



User Manual LNZ43P4A Series

4MP IP PoE Wired PTZ Mini Security Camera with AI Detection and 4× Optical Zoom



User Manual LNZ43P4A Series

4MP IP PoE Wired PTZ Mini Security Camera with AI Detection and 4× Optical Zoom

Thank you for purchasing this product. Lorex is committed to providing our customers with a high quality, reliable security solution.

This manual refers to the following model:

LNZ43P4A

For the latest online manual, downloads and product updates, and to learn about our complete line of accessory products, please visit our website at:

lorex.com



WARNING

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

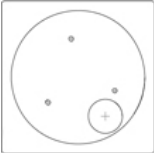
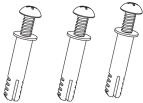
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF THE PLUG TO THE WIDE SLOT AND FULLY INSERT.

Table of contents

1	Safety Instructions	1
2	Getting Started.....	2
3	Connecting the PTZ Camera	3
3.1	Option 1: Connecting the Camera to an NVR.....	3
3.2	Step 1 — Connecting Cameras to the Local Area Network (LAN).....	3
3.3	Step 2 — Adding the PTZ Camera to your NVR.....	6
4	Installation.....	7
4.1	Installation Tips and Warnings	7
4.2	Wall and Ceiling Mounting (Indoor/Outdoor)	7
5	Controlling the PTZ Camera through the NVR	9
5.1	Controlling the PTZ Camera.....	9
5.2	Advanced PTZ Controls.....	9
5.2.1	Presets.....	10
5.2.2	Tours	10
5.2.3	Patterns.....	11
5.2.4	Scan	11
6	Smart Motion Plus	12
6.1	Configuring Smart Motion Plus.....	12
6.2	Searching for Smart Motion Plus	15
6.3	Enable Smart Motion Plus in Smart Plan	16
7	Inserting the microSD Card (Optional) and Resetting the Camera	18
8	Troubleshooting.....	19
9	Technical Specifications.....	20
9.1	Video Transmission.....	20
9.2	Optical	20
9.3	Pan/Tilt Capabilities	20
9.4	Special Features	20
9.5	Night Vision	20
9.6	General	20
9.7	Dimensions.....	21
9.8	Disclaimers.....	21
10	Notices	23
10.1	FCC/IC Notice.....	23
10.2	Modification	23
10.3	ROHS.....	23

- 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 Technical Specifications.
- Camera is rated for outdoor use and is weatherproof when properly installed. Camera is not intended for submersion in water. Installation under a sheltered environment is recommended.
- 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. Use of a non-regulated, non-conforming power supply can damage this product and voids the warranty.
- Make sure to install the camera in a location that can support the camera weight.
- Make sure there are no live electrical cables in the area where you plan to mount the camera.
- Periodic cleaning may be required. Use a damp cloth only. Do not use anything other than water to clean the dome cover, as chemicals such as acetone can permanently damage the plastic.

The camera comes with the following components:

 IP PoE Wired Mini PTZ Camera	 Mounting Plate	 Mounting Template
 Mounting Screws (x3) & Anchors (x3)	 Weather-Resistant Cap	 Instructional Manual

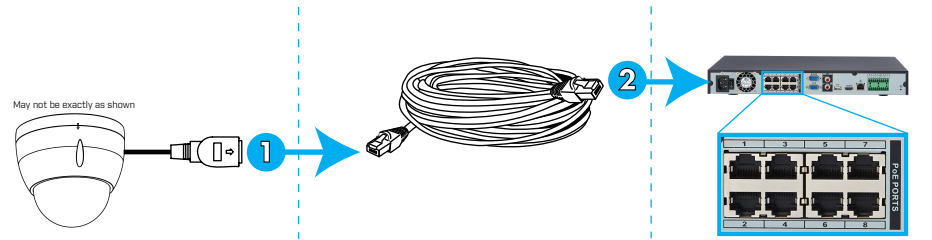
 **NOTE**

Your accessories might appear different from the ones depicted in this guide.

 **NOTE**

It is recommended to connect the camera to your NVR and test the PTZ controls before permanent installation. For instructions on how to set up PTZ controls, see 5 *Controlling the PTZ Camera through the NVR*, page 9.

3.1 Option 1: Connecting the Camera to an NVR



- 1. Connect the PoE+ connector on the camera cable to an Ethernet extension cable.
- 2. Connect the Ethernet extension cable to one of the PoE+ ports on the back panel of your NVR.

 **NOTE**

- You can use up to a 300ft (91m) CAT5e Ethernet cable (not included) to connect the camera to your NVR.
- The camera is compatible with the **N884** Series NVRs. For the most up-to-date list of compatible recorders, please visit lorex.com/compatibility.

- 3. **Alarm:** Connect the camera to an alarm system using alarm output (blue), alarm communication (green), alarm ground (yellow and green), alarm input (red and/or brown).
- 4. **Audio:** Connect the camera to external audio device using audio output (red), audio input (white), and audio ground (black).

3.2 Step 1 — Connecting Cameras to the Local Area Network (LAN)

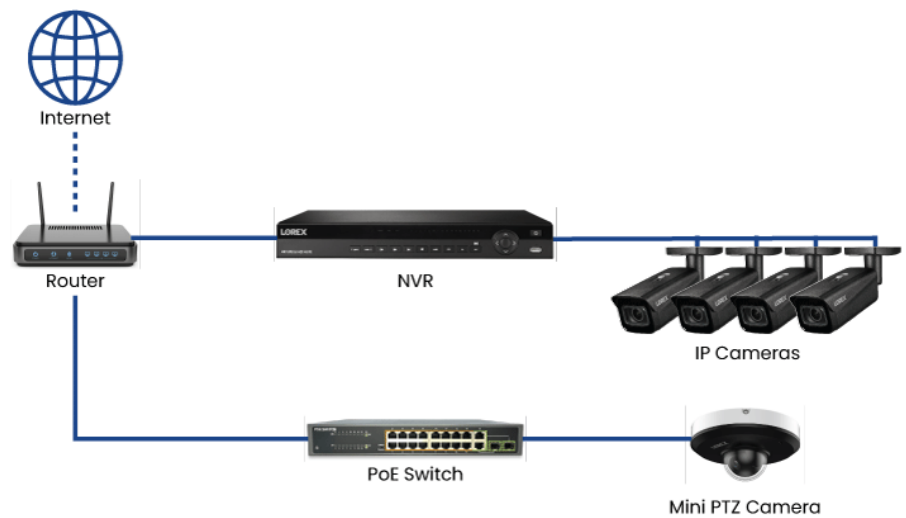
For flexibility, you may also connect the camera to the same Local Area Network (LAN) as the NVR. This is accomplished by connecting the camera to the same router as the NVR. For these installations, an external PoE+ switch (sold separately) or power adapter (sold separately) must be used to provide power to the camera. You also must add the camera on the NVR before it will show a picture on the monitor or be recorded by the NVR.

What is PoE+?

PoE (Power over Ethernet) is a technology that allows Ethernet cables to carry electrical power to connected devices. High-powered devices such as PTZ cameras use PoE+ (also known as PoE class 4 or IEEE 802.3at), which provides more power to connected devices than standard PoE. Compatible NVRs use integrated PoE+ ports to provide power and PTZ commands to the camera, as well as video connection to the NVR. PoE+ ports will provide up to 30W to each connected device, whereas standard PoE (class 3) ports only provide up to 15W. In order to use this PoE+ rated camera without a power adapter, you must connect it directly to a compatible NVR (N884 Series) or a PoE+ switch on the same network as the NVR. PoE+ switches are available for purchase on lorex.com.

Complete the following steps to connect the camera to the NVR over the LAN.

Option A: Connecting the camera to your local network using an optional PoE+ switch:



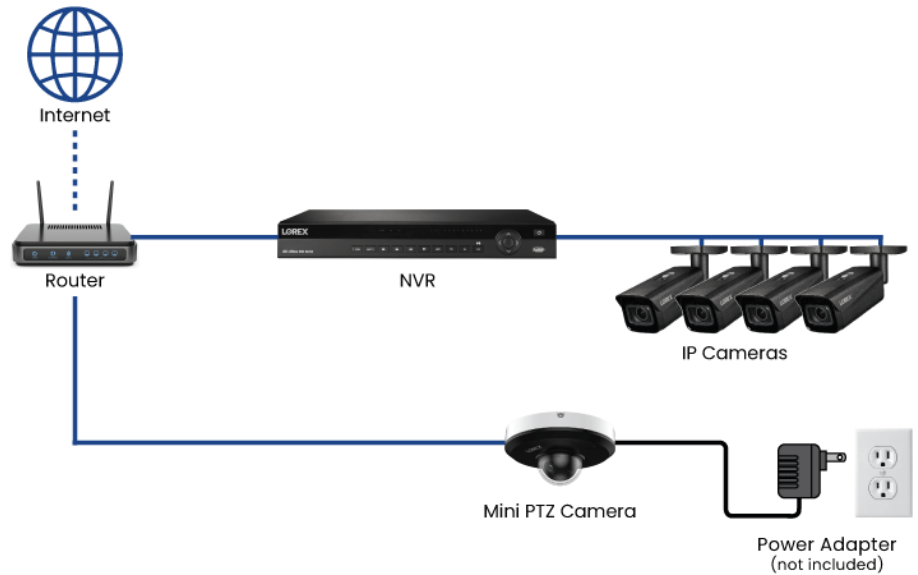
1. Connect an Ethernet cable of up to 300ft (91m) rated CAT5e or higher (not included) from the LAN port on an external PoE+ switch (sold separately on lorex.com) to your router. Connect the power cable to the PoE+ switch and to a power outlet or surge protector.



NOTE

Terminology may vary depending on the model of PoE+ switch you have.

2. Connect the camera to the PoE+ switch using an Ethernet cable or a CAT5e Ethernet cable of up to 300ft (91m) (not included). The PoE+ switch will provide power and video transmission the same way as your NVR.

Option B: Connecting the camera to your local network using a power adapter:

1. Connect the camera to a power adapter (not included).
2. Connect the camera to a router in the same network as your NVR using an Ethernet cable or an Ethernet cable of up to 300ft (91m) rated CAT5e or higher (not included).

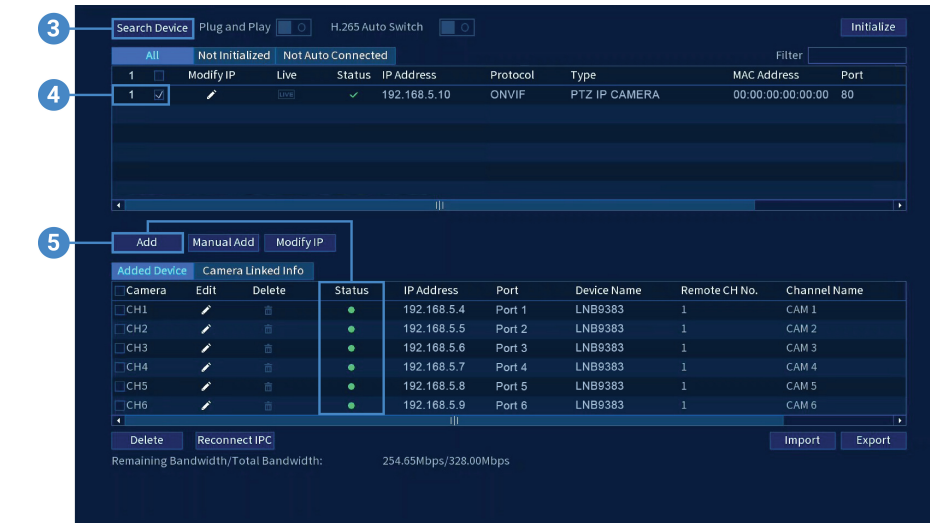
3.3 Step 2 — Adding the PTZ Camera to your NVR

The following instructions are based on the N884 Series NVRs. See your NVR’s instruction manual for instructions on controlling the PTZ camera with your system.

 **NOTE**

You must have at least one empty channel before attempting to add the camera to the NVR.

- 1. Right-click during live view and select **Add Camera**.
- 2. Log in using the admin account (default User Name: **admin**; default Password: **000000**).
- 3. Click **Search Device**. The system searches the network for compatible cameras.



- 4. Check the camera(s) you would like to add.
- 5. Click **Add**. The Status indicator turns green to show the camera is successfully connected.

 **NOTE**

You can also add a camera to a specific channel by hovering the mouse over an empty channel in split-screen view and clicking . Click **Device Search** and double-click the camera you would like to add. Right click to exit.

4.1 Installation Tips and Warnings

 **NOTE**

It is recommended to install the camera where there is some ambient light (for example, street lighting or starlight, moonlight, etc.) or leave some lighting on in the area where the camera is installed.

- Camera is rated for outdoor use. It is recommended to install the camera in a sheltered area, such as under the eaves on a roof.
- It is recommended to install the camera as high up as possible to get the best possible image.
- Mount the camera where the lens is away from direct and intense sunlight
- Plan your cable wiring so that it does not interfere with power lines or telephone lines.
- Ensure you adhere to local building codes.
- Ensure that the camera wiring is not exposed or easily cut.
- Mount the camera in an area that is visible but out of reach.

 **CAUTION**

Make sure to disconnect the power cable before installing the camera.

 **NOTE**

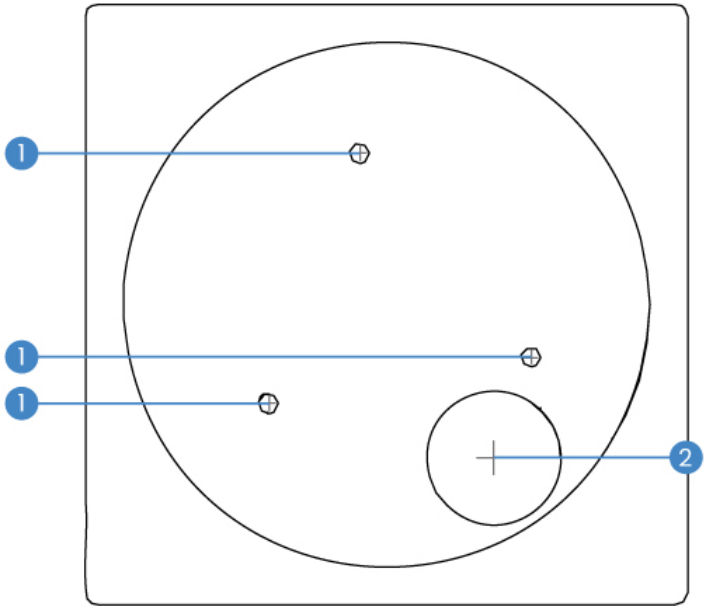
This camera is suitable for wall and ceiling mounting.

4.2 Wall and Ceiling Mounting (Indoor/Outdoor)

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 dome camera base. This will keep the dome camera base flush to the ceiling when mounted.

To wall / ceiling mount the camera:

1. Use the mounting template included with the camera mounting kit to mark holes for the mounting screws (x3) and the camera cable.



1. Mounting screw holes; 2. Camera cable hole (Optional)

-
2. Drill holes for the mounting screws, drywall anchors (optional) and camera cable (optional).

**NOTE**

- Use the included drywall anchors if installing on a drywall surface.
- If you are planning on running the cables along the mounting surface, there is no need to drill a hole for the camera cable.

3. Install the mounting plate with the provided drywall anchors (optional) and mounting screws.
4. Remove the locking screw from the camera base with a screwdriver and attach the camera to the mounting bracket by connecting the camera and the base and then turning the camera clockwise to secure. Finally, reinstall the locking screw.
5. Connect the camera cables (not included), see 3 *Connecting the PTZ Camera*, page 3.
6. Secure the weather-resistant cap by twisting it onto the camera's Ethernet connector. If exposed to rain, seal it with silicone or electrical tape.
7. Remove the vinyl film from the dome cover once installation is complete.

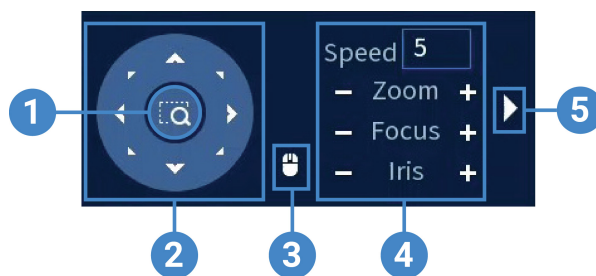
Controlling the PTZ Camera through the NVR

The following instructions are based on the N884 Series NVRs. See your NVR's instruction manual for instructions on controlling the PTZ camera with your system. For the latest list of compatible NVRs, please visit www.lorex.com/compatibility.

5.1 Controlling the PTZ Camera

1. In Live View, double-click the channel that has the PTZ camera connected to open in full-screen.
2. Right-click and click **Pan/Tilt/Zoom**. Enter the system user name and password if prompted. The PTZ menu opens.
3. Use the on-screen controls to control the camera.

PTZ Controls



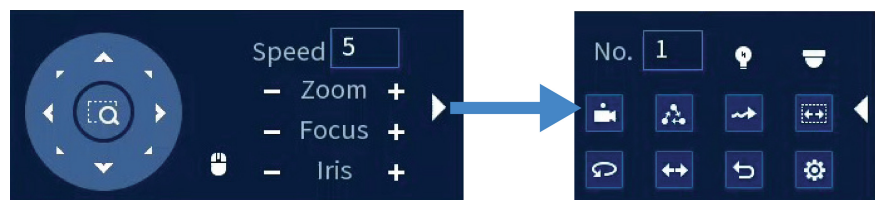
1. **Zoom-to-Area:** Click, then click-and-drag to draw a box on the camera image. The PTZ camera will zoom in to the selected area.
2. **Navigation Controls:** Click the directional arrows to move the PTZ camera manually.
3. **Mouse Tracking:** Click to enable/disable mouse tracking. When enabled, click-and-drag in the direction you would like the PTZ camera to move. The camera will follow the path of the mouse cursor.
4. **PTZ Settings:**
 - **Speed:** Enter a PTZ speed between **1** (slowest) and **8** (fastest).
 - **Zoom:** Optical zoom level. Click + to zoom in, and – to zoom out.
 - **Focus:** Manually control focus level. Click + to focus on objects further from the camera, or – to focus on objects closer to the camera.
 - **Iris:** Controls the amount of light coming through the lens. Click + to allow more light, or – for less.
5. **Advanced:** Expand to show advanced options. For a full overview, see 5.2 *Advanced PTZ Controls*, page 9.

5.2 Advanced PTZ Controls

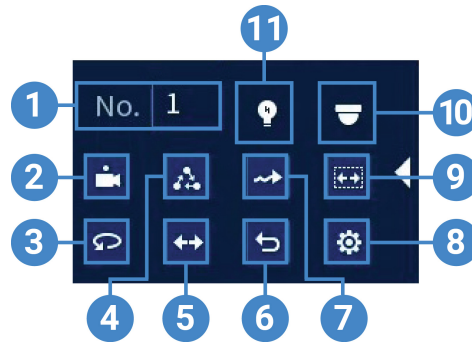
Advanced PTZ controls can be used to save camera positions and cycle through various positions, and automate camera actions.

To open advanced PTZ controls:

- Click the arrow in the PTZ control window to open advanced controls.



Advanced PTZ controls overview:



1. **No.:** Enter the ID number for a preset, tour, or pattern you want to activate.
2. **Preset:** Move the camera to the preset number specified in the **No.** field. For instructions on setting up preset locations, see 5.2.1 *Presets*, page 10.
3. **Pan:** Click to start pan. During pan, the camera will continuously pan 360°.
4. **Tour:** Perform the tour number specified in the **No.** field. For instructions on creating a tour, see 5.2.2 *Tours*, page 10.
5. **Flip:** Rotate the camera 180° from its current position.
6. **Reset:** Move the camera to the home position.
7. **Pattern:** Perform the pattern number specified in the **No.** field. For instructions on creating a pattern, see 5.2.3 *Patterns*, page 11.
8. **Configuration (Aux Config):** Click to open the configuration menu, where you can configure presets, tours, patterns and autoscans.
9. **Scan:** Move the camera between a predetermined left and right point. For instructions on creating an scan, see 5.2.4 *Scan*, page 11.
10. **Enter Menu (OSD):** Click to open the camera's OSD menu. This may not be supported on all camera models.
11. **Auxiliary Settings:** Click to configure auxiliary functions, allowing you to turn the camera Light or Wiper on or off.

5.2.1 Presets

Presets will save a camera position for quick retrieval.

To add preset locations:

1. From the Live View display of your PTZ camera, right-click to open the Quick Menu, then click **Pan/Tilt/Zoom**.
2. The PTZ controls open. Click  to open advanced PTZ controls, then click .
3. Click the **Preset** tab.
4. Enter the number of the preset you want to create under **Preset**.
5. Move the camera to the desired position and click **Setting**.

To go to a preset location:

- Under **No.**, select the number of the preset you want to go to, then click .

5.2.2 Tours

Tours will cycle through a set of presets.

To add tours:

1. From the Live View display of your PTZ camera, right-click to open the Quick Menu, then click **Pan/Tilt/Zoom**.
2. The PTZ controls open. Click  to open advanced PTZ controls, then click .
3. Click the **Tour** tab.
4. Under **Patrol No.**, enter the number of the tour you want to create.
5. Under **Preset**, select a preset you want to add to the tour.

6. Click **Add Preset**.
7. Repeat steps 5 & 6 to add additional presets to the tour.

To run a tour:

- Under **No.**, select the number of the tour you want to go to, then click .

5.2.3 Patterns

Patterns automatically move the camera according to manually-entered movements.

To add patterns:

1. From the Live View display of your PTZ camera, right-click to open the Quick Menu, then click **Pan/Tilt/Zoom**.
2. The PTZ controls open. Click  to open advanced PTZ controls, then click .
3. Click the **Pattern** tab.
4. Under **Pattern**, enter the number of the pattern you want to create.
5. Move the camera to the desired starting position, then click **Start**.
6. Using the on-screen controls, move the camera in any pattern you wish. When finished, click **End**.

To run a pattern:

- Under **No.**, select the number of the pattern you want to go to, then click .

5.2.4 Scan

An scan automatically cycles between a left and right point.

To configure scan:

1. From the Live View display of your PTZ camera, right-click to open the Quick Menu, then click **Pan/Tilt/Zoom**.
2. The PTZ controls open. Click  to open advanced PTZ controls, then click .
3. Click the **Scan** tab.
4. Move the camera into the desired left position and click **Left Limit**.
5. Move the camera into the desired right position and click **Right Limit**.

To run scan:

- Click .

Smart Motion Plus is available for this PTZ camera when connected to N884 NVR systems. By distinguishing between different types of movements, this feature reduces false alarms when remotely viewing from the app.

To use Smart Motion Plus, enable it in your NVR events settings. Then, draw specific areas of interest and adjust the schedule to tailor the monitoring to your security needs.

6.1 Configuring Smart Motion Plus

This section will guide you through the steps to configure Smart Motion Plus for optimal motion detection and monitoring.



NOTE

For the Smart Motion Plus feature to function correctly on your PTZ camera, ensure the Smart Plan is properly enabled. Please enable the **Smart Motion Plus** feature before continuing. Refer to 6.3 *Enable Smart Motion Plus in Smart Plan*, page 16 for full instructions.

To configure smart motion plus:

1. From the Live View display, right-click to open the Quick Menu, then click **Main Menu**.
2. Click **EVENTS**. Click the **Event Settings** tab from the side panel, then the **Smart Motion Plus** tab from the drop-down.



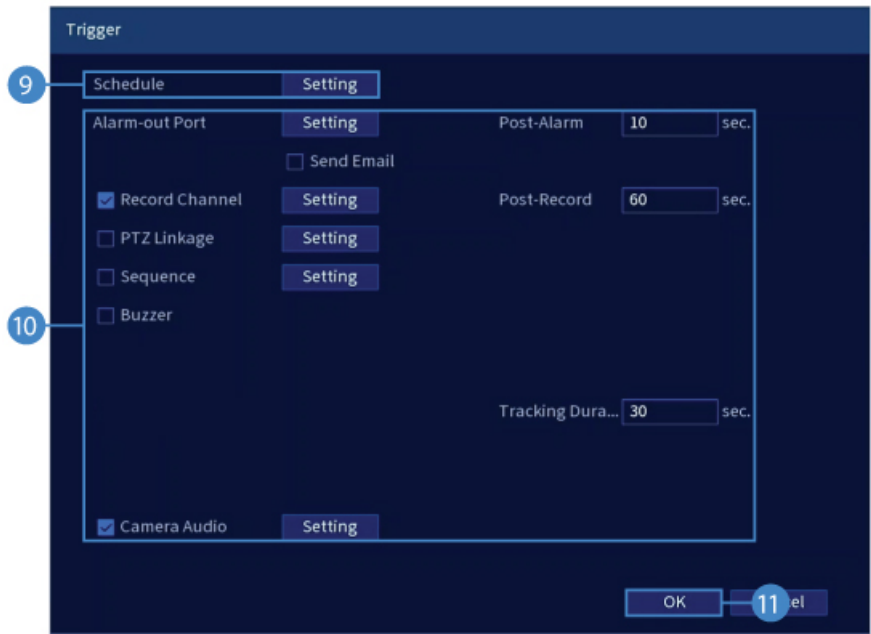
3. Select the channel number to which the PTZ camera is connected.
4. Check to enable the smart motion plus setting.
5. Displays rule name (change in draw settings).
6. Choose between the different types of Smart Motion Plus:
 - **Tripwire:** This feature sets off an alarm when a specified line is crossed by a target in a particular direction.
 - **Smart Motion:** Detects and alerts when a person or vehicle enter or move within a specified area.
 - **Parking Detection:** Monitors and identifies available parking spaces in outdoor environments.
 - **Crowd Gathering Destination:** Triggers an alarm if people congregate in a specified zone for a longer period than allowed, helping manage crowd control.
 - **Loitering Detection:** Alerts security when a person or object stays in a designated area for an extended period.

7. Click the **Draw** icon  to customize the active area for Smart Motion Plus.

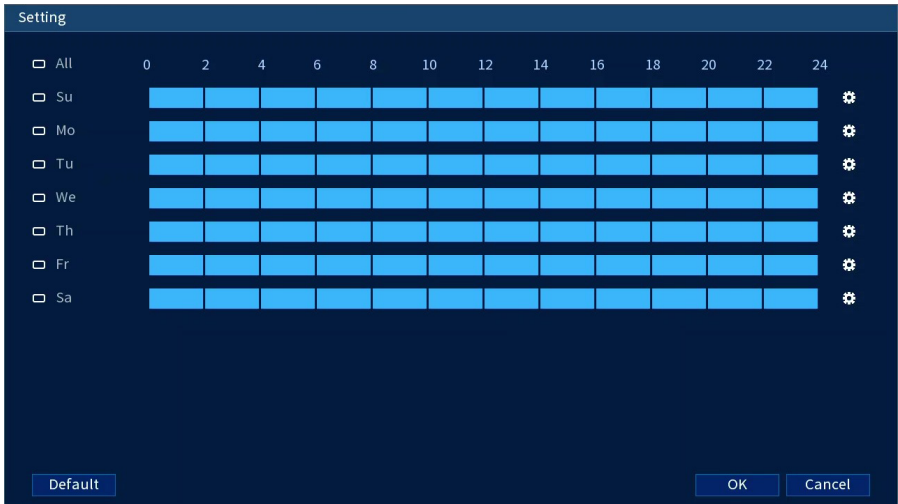


- **Preset:** Link to a preset. Refer to the instructions 5.2.1 *Presets*, page 10 for setting a preset.
- **Name:** Click to change rule name.
- **Draw Rule:** To draw, click and drag the corners of the box to resize the area. For the most accurate results: Click the delete icon  to remove the current box. Click to draw the new monitoring area, making sure it covers where objects of interest will move within and in/out of the bounding box. Right-click to close the bounding box.
- **Action:** Check **Appear** to detect if an object of interest appears in the defined area. Check **Cross** to detect if an object of interest enters or exits the defined area. Check both to enable each type of action.
- **Direction:** Determine which direction triggers an alarm: Select **Enter** for movement entering the defined area. Select **Leave** for movement exiting the defined area. Select **Both** for both types of movements.
- **Target:** (Only available for Tripwire and Smart Motion) Enable the **Target Filter**. Check the detection targets you wish to use, or check both.
- Click **OK** when finished.

8. Click the **Trigger** icon  to adjust how the system will react to smart motion plus.



9. Click **Setting** next to **Schedule** to choose which days and times of the week to enable smart motion plus:



- Click or click-and-drag along each of the blue timelines to quickly add or remove time from each day’s schedule in 30-minute segments.
- Click  beside 2 or more days to link schedules (). This allows you to quickly change multiple schedules at once.
- To make fine adjustments to a schedule, click . This will allow you to set exact start and end times for a schedule.

10. Choose how the system will react to smart motion plus:

- **Send Email:** Check this box to enable email alerts. Ensure you configure email alerts first to receive them (refer to your recorder's manual for detailed instructions).
- **Record Channel:** Select the channels that will record when motion is detected on the selected channel. Set the length of recording following a video loss event in the **Post-Record** field.
- **PTZ Linkage:** Set connected PTZ cameras to start a tour, pattern, or go to a preset location.
- **Sequence:** Sequence mode will begin. Select the numbered tiles next to this option to include the corresponding channels in the sequence.
- **Buzzer:** Check to enable the system buzzer.
- **Camera Audio:** Check this box to enable an alarm when motion is detected within the defined area. Click **Setting** to choose between different alarms and set the number of repetitions for the **Play Time**.

11. Click **OK**, click **OK** again.

12. Click **Apply** to save changes.

13. Click **Add** to create additional active areas for smart motion plus on the selected channel.

14. To delete a smart motion plus setting, click the **Delete** icon  for that setting.

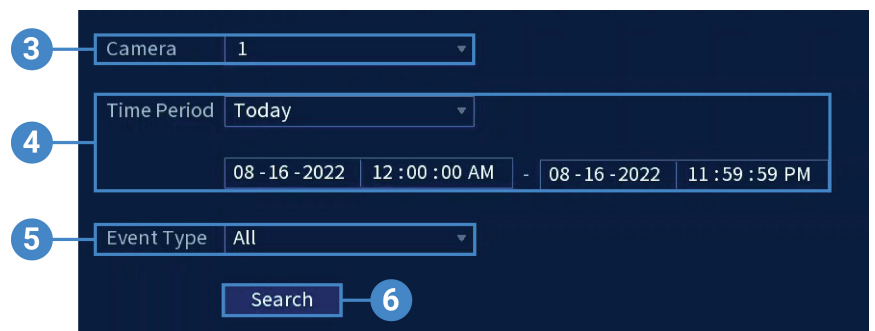
6.2 Searching for Smart Motion Plus

Smart Search lets you filter recorded video to search for person detection events, vehicle detection events, animal detection events or all three.

	NOTE
In order to use Smart Search, you must configure at least one channel's smart detection settings. See the procedure above for full instructions.	

To perform a Smart Search:

1. From the Live View display, right-click to open the Quick Menu, then click **Smart Search**.
2. Click the **Smart Motion Plus** tab from the side panel.

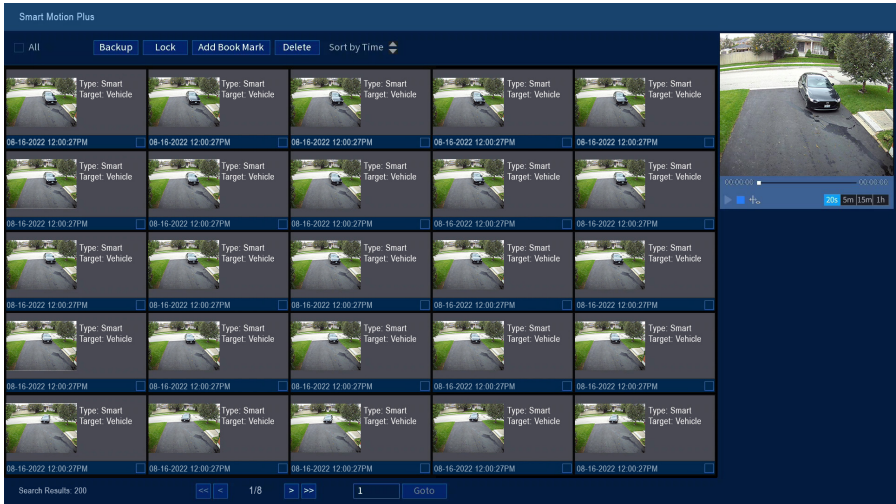


The screenshot shows the Smart Search interface with the following elements:

- 3:** Camera dropdown menu showing '1'.
- 4:** Time Period dropdown menu showing 'Today', with a date range selector below it showing '08-16-2022 12:00:00 AM' to '08-16-2022 11:59:59 PM'.
- 5:** Event Type dropdown menu showing 'All'.
- 6:** Search button.

3. Select a camera to search for detection events from, or select **All**.
4. Enter period for your search, then the start and end time.
5. Select the type of smart motion detection for your search, or select **All**.

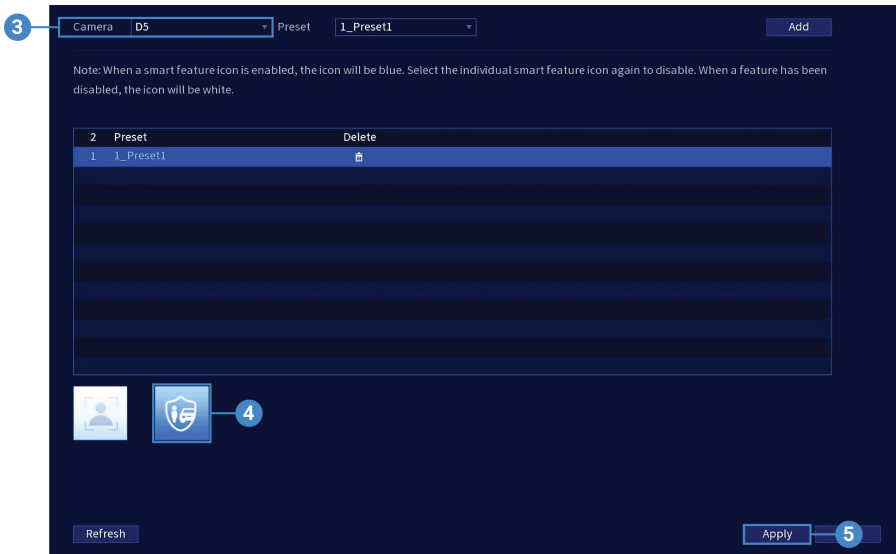
6. Click **Search**.



7. Events that match your search criteria are displayed. You now have the following options:
- Click a thumbnail to preview the event. Double-click the preview window to view in full screen.
 - Check thumbnails to perform other actions:
 - **Backup:** Back up events.
 - **Lock:** Lock events.
 - **Add Book Mark:** Bookmark events.
 - **Delete:** Delete events.

6.3 Enable Smart Motion Plus in Smart Plan

1. From the Live View display, right-click to open the Quick Menu, then click **Main Menu**.
2. Click **EVENTS**. Click the **Event Settings** tab from the side panel, then the **Smart Plan** tab from the drop-down.



3. Under **Camera**, select your connected IP PTZ camera.

-
4. Select the **Smart Motion Plus** feature.

 **NOTE**

When a smart feature icon is enabled, the icon appears blue. Click the blue smart feature icon again to disable it. When a feature is disabled, the icon appears white.

5. Click **Apply** to save changes.

Inserting the microSD Card (Optional) and Resetting the Camera

The camera features a hard reset button that is used to reset all camera settings back to the default values. This is useful in case you want to revert camera image settings back to the default values.

To reset the camera:

1. Connect the camera as detailed in 3 *Connecting the PTZ Camera*, page 3. Make sure the camera is powered on.
2. Use a screwdriver to loosen the screw and remove the camera from the mounting plate.
3. Loosen the service panel screws (x4), but do not remove them. Remove the service panel cover.
4. The service panel allows you to perform the following:
 - Insert a microSD card into the microSD card slot. For local recording, you can install a microSD card up to 128GB. SanDisk™ or Kingston™ brand microSD cards are recommended. To insert a microSD card, push the metal cover in the direction labeled OPEN and place your microSD card. microSD card Class 10 or higher required.
 - Press and hold the reset button for 10 seconds to reset the camera to default settings



1. Reset Button; 2. microSD Card Slot



NOTE

It may take few minutes for the camera image to reappear on the screen.

There is no picture at night.

- Camera is capable of seeing in extremely low light conditions, but it cannot see in total darkness. It is recommended to install the camera where there is some ambient light (e.g. street lighting, starlight, moonlight, etc.) or leave a light on in the area where the camera is installed.

No image at startup.

- The camera may take up to 1 minute to power up after being connected to the NVR. Wait 2 minutes before following steps below.
- Check to ensure your camera is properly connected (see 3 *Connecting the PTZ Camera*, page 3).
- Ensure the camera is connected to a router on the same network as the NVR.
- If the camera is connected to the LAN, you must search your network for cameras using the NVR. See your NVR's instruction manual for details.
- Make sure that the cable run is within the limitations specified in 9.1 *Video Transmission*, page 20. All Ethernet cables must be rated CAT5e or higher.
- If using the power adapter (not included), connect the power adapter to a different outlet.
- Ethernet cable may be damaged or not connected properly. Check your cable run or try a different cable.
- Reset the camera to factory default settings. See 7 *Inserting the microSD Card (Optional) and Resetting the Camera*, page 18 for details.

No image or camera image is unclear.

- Dome cover is dirty. Clean the dome cover with a soft, slightly damp cloth. Do not use anything other than water to clean the dome cover, as chemicals such as acetone can permanently damage the plastic.

Image is distorted.

- Digital zoom is activated. Activating digital zoom may reduce the resolution of the camera image. Zoom out completely to return to the camera's optimal resolution. See 5.1 *Controlling the PTZ Camera* for instructions on using the zoom controls.
- Image may become unclear when camera is tilted too close to the camera base (e.g. pointed parallel to the ceiling). Tilt the camera using NVR PTZ controls.

Image is too bright.

- Ensure your camera isn't pointed directly at a source of light (e.g. sun or spot light).
- Check your NVR's brightness and contrast settings.
- Move your camera to a different location.

Image is too dark.

- Check your NVR's brightness and contrast settings.
- Move your camera to a different location.

NVR motion detection is constantly triggering.

- Turn off motion detection on the channel the PTZ camera is connected to. NVRs use video motion detection, which means they detect motion by looking for changes between frames (images) in the video. If the camera is moving, the NVR will detect this as motion.

9.1 Video Transmission

Technology	IP
Resolution/Frame Rate	4MP (2560 × 1440) @ 1-25/30fps
Effective Pixels	H: 2560 × V: 1440
Ultra WDR (Wide Dynamic Range)	Yes
Video Format	NTSC/PAL
Video Compression	H.264H, H.264B, Smart H.265+, H.264, H.265, MJPEG (Sub Stream), Smart H.264+
Termination	RJ45 10/100Mbps Ethernet

9.2 Optical

Image Sensor Type	4MP, 1/2.8" CMOS
Horizontal Field of View	96.9° to 31.6°
Lens/Lens Type	2.8 mm–12 mm, F1.8–F2.7 / Motorized Varifocal
Optical Zoom	4×
Digital Zoom	Yes 1

9.3 Pan/Tilt Capabilities

Range	Pan: 0° to 355° endless, Tilt: 5° to 90°
Maximum Manual Speed	Pan: 0.1°–70°/s Tilt: 0.1°–30°/s
Maximum Preset Speed	Pan: 0.1°–80°/s Tilt: 0.1°–40°/s
Presets	300
Tours	8, with a maximum of 32 presets per tour

9.4 Special Features

AI Detection	Yes (Person, Vehicle)
Privacy Masking	Supports up to 24 areas

9.5 Night Vision

IR Night Vision Range	65.62 ft / 20 m
Color Night Vision	Yes

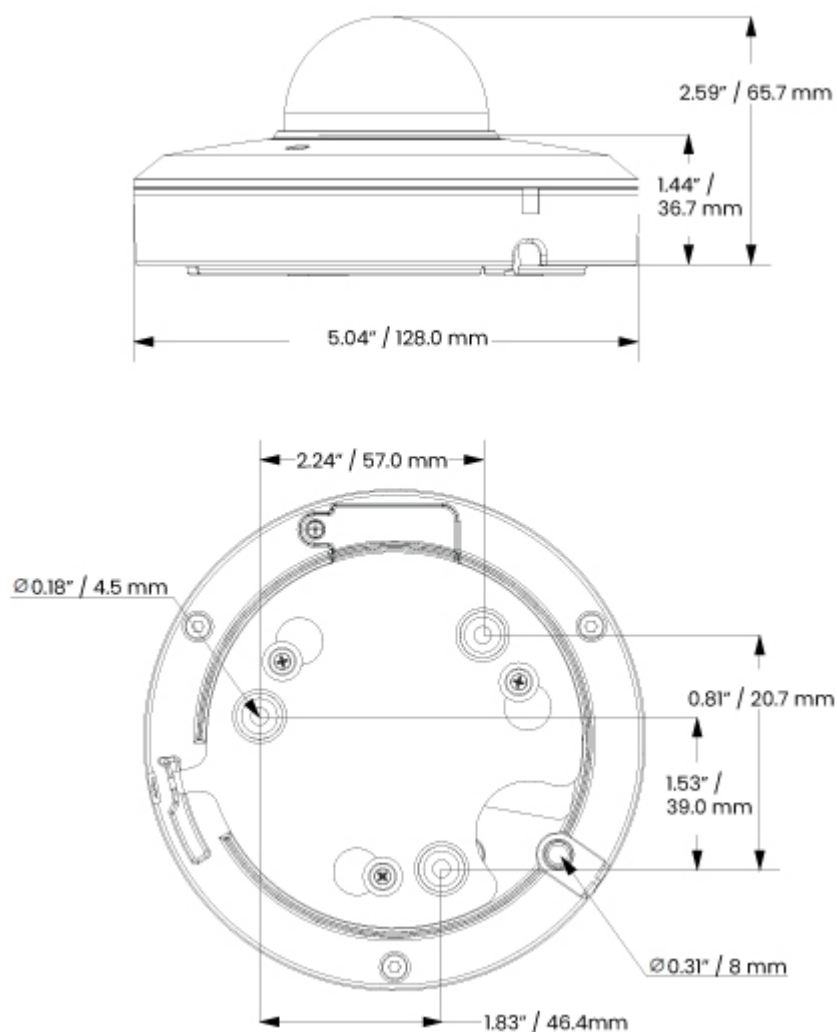
9.6 General

Body Material	Aluminum Alloy
Power Requirements	PoE+ (802.3at), 12V DC / 2A ± 10%
Maximum Power Consumption	13W
Storage	MicroSD card (up to 512GB), FTP/SFTP, NAS
Operating Temperature	-22°F to 140°F / -30°C to 60°C
Operating Humidity	<95% RH
Environmental Rating	IP66 (Indoor/Outdoor) 4
Net Weight (Camera only)	1.10 lbs / 0.5 kg

Gross Weight (Camera and accessories)	1.54 lbs / 0.7 kg
Audio Input/Output	Input: 1 channel (LINE IN, bare wire) Output: 1 channel (LINE OUT, bare wire)

9.7 Dimensions

Camera (Dia. × H)	Ø 5.04" × 2.59" / 128.0 mm × 65.7 mm
Camera Dome (Dia.)	Ø 2.3" / 58.0 mm
Wall Mount Screw Hole Spacing (W × H)	1.83" × 1.53" / 46.4 mm × 39.0 mm
Camera Cable Entry Hole (Dia.)	Ø 0.31" / 8 mm



9.8 Disclaimers

1. Digital zoom is a function controlled by the connected NVR. For a list of compatible NVRs, visit www.lorex.com/compatibility.
2. Full-color nighttime video will switch to black & white IR night vision below 1 lux to maintain optimal low-light image quality.

-
3. The stated IR night vision range is based on ideal conditions with typical outdoor nighttime ambient lighting and total darkness. Actual range and image clarity depend on installation location, viewing area, and the light reflection or absorption levels of objects. In low light, the camera will switch to black and white.
 4. Not intended for submersion in water. Installation in a sheltered location is recommended.
 5. For the online instruction manual on how to install and use this camera, visit www.help.lorex.com/LNZ43P4A-series.
 6. Compatible with select Lorex NVRs. For the most up-to-date list of compatible recorders, visit www.lorex.com/compatibility.
 7. A Cat5e cable is required to connect to a compatible NVR (not included).

This product has been certified and found to comply with the limits regulated by FCC, EMC, and LVD. Therefore, it is designated to provide reasonable protection against interference and will not cause interference with other appliance usage. However, it is imperative that the user follows the guidelines in this manual to avoid improper usage, which may result in damage to the product, electrical shock and fire hazard injury.

10.1 FCC/IC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment on and off), the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio or television technician for assistance.

10.2 Modification

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Toute modification non approuvée explicitement par le fournisseur de licence de l'appareil peut entraîner l'annulation du droit de l'utilisateur à utiliser l'appareil.

10.3 ROHS

This product is fully compliant with the European Union Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment ("RoHS") Directive (2002/95/EC). The RoHS directive prohibits the sale of electronic equipment containing certain hazardous substances such as lead, cadmium, mercury, and hexavalent chromium, PBB, and PBDE in the European Union.



Website

www.lorextechnology.com

Copyright

© 2024, Lorex Corporation

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of Lorex Corporation and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

Legal disclaimer

As our product is subject to continuous improvement, Lorex Corporation & subsidiaries reserve the right to modify product design, specifications & prices without notice and without incurring any obligation.E&OE.

Publ. No.:
Release: 2.0
Commit: 61507
Head: 61507
Language: en-US
Modified: 2024-10-16
Formatted: 2024-10-16