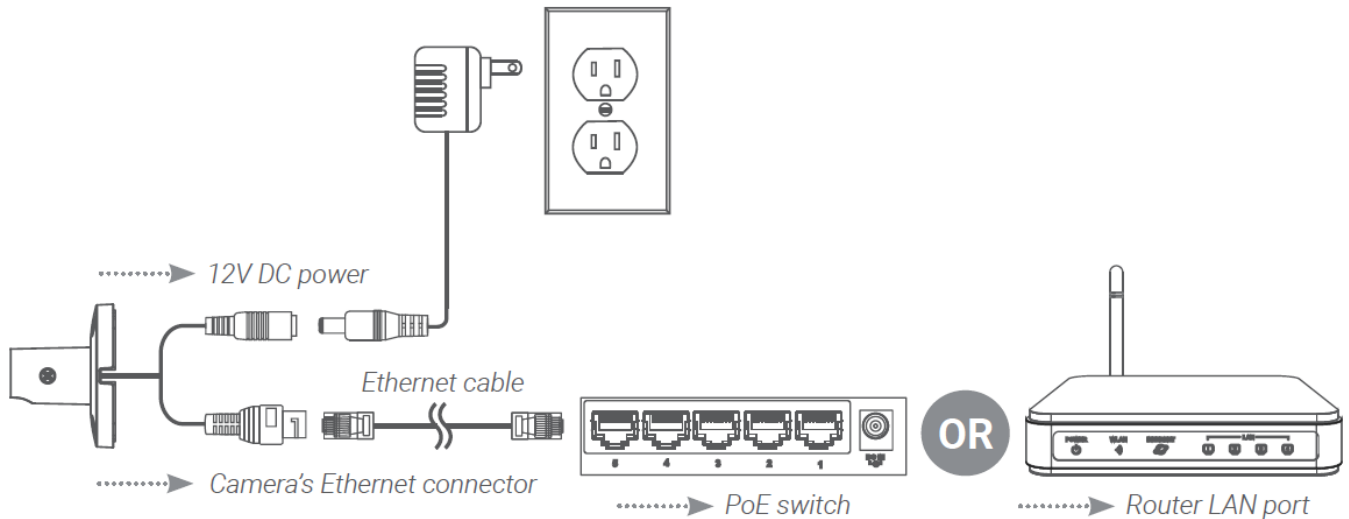
1. Use the included mounting template to mark holes for the screws.
2. Use a 3/16" drill bit to drill holes for the mounting screws. Insert the included drywall anchors if you are installing the camera in the drywall.
3. Connect cables as shown in "Connecting the camera" pg.10-11.
4. Feed the cable through the mounting surface or cable notch and mount the camera stand to the surface using the included screws.
5. Use a Philips screwdriver to loosen the adjustment screw and adjust the camera position as needed (see Figure 2).
6. Tighten the adjustment screw to secure the position.
7. Remove the vinyl film from the camera lens when your installation is complete.

Connecting the camera



Connect the cameras and cables to your NVR using one of the following two setup methods.

Connect cameras directly to the NVR (recommended)



Connect the Ethernet cable to the camera and then connect the other end of the to the NVR's PoE ports. The camera may take a minute to power on after being

Notes:

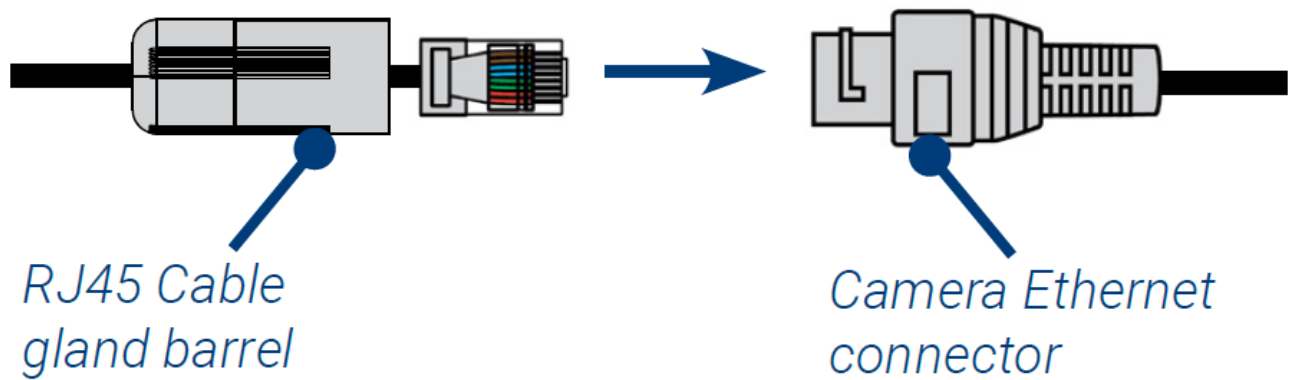
- The smart deterrence camera is only compatible with select NVRs. For a list of compatible NVRs, visit lorex.com/compatibility.
- You must connect the camera to a supporting H.265 NVR to take advantage of H.265 compression. For instructions on enabling H.265 compression, visit lorex.com, and search "How do I enable H.265 compression?".

ATTENTION: A 12V DC power adapter (model#: ACCPWR12V1, not included) is only required if connecting the camera's Ethernet cable to a router or switch that does not support PoE.

Connect cameras to a PoE switch or router on your network (not included)

Connect the Ethernet cable to the camera and then 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 router or switch.

Using the RJ45 cable gland (optional)



The pre-attached RJ45 cable gland covers both 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, twist the RJ45 cable gland barrel securely onto the camera's Ethernet connector.

Tip: 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

You can extend the Ethernet cable run for your camera up to 300ft (91m). To extend the cable run beyond 300ft (91m), a switch will be required (sold separately). Use an RJ45 coupler or a network switch (not included) to connect male ends of Ethernet cables together. We recommend using UL CMR approved cables available at lorex.com.

Using deterrence features

Camera	1	
Enable	Person <input checked="" type="checkbox"/>	Vehicle <input type="checkbox"/>
Area	<input type="button" value="Set"/>	<input type="button" value="Set"/>
Schedule	<input type="button" value="Set"/>	<input type="button" value="Set"/>
Duration	10 sec.	
Warning Light	<input checked="" type="radio"/> Strobe <input type="radio"/>	
<input type="button" value="Refresh"/> <input type="button" value="Apply"/> <input type="button" value="Cancel"/>		

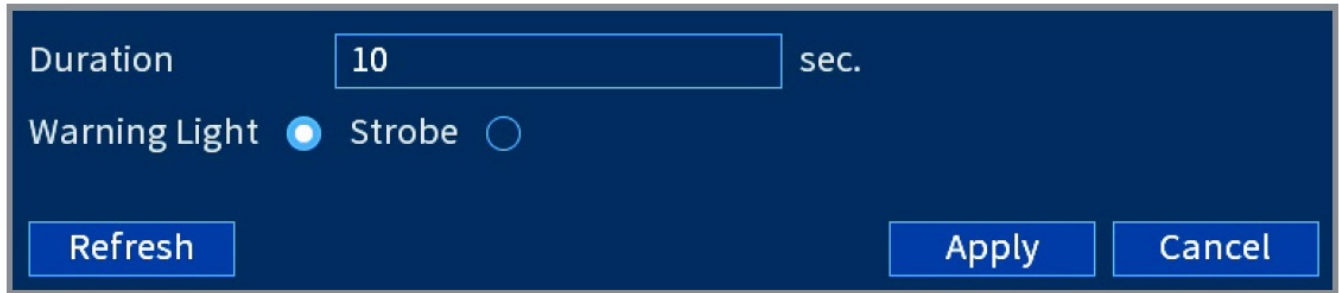
Automatic deterrence settings

To enable the automatic warning light from the NVR:

1. From the camera's live view, right-click and then click Main Menu.
2. Enter the system user name (default: admin) and password.
3. Click EVENTS > Event Settings > Motion > Smd/Deterrence.
4. Under Camera, select the channel connected to the smart deterrence camera.

5. Check Person and/or Vehicle to enable each type of smart detection.
6. Click Set > Area under each detection type you have enabled to set the active areas.
7. Click Set > Schedule to set the weekly schedule.

Using deterrence features (continued)



Duration sec.

Warning Light ☒ Strobe ☐

1. For Duration, choose how long the warning light will stay on when motion is detected.
2. Select Warning Light for a solid white light, or Strobe for a flashing light. If you select strobe, set how quickly the light will flash under Strobe Frequency.
3. Click Apply to save.

Manually activate deterrence features

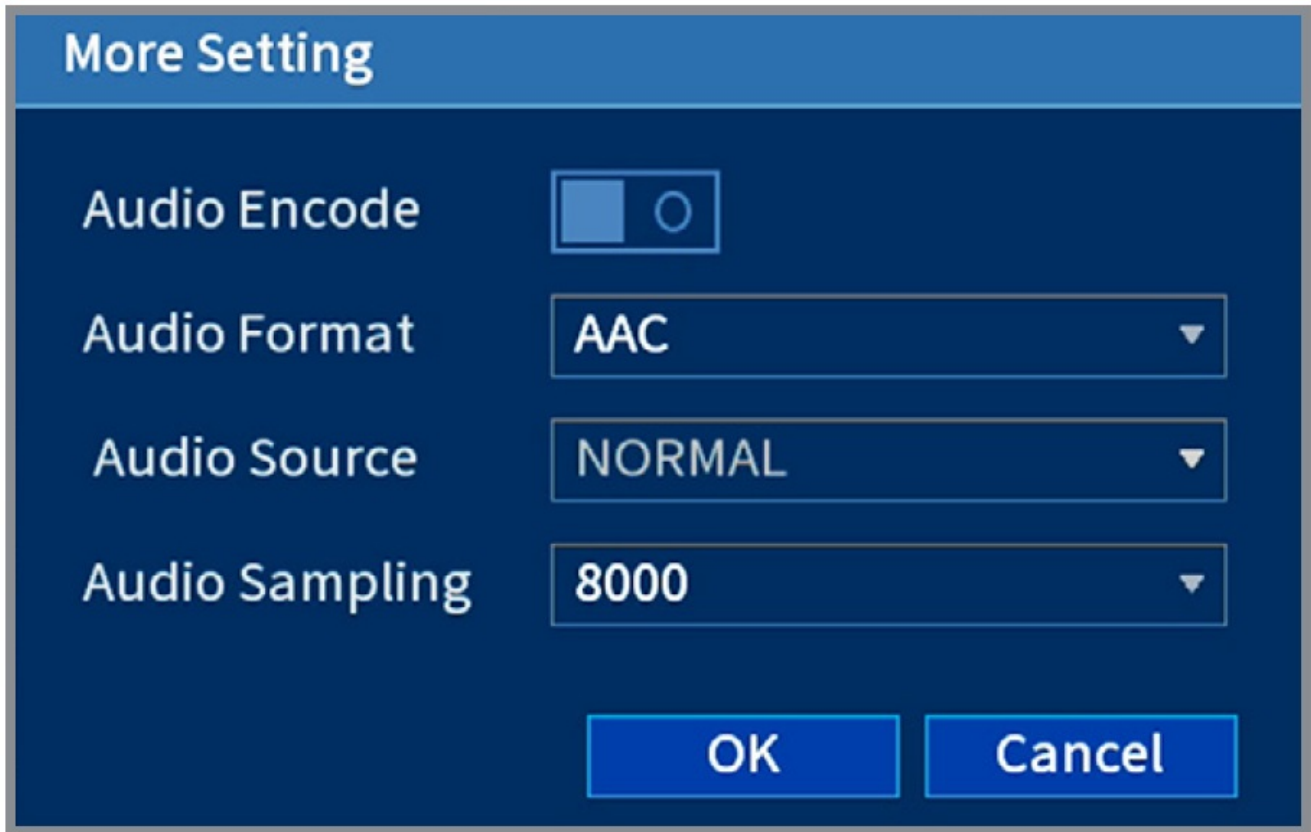
To manually activate the warning light and/or siren features: Prerequisite: Connect to your Lorex system using the app specified in your NVR's documentation.

1. Launch the Lorex app and tap your NVR to view connected channels.
2. Tap a connected smart deterrence camera to open it in single-channel view.
3. Tap to activate the warning light, or tap to activate the siren.

To activate deterrence features on all connected cameras, push and hold the front panel panic button on the NVR for 3 seconds.

Note: For full instructions on using the deterrence features, refer to the NVR's manual on your product page at lorex.com.

Audio settings



The image shows a 'More Setting' dialog box with a dark blue background and a lighter blue header. The header contains the text 'More Setting' in white. Below the header, there are four settings: 'Audio Encode' with a toggle switch (currently off), 'Audio Format' with a dropdown menu showing 'AAC', 'Audio Source' with a dropdown menu showing 'NORMAL', and 'Audio Sampling' with a dropdown menu showing '8000'. At the bottom right, there are two buttons: 'OK' and 'Cancel'.

Setting	Value
Audio Encode	<input type="checkbox"/>
Audio Format	AAC
Audio Source	NORMAL
Audio Sampling	8000

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 audio recording and listen-in audio from the NVR

1. From the camera's live view, right-click and then click Main Menu.
2. Enter the system user name (default: admin) and password.
3. Click Camera and select Recording.
4. . Under Channel, select the channel connected to the audio-capable camera.
5. Under Main Stream, click on the button More Setting.
6. In the pop-up window:
 - A. Enable Audio Encode for audio recording and listen-in audio. (Note: Listen-in audio requires a monitor with speakers or speakers connected to the NVR.)
 - B. Select the Audio Format that will be used to record audio. ACC is recommended.
7. Click OK to save changes.

Troubleshooting


1. No picture/signal.
 1. Ensure the camera is connected to a compatible NVR. For full compatibility, visit lorex.com/compatibility.
 2. 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.
 3. Ensure the camera is connected to your NVR or to your local network.

4. If you are not using PoE, you must connect the camera to a 12V DC power adapter (not included).
5. If the camera is connected to the LAN, you must search your network for cameras using the NVR. See the NVR's instruction manual.
6. Ensure your NVR is properly connected to a monitor.
7. There may be an issue with your extension cable run. Connect the camera to the NVR using a different Ethernet cable.
2. The picture does not appear to be 4K.
 1. To ensure that you are viewing camera video in full 4K resolution (4K monitor required), check the video output resolution of your NVR. For full instructions, see your NVR's documentation at lorex.com.
3. The picture is too bright.
 1. Ensure your camera isn't pointed directly at a source of light (e.g., sun or spotlight).
 2. Move your camera to a different location.
 3. Check the brightness and contrast settings on the NVR.
4. The picture is too dark.
 1. Check the brightness and contrast settings on the NVR.
5. Night vision is not working.
 1. The night vision activates when light levels drop. The area may have too much light.
6. A bright spot in the video when viewing the camera at night.
 1. Night vision reflects when pointing a camera through a window. Move the camera to a different location.
7. The picture is not clear.
 1. Check the camera lens for dirt, dust, spiderwebs. Clean the lens with a soft, clean cloth.
 2. Make sure that the cable run is within the limitations specified in the section 'Cable Extension Options'.
 3. Remove the vinyl film from the camera lens when your installation is complete.
8. The picture is in color in dark conditions.
 1. This camera's image sensor 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?".
9. The camera warning light is not switching on automatically.
 1. Ensure that you have enabled and configured white light deterrence using a compatible NVR. See your NVR's documentation for full instructions.
 2. Ensure the active areas and schedule for white light deterrence are set properly. The default schedule for the warning light is night times (between 5 PM and 7 AM).
10. The camera siren is not switching on automatically.
 1. The camera siren cannot switch on automatically. You can control the camera siren manually using a compatible Lorex NVR or app. Refer to your NVR's documentation for full instructions.
11. . No audio.
 1. Audio is only supported on Lorex NVRs. For a list of compatible NVRs, visit lorex.com/compatibility.
 2. Ensure NVR volume is turned on / turned up.
 3. Ensure the audio function on the camera is turned on (see 'Audio Settings').
 4. Ensure audio is turned up on the viewing device.
12. . Two-way talk not working.
 1. Use the Lorex app specified in your NVR documentation to activate two-way talk. Tap from the camera's live view, then speaks into the microphone on your mobile device. Tap again when finished speaking.

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For up-to-date information and support please visit:
help.lorex.com

Documents / Resources

	LOREX E893AB Series 4K IP Smart Deterrence Bullet Security Camera [pdf] User Guide E893AB Series, 4K IP Smart Deterrence Bullet Security Camera
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References

- [🌐 Lorex Technical Support | LOREX Support](#)

[Manuals+](#)