VAIDIO®

VAIDIO CORE 9.0.0

CORE FUNCTIONS USER GUIDE

OVERVIEW

Vaidio Core offers **Search**, **Alert,** and **Statistics** for all videos and camera streams.

❏ **Search:** Search for objects (e.g., Person, Truck, Wild Animal) in all selected footage and live streams.

❏ **Alerts:** Set rules, triggers, and receive real-time alerts on any device.

❏ **Statistics:** Generate business insights from large-scale video data over time.

TABLE OF CONTENTS

VAIDIO®

SEARCH

- ❏ [Overview](#)
- ❏ [Dashboard](#)
- ❏ [Search Filters: Source and Time](#)
- ❏ [Search Filters: Object Types](#)
- ❏ [Search Filters: Camera ROI](#)
- ❏ [Detail Screen](#)

OVERVIEW

Search in **Vaidio Core**:

- ❏ Available with ALL analytic engines.
- ❏ Begins object detection once a video source (e.g., camera, file) is connected (see Vaidio Core Setup Guide for information on configuring camera(s) and managing object detection profile(s)).
- ❏ Stores metadata for users to search detected objects.
- ❏ Auto-enabled when cameras are activated (see Object Detection User Guide for more information).

DASHBOARD

Search: First screen displayed upon user login.

All search functions and filters are found at the top of the **Search** dashboard.

SEARCH FILTERS: SOURCE AND TIME

Set Time Period for Search:

- ❏ Ensure the file's **upload date/time** falls within the selected range.
- ❏ Verify the correct **time zone** is set in **System** > **Time** and syncs with the **camera/NVR** (if connected).

Click the **camera icon** to upload an image from local drive and search for **detected objects**.

Note

Works best with **one** to **two** clear objects (e.g., a person in red).

- ❏ Select the **Camera icon** to select/deselect cameras on which to perform **Search**
- ❏ Select the **File icon** to perform **Search** on uploaded files
  - ❏ Default: Search through all cameras (live streams)

Click on a **thumbnail** to view the **Detail screen** of the detected event.
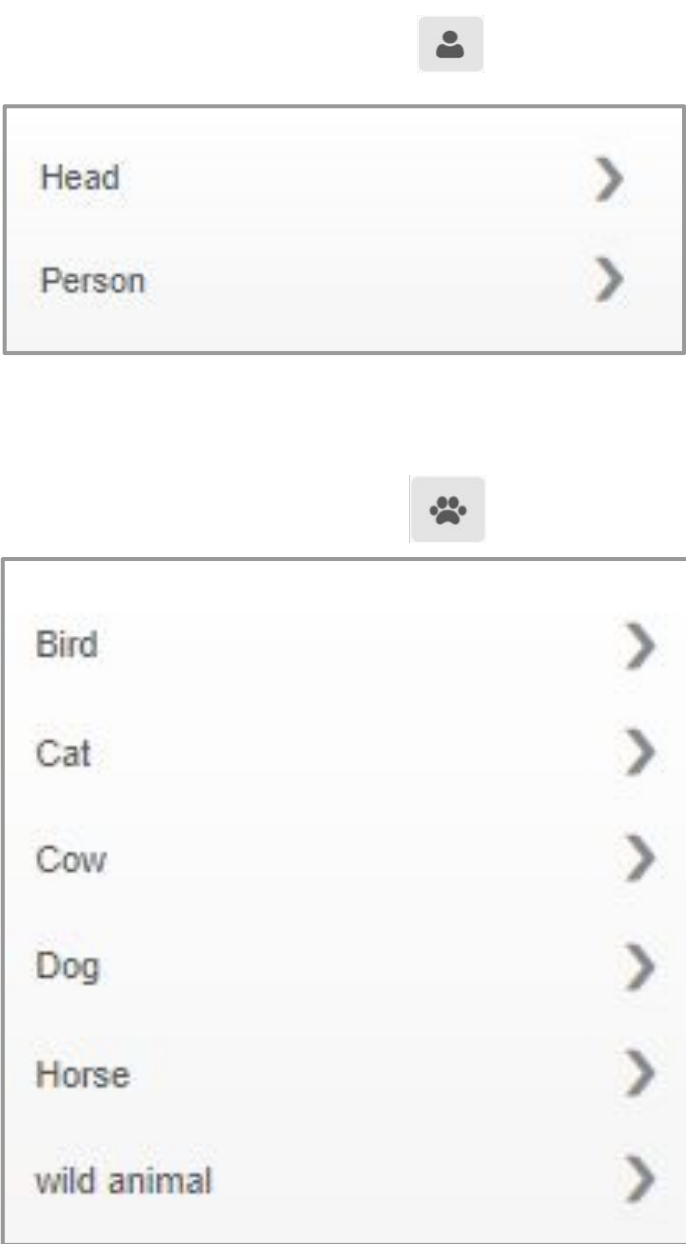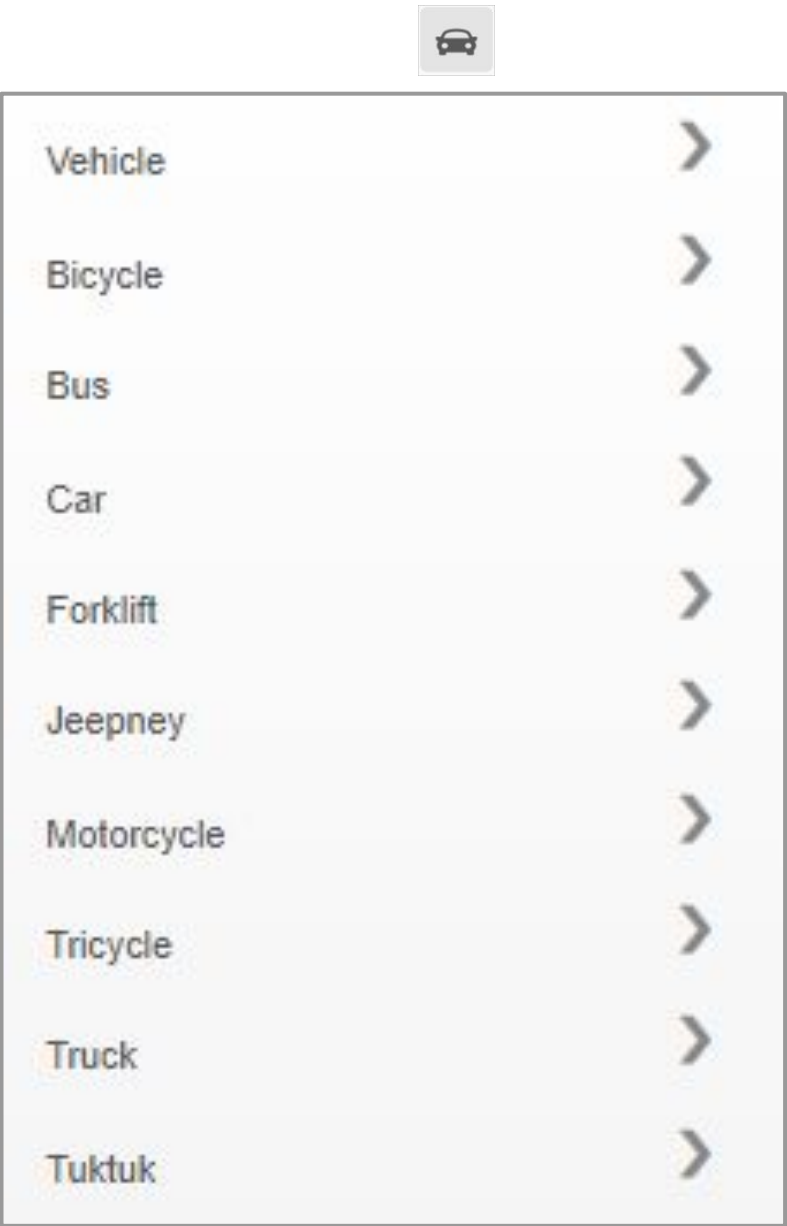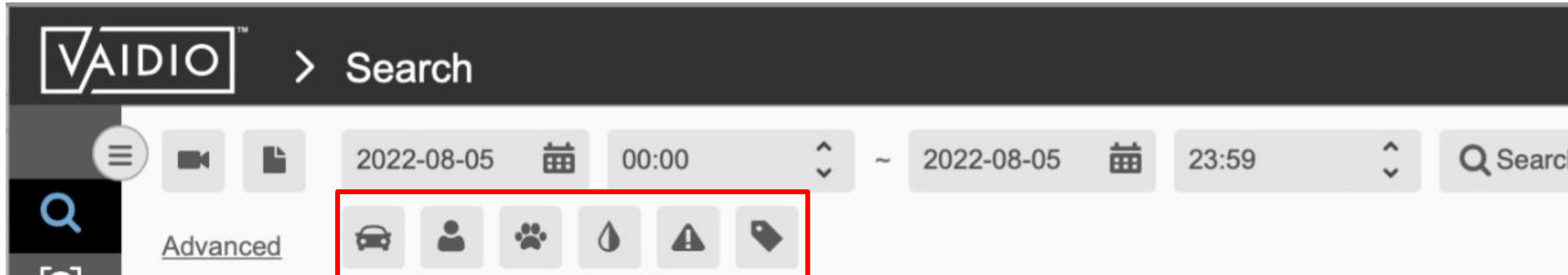
SEARCH FILTERS: OBJECT TYPE

Click **category icons** to search **Object Types** & **attributes**: **Vehicle**, **People**, **Animal**, **Object**, **Dangerous Object**.

Available **object types** depend on the **AI Model(s)**. Below are those in the **default PowerModel**.

Vehicle
- Vehicle
- Bicycle
- Bus
- Car
- Forklift
- Jeepney
- Motorcycle
- Tricycle
- Truck
- Tuktuk

Person
- Head
- Person

Animal
- Bird
- Cat
- Cow
- Dog
- Horse
- wild animal

Object
- Backpack
- Bag
- Cell_phone
- Luggage
- Major Scene Change
- Minor Scene Change
- Stroller
- Umbrella
- Wheelchair

Dangerous Object
- Fire
- Handgun
- Knife
- Rifle
- Smoke
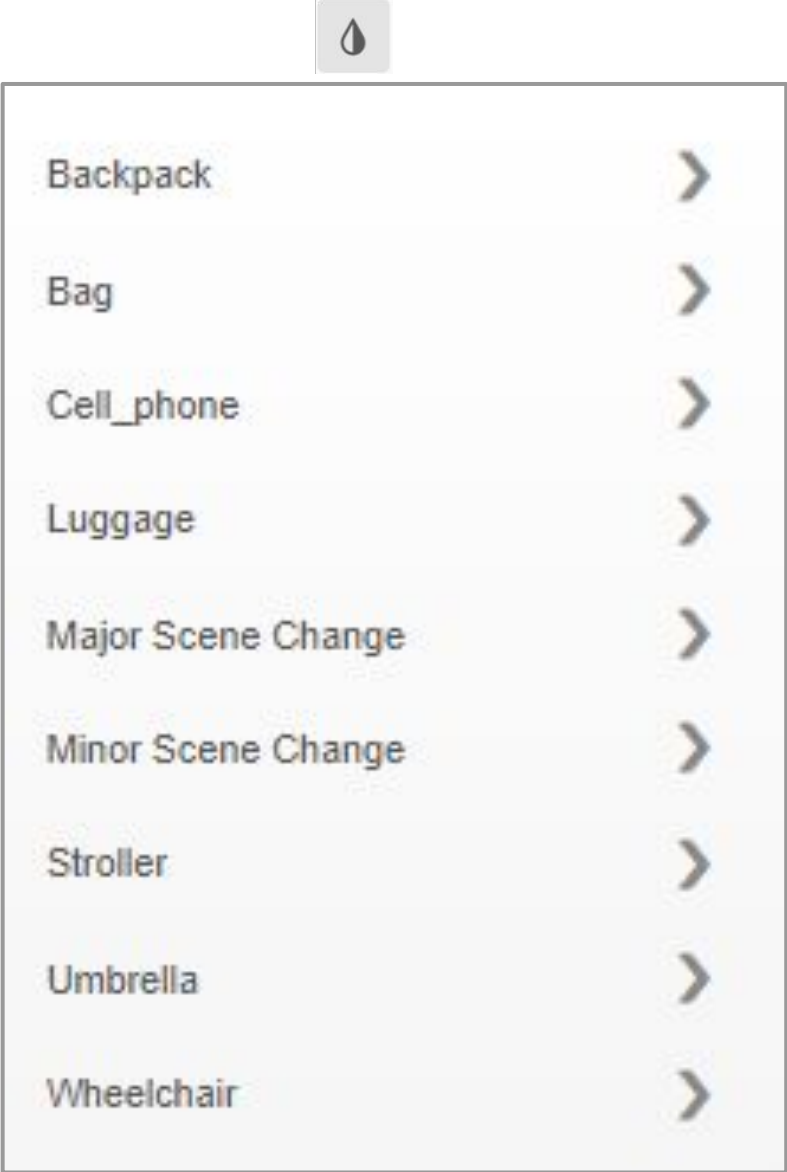
For more information on uploading additional AI Models, see the Core Setup User Guide.
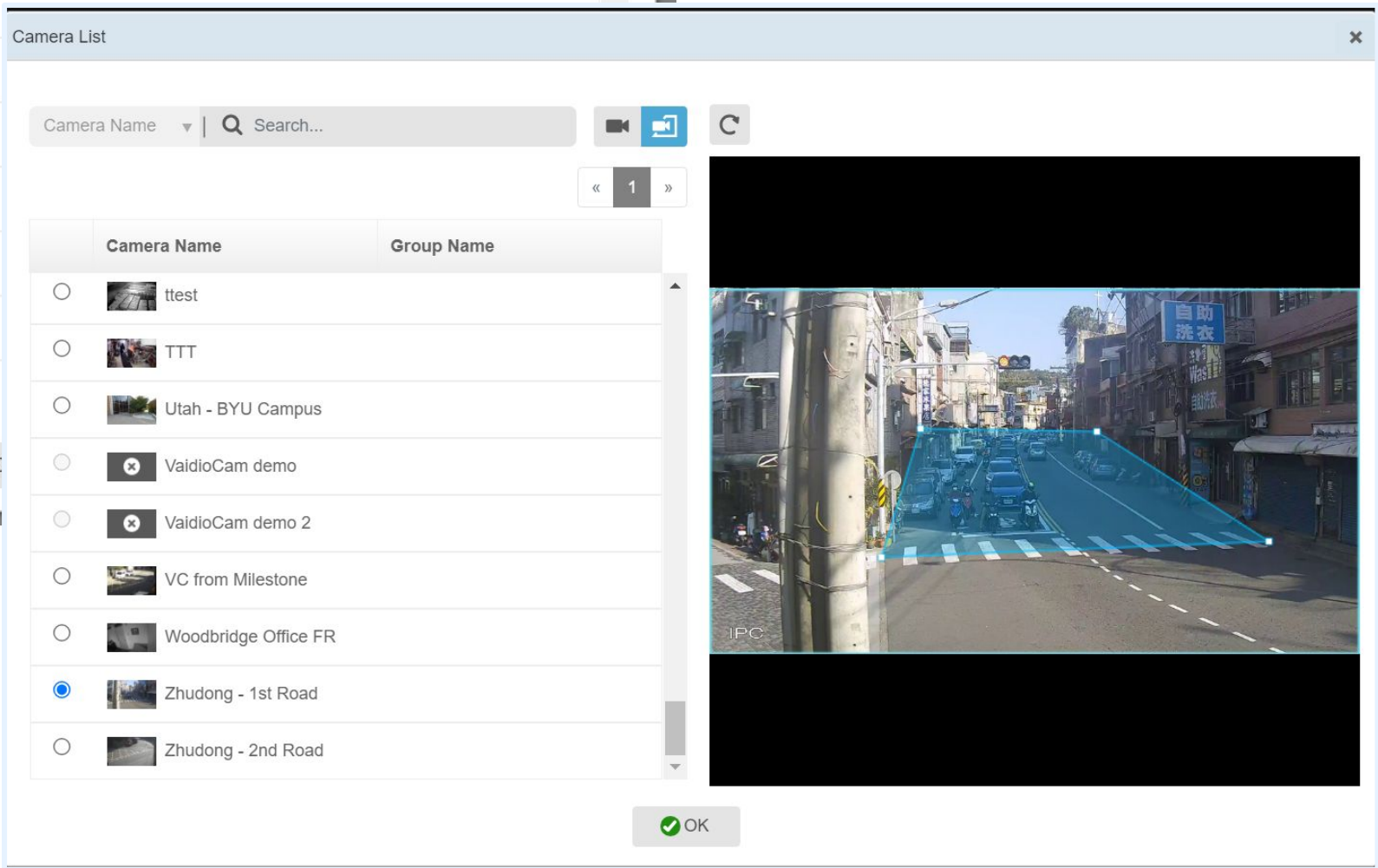
SEARCH FILTERS: CAMERA ROI
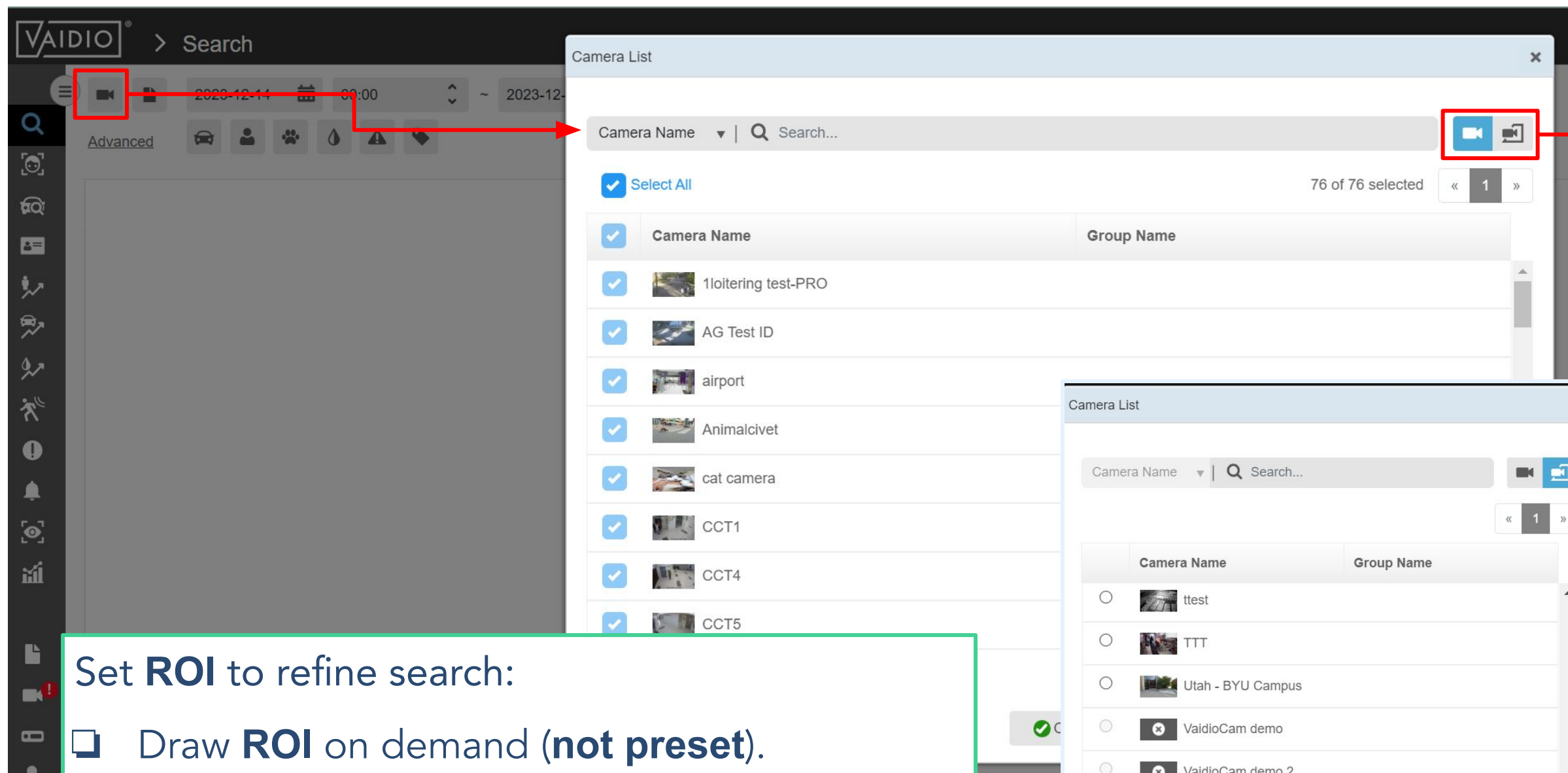
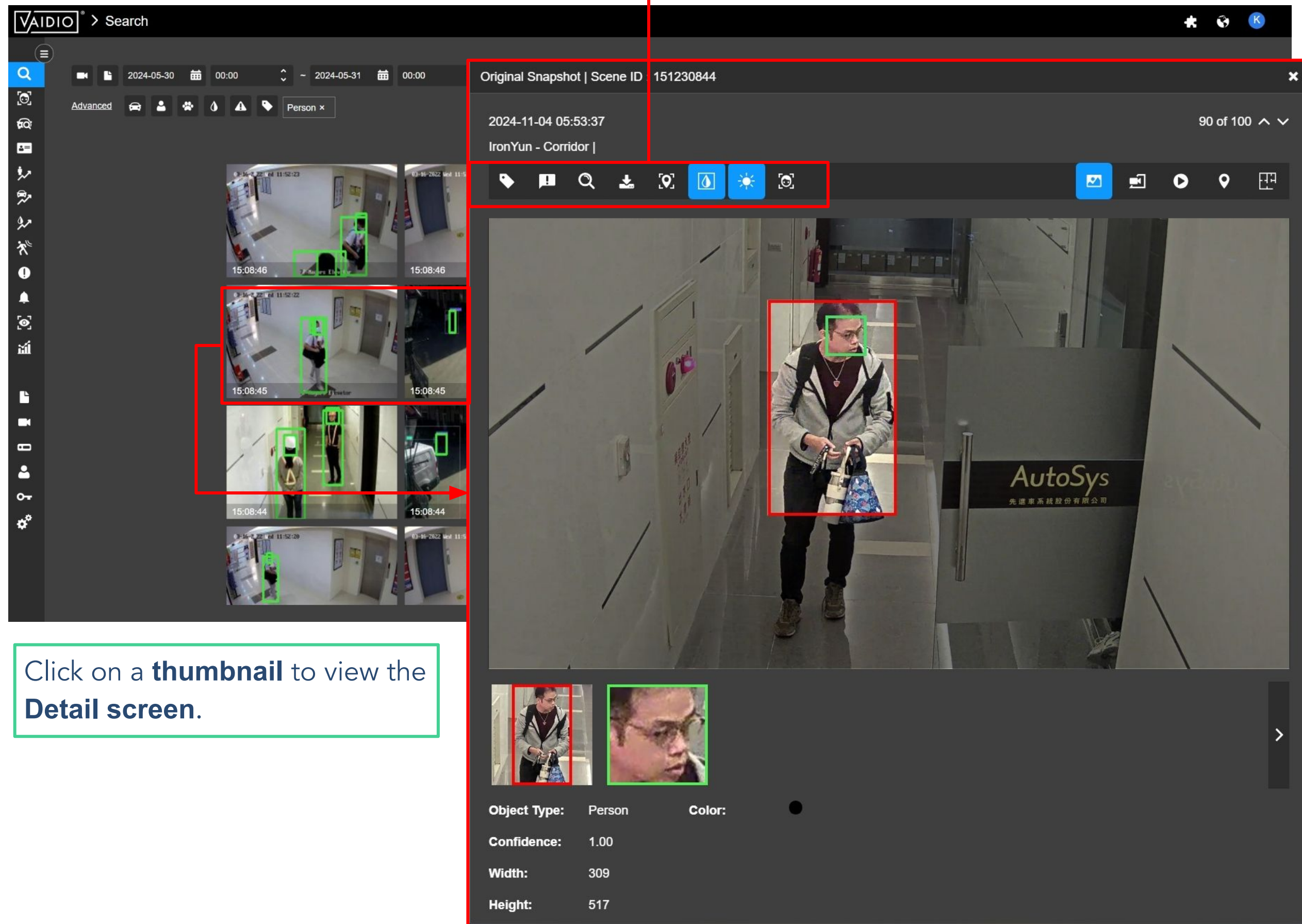**Wide Range (multi-camera):** Regular search to get more results

Precise (single-camera): Define an ROI in the camera FOV to get fewer but more precise results

Set **ROI** to refine search:

❏ Draw **ROI** on demand (**not preset**).

❏ Toggle **Wide Range** or **Precise mode** in the **Camera List** (top right).

DETAIL SCREEN

Click on a **thumbnail** to view the **Detail screen**.

Icons:

Add hashtag to search for the detected event in the future; e.g., #caraccident

False Detection Report if connected to internet (see Report False Detection for more information)

Enlarge an area in the image

Download the image

Show Cross Camera Tracking

Show the bounding box of the detected objects

Show spotlight mode (focus on object of search)

Conduct Face Search for an individual

Blur/unblur faces/people in the image

Return to Search

DETAIL SCREEN (CONT.)
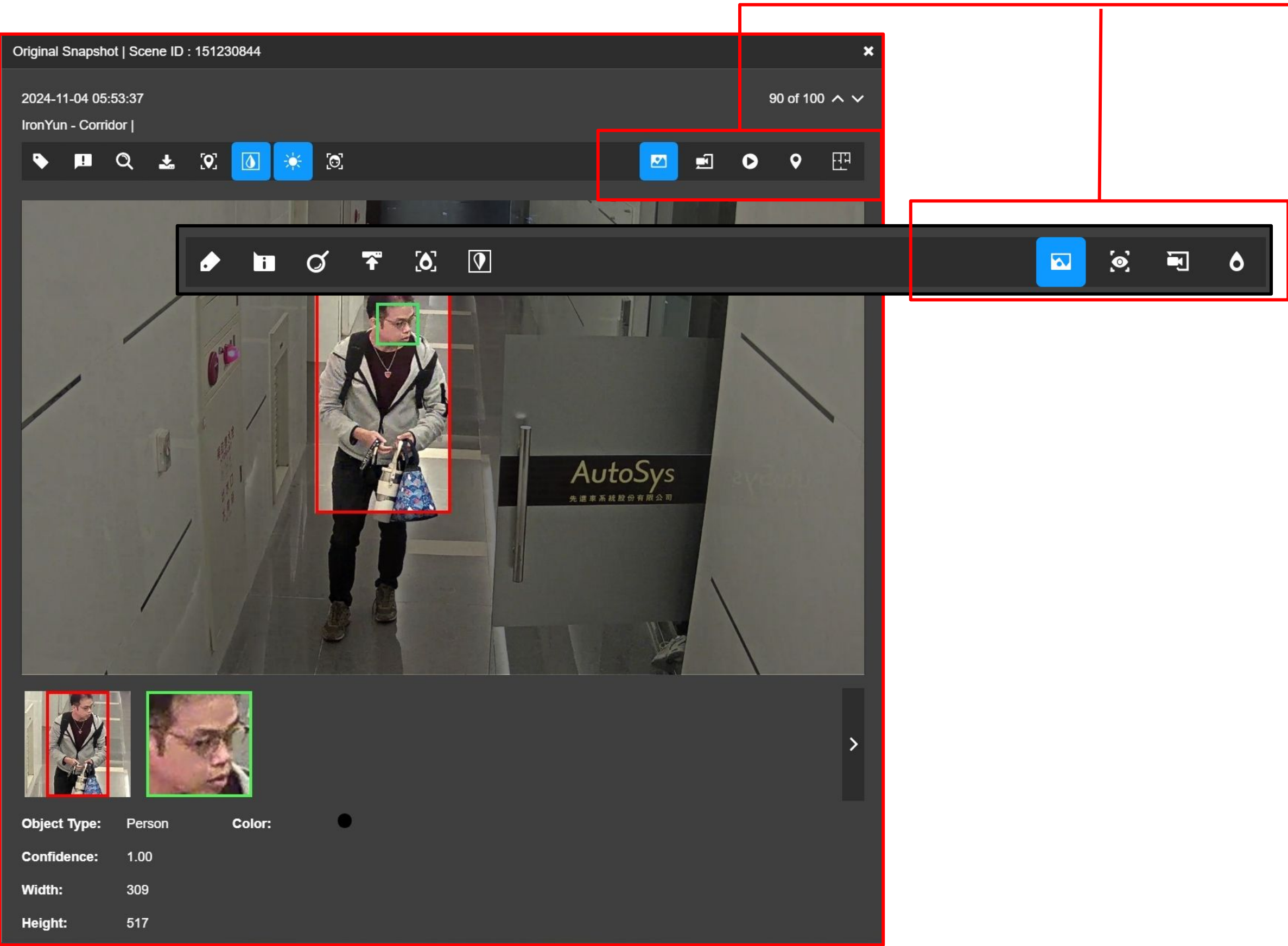
Icons:

Show image of the detected event (default)

Draw an ROI to limit searches to a specific area of the camera FoV

Show video playback if NVR has been added to the camera

Show camera location on GPS map

Show camera location on indoor map

Show camera Live View

Full Screen View

Return to Search

SMART TAG

Add a **Smart Tag** to the **detected events** (results) to **bookmark** a **specific situation**.

❏ **Smart Tag(s)** can be added to all **analytic results**, including **object search**, **intrusion**, **face recognition**, **abnormal event**, etc.
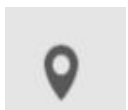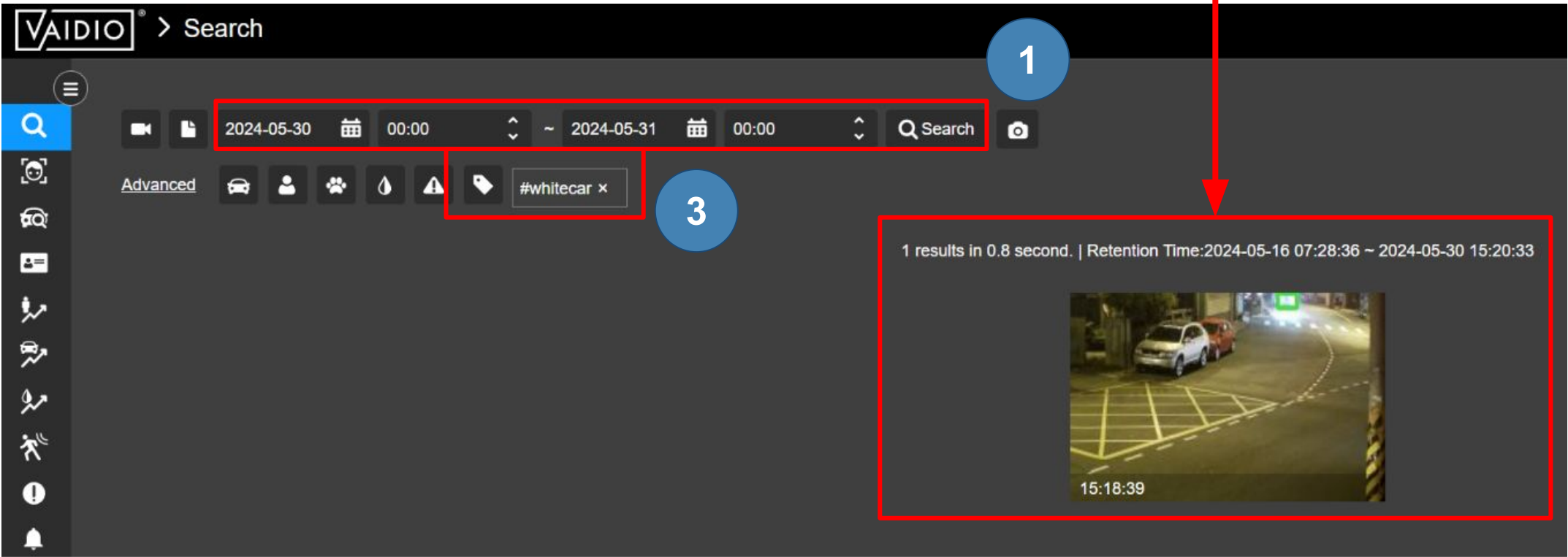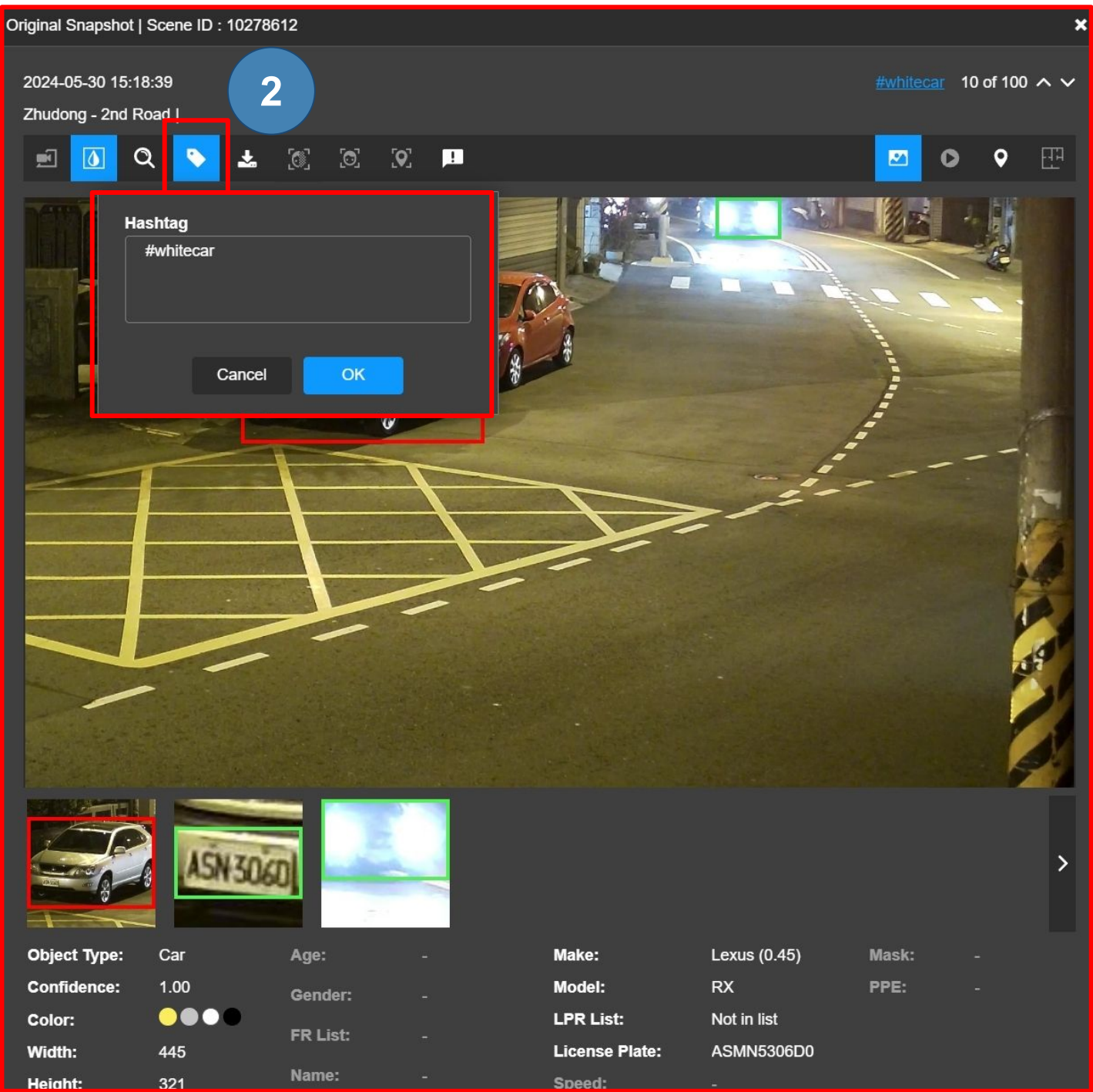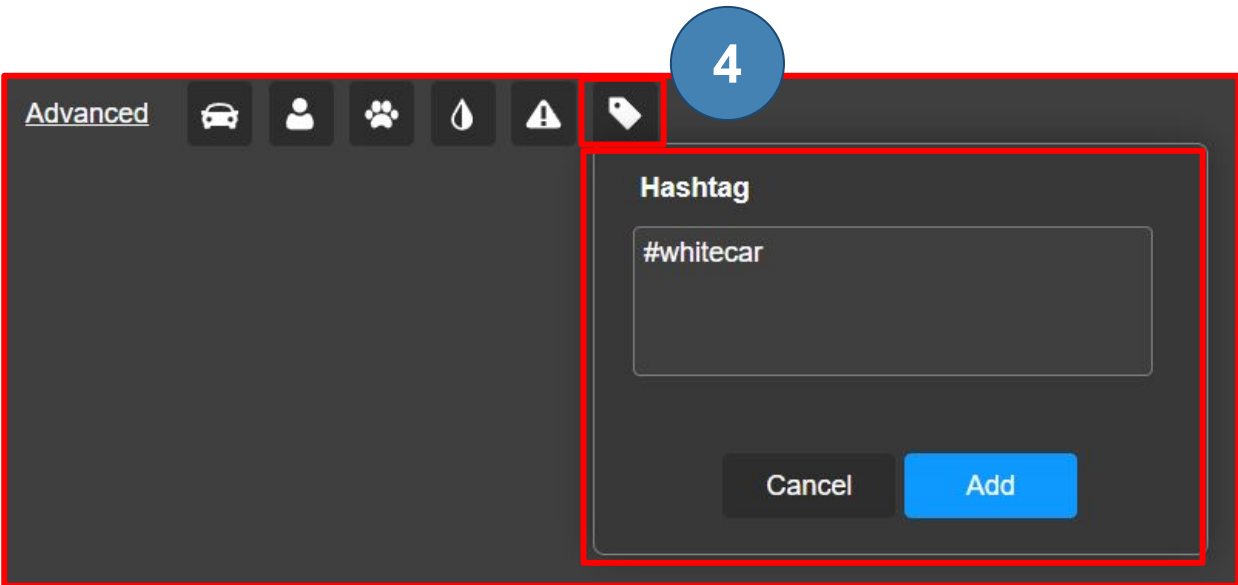

1. **Search Dashboard** > search for an **event** > select the **event thumbnail** to access its **Detail screen**.

2. Select **Hashtag** and enter a **name** for the **Smart Tag** (e.g., #whitecar) to **bookmark** the **specified event**.

3. From the **Search Dashboard**, select **Hashtag** > **Add** the **Smart Tag name**.

4. Click **Search** to return ONLY **results with the same tag** (e.g., #whitecar).

Return to Search

ALERTS

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OVERVIEW

Vaidio Core enables **multiple real-time alerts** via **Alert Rules**.

❑ View **live alerts** from the **Alerts Dashboard** and search **past alerts** in **History**.

❑ Create **Alert Rules** for ANY **configured AI Engine** (see Vaidio Core Setup Guide and applicable AI Engines guides for configuration instructions).

❑ Send **alerts** via **email**, **HTTP/HTTPS**, **Vaidio Mobile App**, or **3rd-party VMS/NVR**.

❑ Enable **AI Engines** before adding alerts.

❑ Update **alerts** if adding **new analytics** or **cameras**.

ALERT TYPES

Create alerts for the following analytics (in alphabetical order):
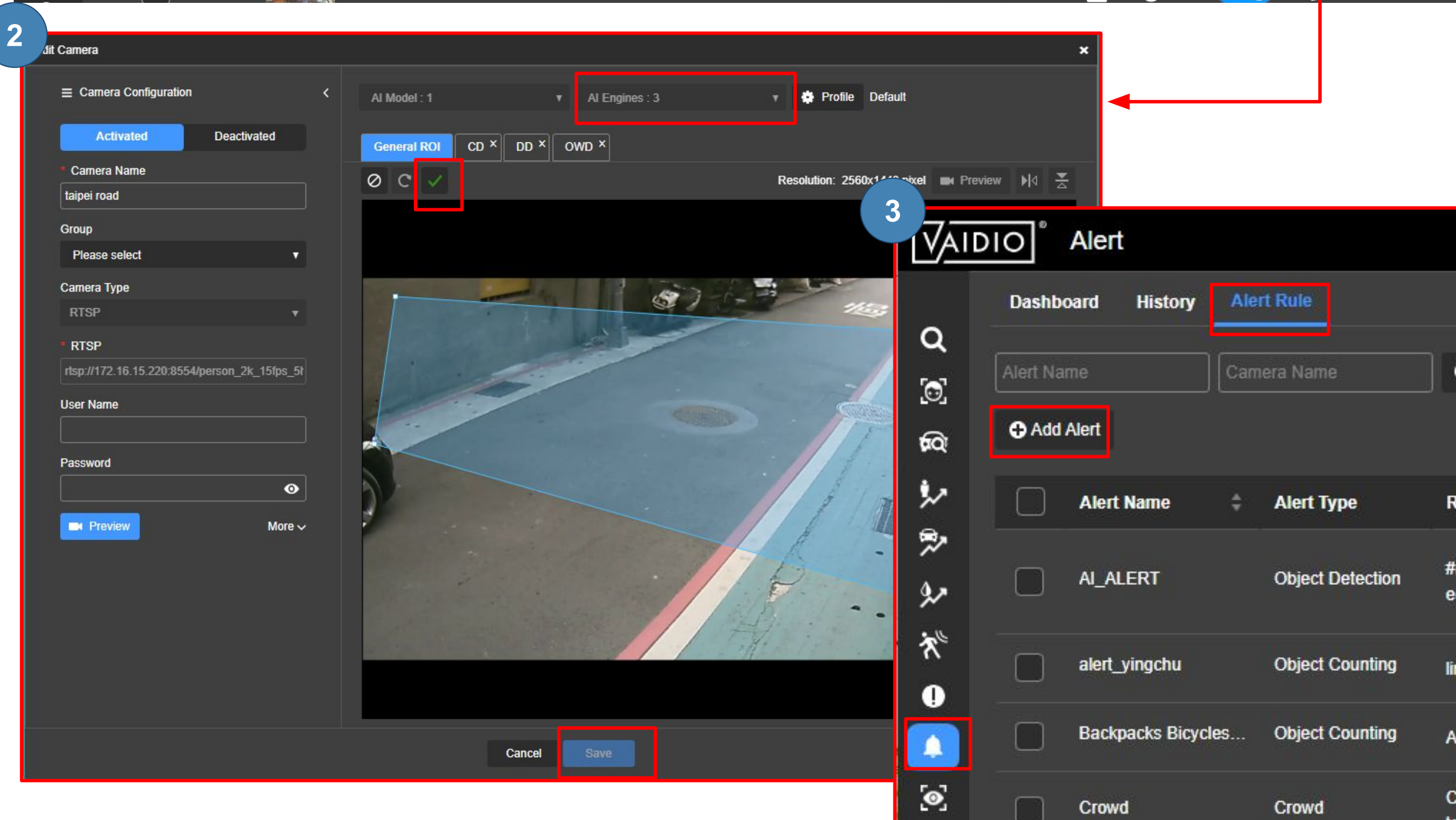
1. **Camera Abnormal:** Disconnected, Blurry/Blocked/Repositioned; Camera Resolution Change

2. **Crowd Detection:** Tracks large crowds (>30 people) in a camera field of view (FoV)

3. **Dwell:** Sub-engine of Object Tracking (OT) - counts how long a user-specified object type stays in the ROI and creates an event alert when a specified object type stays in the ROI for more/less than a user-defined time length

4. **Face Recognition:** Tracks when a person's face is in an existing list and/or not in any list (unidentified person)

5. **Intrusion Detection**

6. **License Plate Recognition:** Tracks when a vehicle license plate is in an existing list and/or not in any list (unidentified vehicle)

7. **Object Counting (OC):** Sub-engine of OT - applies when the number of a specified object type exceeds or is less than a specified value

8. **Object Detection (OD):** Detects all object types and attributes (e.g., color, quantity, etc.)
   a. OD ROI is the General ROI
   b. Set alerts for objects with/without others (e.g., forklift without person). See the Object Detection User Guide for details

9. **Object Left Behind (OLB):** Detects unattended objects in a defined area for a set time (1–3,600 seconds)

10. **Object Wrong Direction (OWD):** Sub-engine of OT - triggers an alert when an object moves in a user-defined direction, which may be incorrect or restricted

11. **Person Fall:** Tracks when a person lies down, crouches, squats, kneels, or is in other abnormal positions on the floor for more than 10 seconds

12. **Scene Change:** Applies to an anomaly in the field of view

ADD NEW ALERT
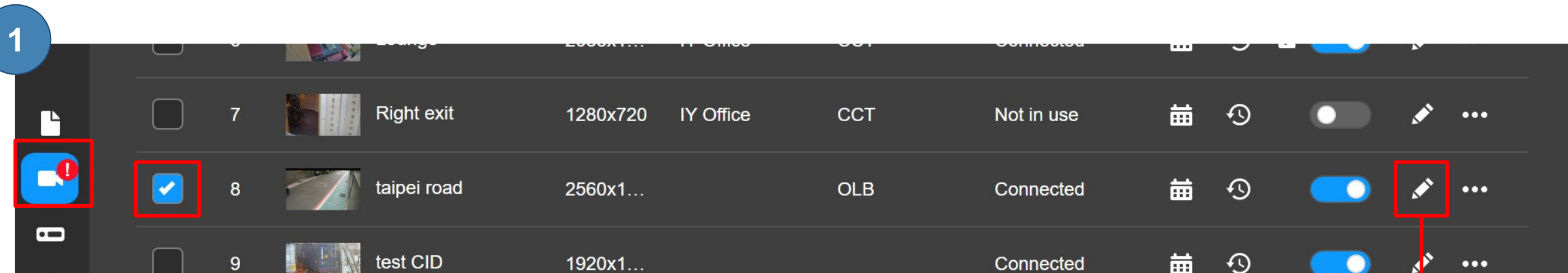
1. **Camera** > **Edit** to configure camera(s) for **Alerts**.
2. From the **AI Engine** drop-down menu of the **Edit Camera** screen, select/deselect **AI Engines** and draw an **ROI(s).** Select the **checkmark** to complete ROI(s), then click **Save**.
3. From the sidebar navigation, select **Alert** > **Alert Rule** > Add Alert.

Return to Alerts

16

ADD NEW ALERT (CONT.)

4. Enter an **Alert Name**.
5. Select Alert Type from the drop-down and define rules for **object types** and **scenarios.** Include:
   - ❏ **Camera Abnormal Type** for Camera Abnormal
   - ❏ **List** for FR/LPR
   - ❏ **ROIs** for ID, OLB, etc.
   - ❏ **Line Sets** for OT
6. Select **camera(s)** and **ROI(s)**.
7. Optionally, Schedule alerts or set an optional **Cooldown Interval** (0 - 3,600 seconds).
   - ❏ A **Cooldown Interval** is the time between alerts.
8. Configure optional **Alert Triggers** to push the alert to an external device (e.g., Video Management System, mobile phone, etc.). See Copy Existing Alert Trigger Actions for information on copying **existing Trigger configurations** to newly created **Alerts**.
9. Click **Save** to enable the alert.

ALERT SCHEDULING

1. Click **Schedule** to display a weekly Schedule.

2. Select **one or more days**, or click **Select ALL**.

3. Alternatively, select days from the **Add Time** drop-down menu.

4. Set a **timeframe** or check the **All Day** box to configure alerts to run all day.

5. **OK** > **OK** to enable scheduled alerts.

Note

Alert Scheduling is **optional**.

Return to Alerts

COPY EXISTING ALERT TRIGGER ACTION

To reuse a configured alert trigger (e.g., email or HTTP trigger) for a new alert:

1. **Add Alert** > **Trigger (Optional)** > **Open Existing Trigger**.

2. Select a trigger by **Last Modified** date, **Alert Name**, or **Trigger Type**.

3. Click the **arrow** associated with the listed trigger for details.

4. Click **Apply** to assign the trigger.

ALERT DASHBOARD

Alert Dashboard:

Displays alerts received in real-time.

1. **Alerts** > **Dashboard**.

2. From the **Select Alerts** screen, filter by **Alert Name** or **Type**, select an **Alert Name(s),** then click **OK** to display filtered events.

3. Select a **View** from the drop-down to display on the left-hand side of the screen (e.g., **Grid**, **Floor Plan**, **Live**, or **Map View**).

4. Select a **thumbnail** to view a Detail Screen screen that provides additional information on the event alert.
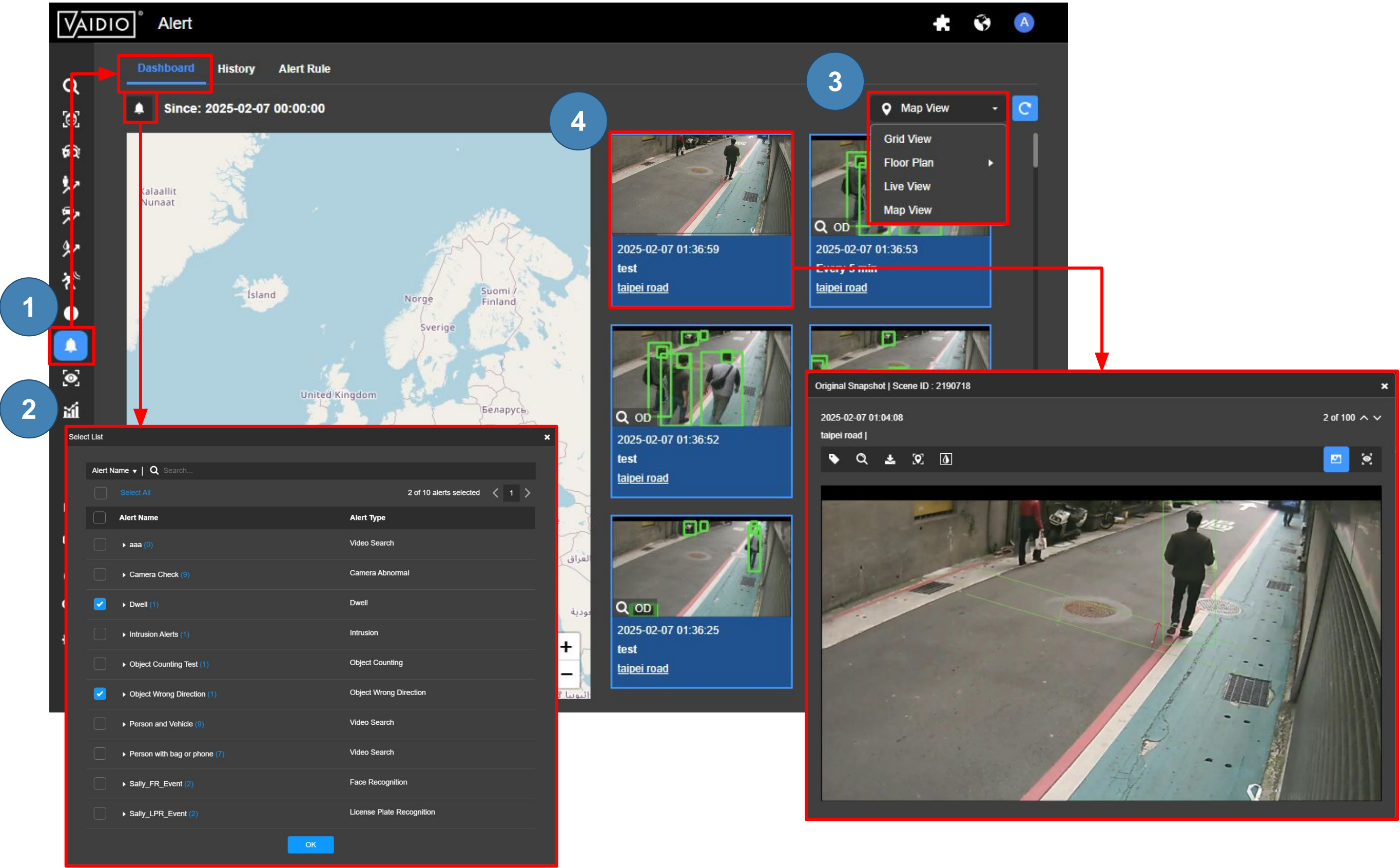
Alert Display Modes (Default: **Map View**):

❏ Grid View: Snapshot alerts, no map
❏ Floor Plan: Alerts on an indoor map (See Vaidio Core Setup Guide for map setup)
❏ Live View: Live feed of the selected camera

Return to Alerts

ALERT HISTORY

Alert History:

❑ **Displays** historical alerts.

❑ Users can filter by **date/time**, **Alert Name**, or **Type**, view details via selecting **thumbnails,** and export selected alerts to **.xlsx format**.

Note

See Alert Dashboard and Detail Screen for more information.

ALERT ACKNOWLEDGEMENT

Enable Alert Acknowledgement:

System > **Setting** > scroll down to **Advanced** > Toggle on **Alert acknowledgement** to view **Unclaimed**, **Claimed**, and **Cleared Alerts** from the **Alerts Dashboard/History tabs**.

Select a **thumbnail** > **Detail screen** drop-down menu to change the **Alert acknowledgment** status.

Return to Alerts

ALERT ACKNOWLEDGEMENT (CONT.)

1. From **Dashboard** or **History**, click **Select Alerts** to filter snapshots by one or more **Alert Rules**, then click **OK**.

2. Select **Unclaimed**, **Claimed**, or **Cleared** to filter snapshots by **Alert Acknowledgement** status:
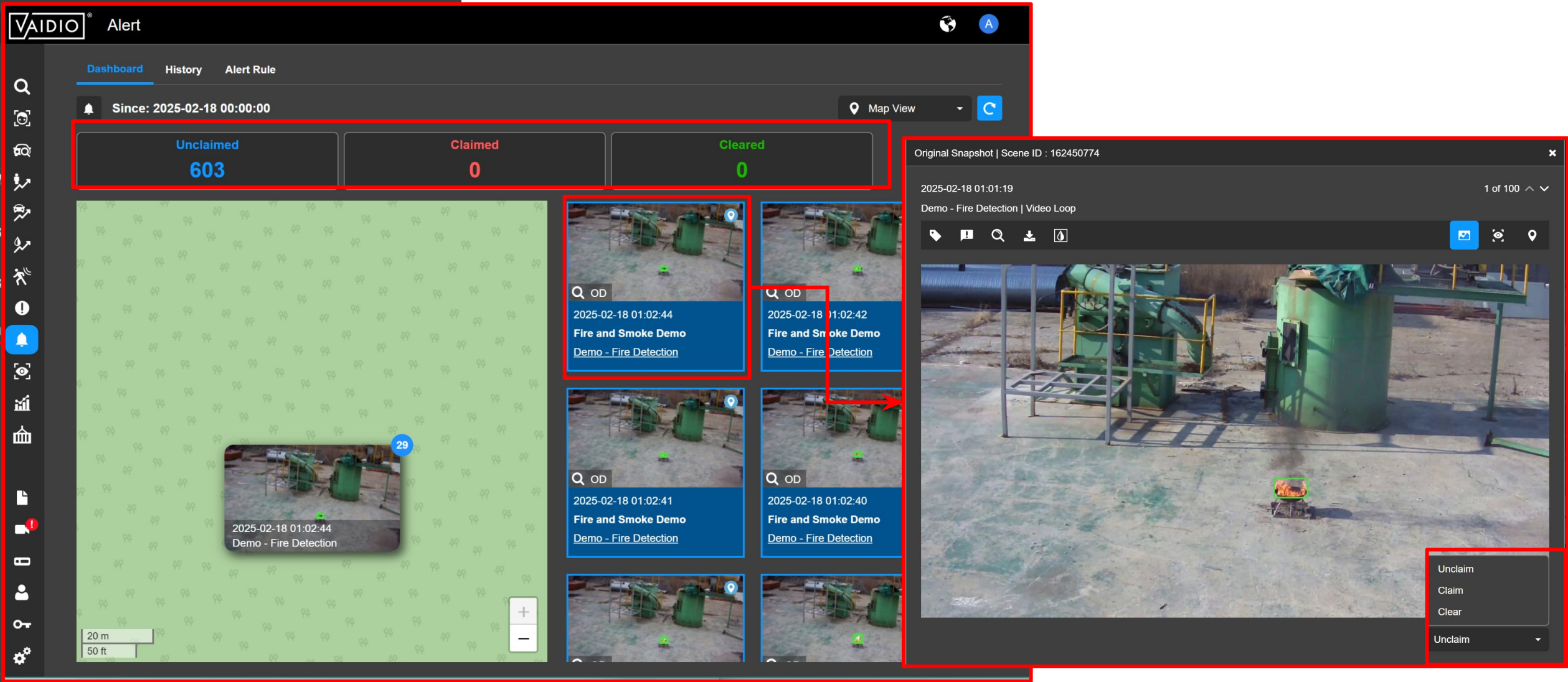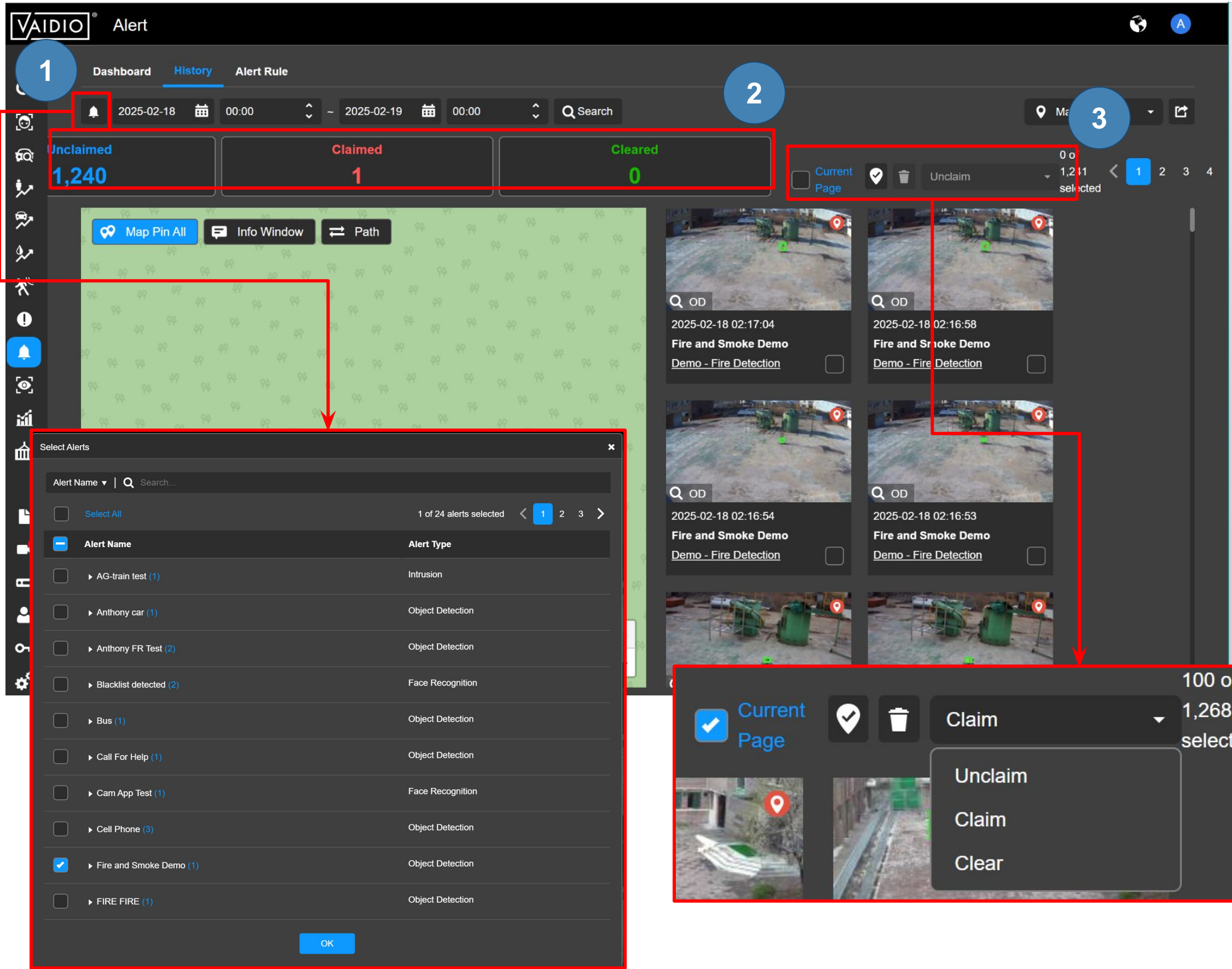
   a. **Unclaimed:** Alerts that are unread

   b. **Claimed:** The user has acknowledged the alert and is aware of the situation

   c. **Cleared:** Necessary actions have been taken to resolve the alert

3. Check the **Current Page** box, then select an **Alert Acknowledgment** category to apply to ALL alerts on the current page. Deselect individual snapshots if needed.

STATISTICS

- ❏ [Overview](#)
- ❏ [Heatmap](#)
- ❏ [Demographics - Age & Gender](#)
- ❏ [Demographics - Chart Types](#)

OVERVIEW

Video Core supports **heatmaps** and **statistics** for detection results.

❑ Heatmap: Visualizes object data from an AI model on one video source for up to **24 hours** (hourly or aggregate).

❑ Demographics: **Age & Gender** stats require a separate license (available with or without **Face Recognition AI**).

HEATMAP

Heatmap Function:

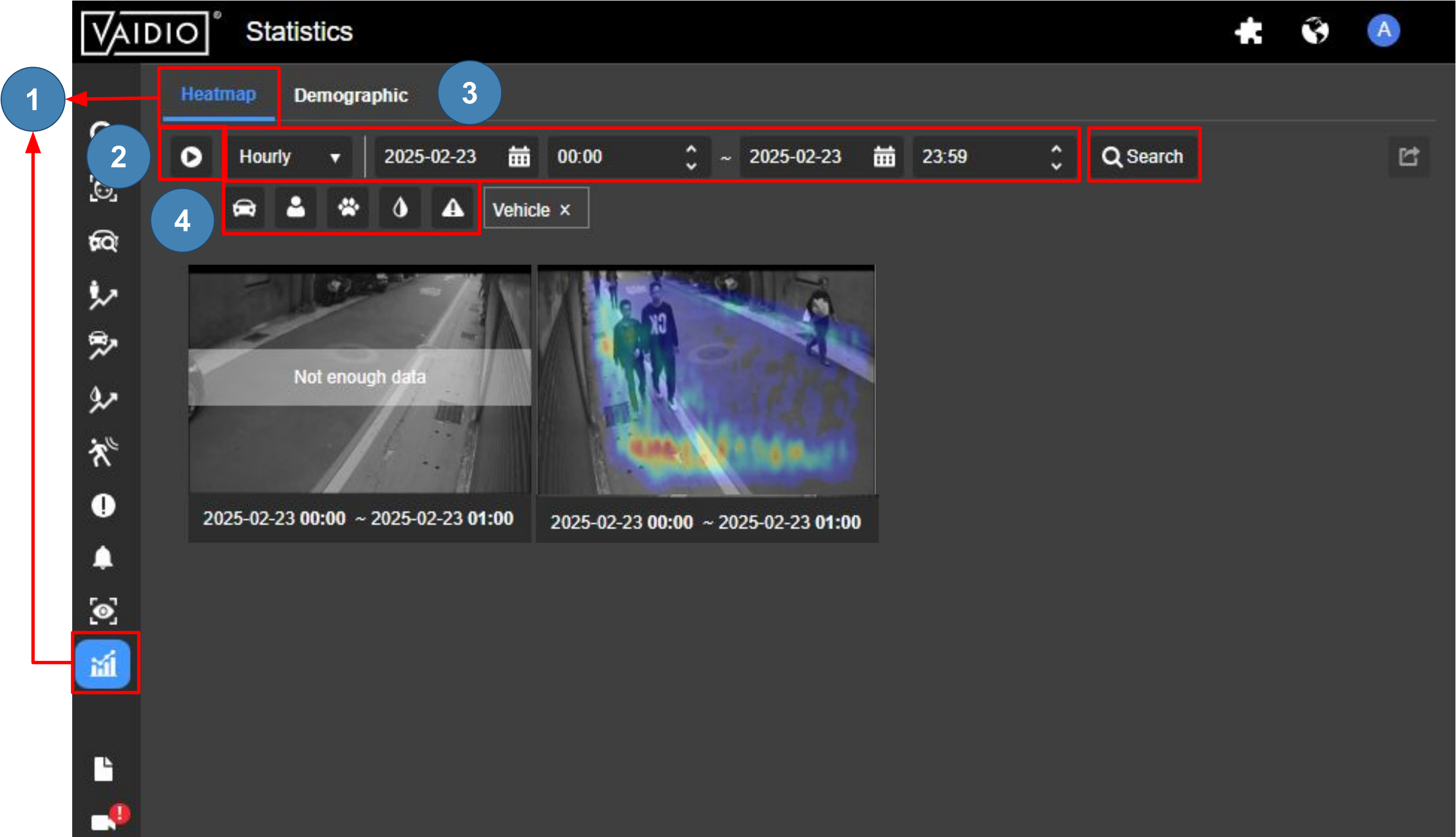Generates heatmaps for selected object types over a **24-hour** period. Results display in the **Hourly** or **Aggregated** (one image per **24-hour** period) mode.

1. **Statistics** > **Heatmap**.

2. Click the **Play** icon to select a **camera** from a list of available cameras configured for **Heatmap**, then click **OK**.

3. Select from the drop-down menu, **Hourly** or **Aggregated** and select a **timeframe**.

4. Select one or more object types.

5. Click **Search** to display heatmap images.

Notes

❏ Selected object types display next to their icons.
❏ Select up to **five** object types.

❏ One video source per search (e.g., the real-time stream from a camera or an uploaded video).
❏ Videos should be longer than **one hour** for more accurate results.
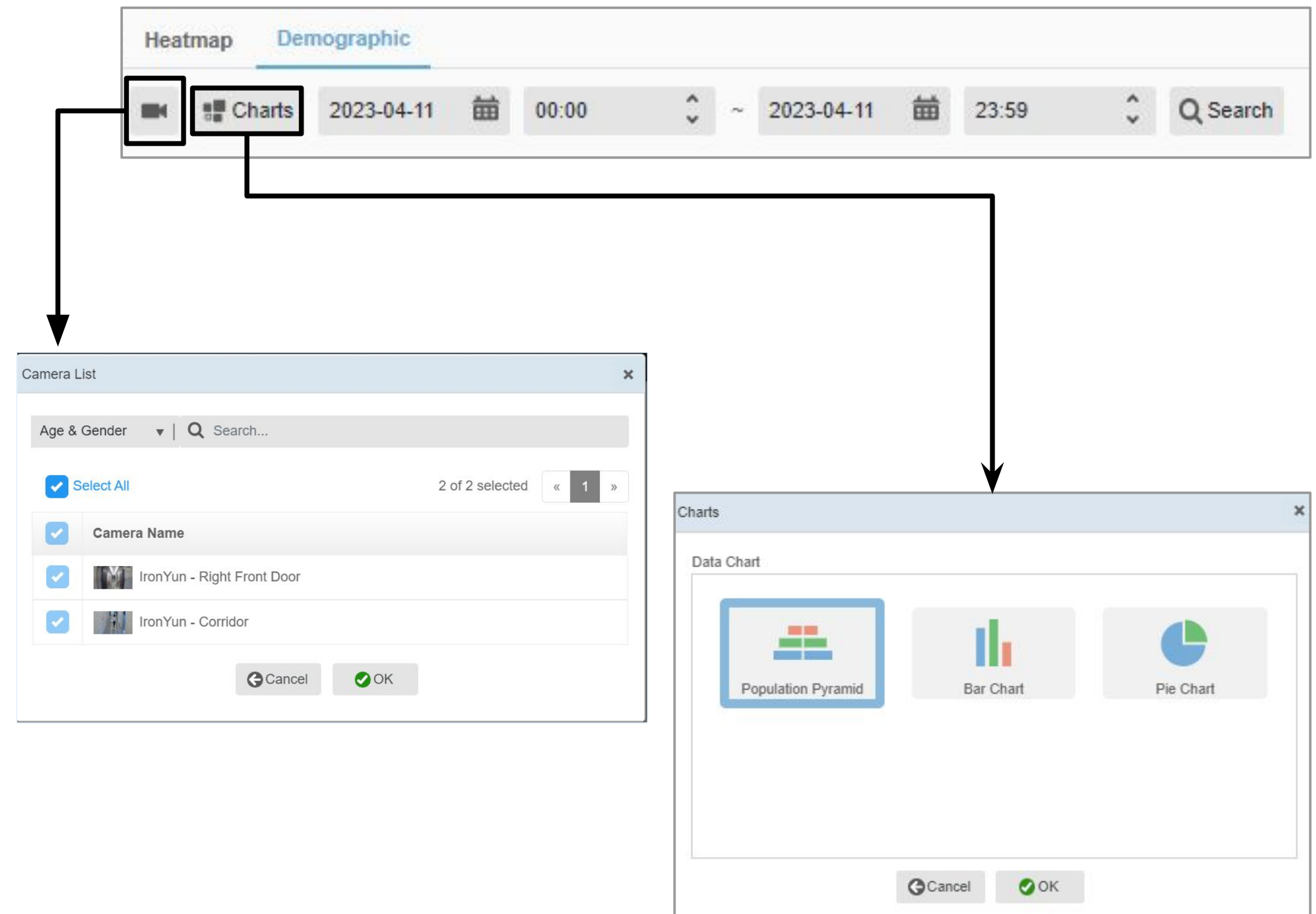
Return to Statistics

DEMOGRAPHICS - AGE & GENDER

In **Statistics** > **Demographic**, select the **Camera icon** to select the **video source(s)**

❏ **Cluster:** Select Vaidio server(s) in network

  ❏ **Default:** ALL Vaidio servers

❏ **Age & Gender:** Display all cameras with Age & Gender activated

  ❏ Counts duplicates (i.e., the same person appearing in several frames is counted several times).

❏ **FR Age & Gender:** Display only cameras with both Face Recognition (FR) and Age & Gender

  ❏ Counts fewer duplicates

Note

Demographic stats may have duplicates unless deployed at a choke point (e.g., check-in kiosk) with custom check-in software.

Return to Statistics

DEMOGRAPHICS - CHART TYPES

Navigate to **Statistics** > **Demographics** and click **Charts** to display **Age and Gender** statistics in **three** different **Data Chart types**:

❏ **Population Pyramid**

❏ **Bar:** Select either **Time** or **Camera** as the Data Source.

❏ **Pie:** Select either **Age** or **Gender** as the Data Source.

After making **Data Chart** selections and clicking **OK**, select a **24-hour timeframe**, then click **Search** to populate the selected chart.

DEMOGRAPHICS - CHART TYPES (CONT.)

Click to download in **.jpg** or **.pdf format**.

Click to display data as a **list** for each selected **Data Chart type**.

Click to export data in **.xlsx format**.

Return to Statistics

29

LIVE VIEW

LIVE VIEW - SELECT & SORT CAMERAS
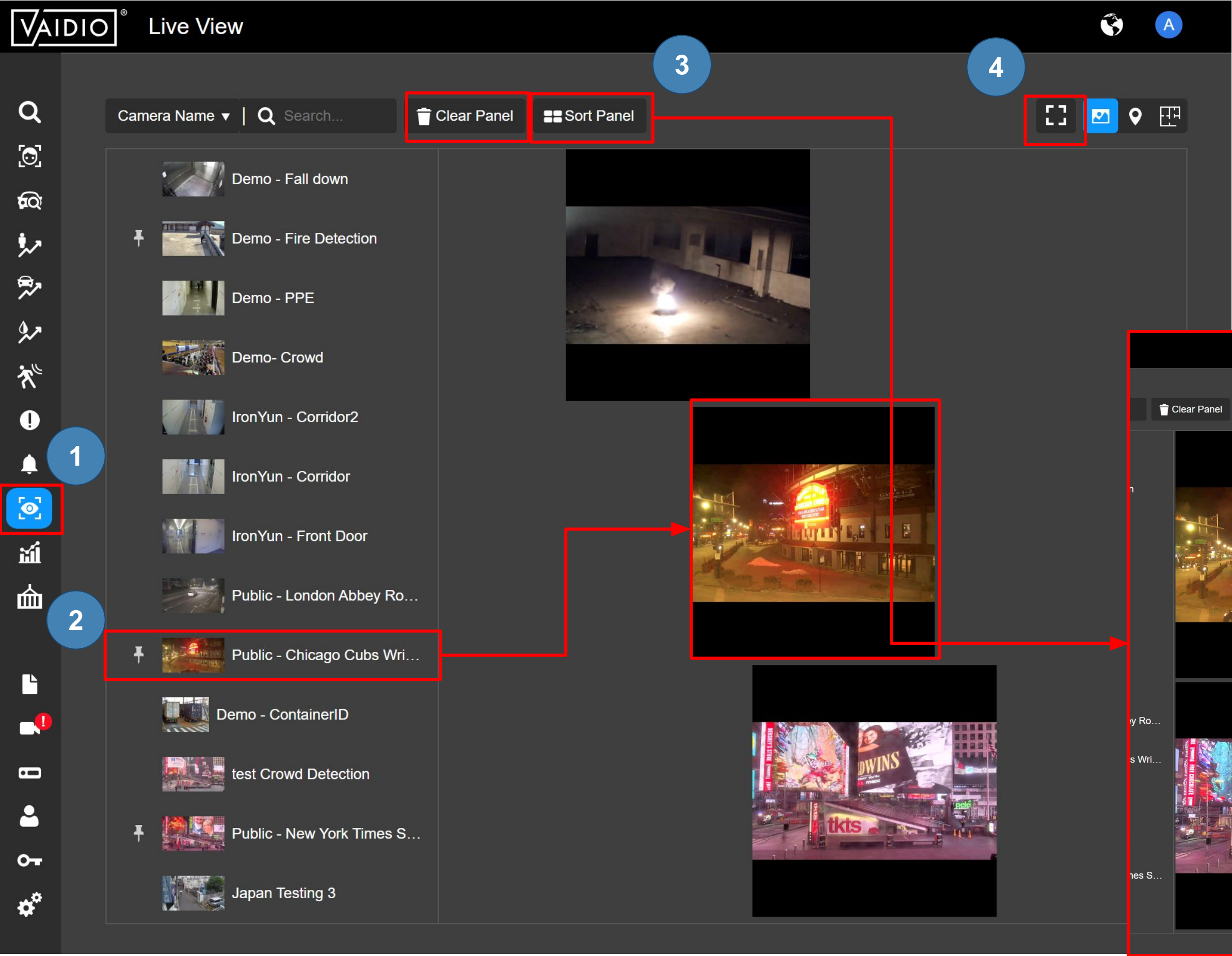
1. Select **Live View** to live monitor one or more cameras simultaneously.

2. Double-click or click and drag **cameras** to the right-hand side of the screen for viewing.

3. Click **Sort Pane** to organize camera views or **Clear Panel** to remove all selected cameras.

4. Select **Full Screen View** to view selected cameras in full screen.
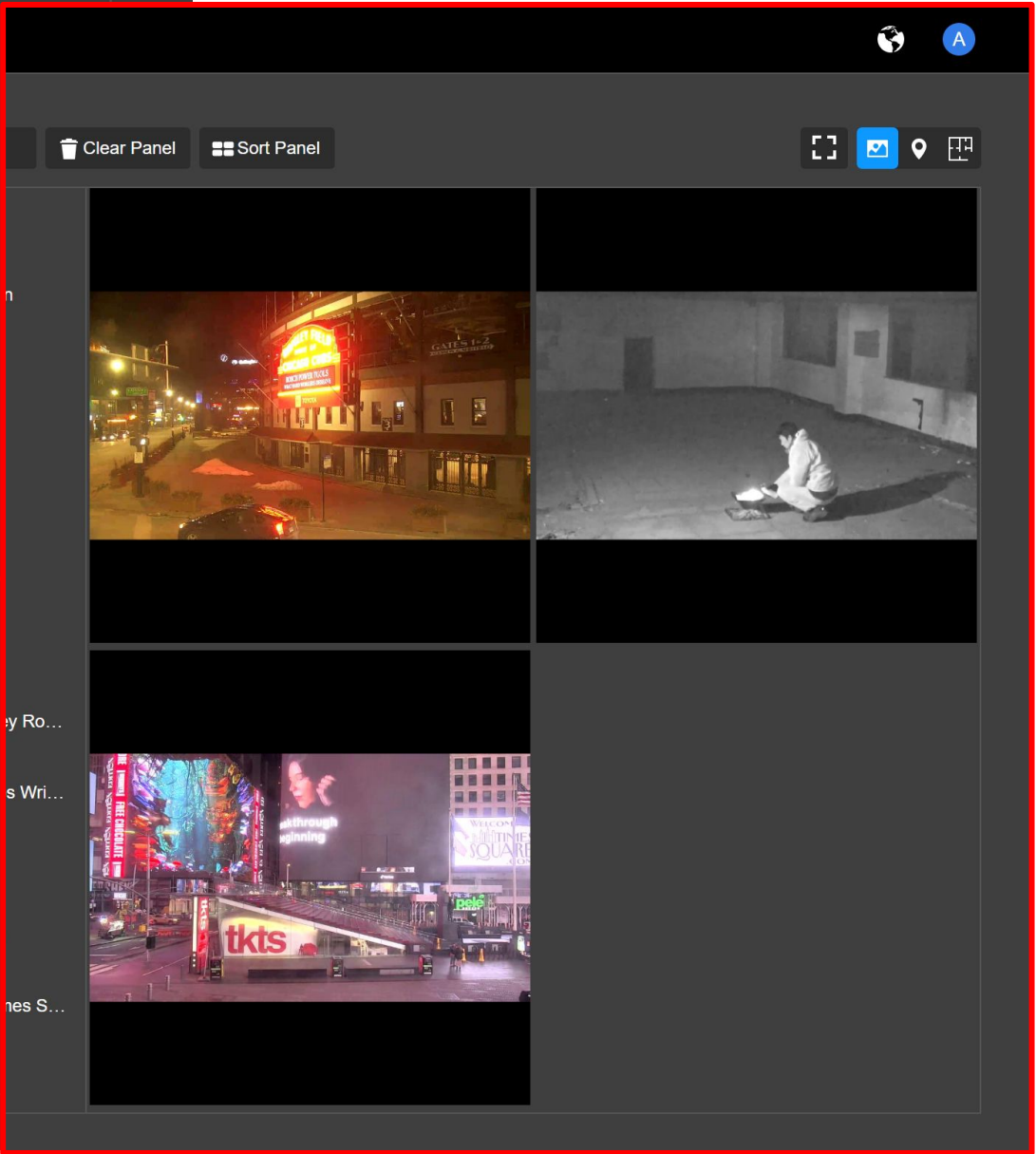
Return to Live View

LIVE VIEW - MAP & FLOOR PLAN VIEWS

Map View:

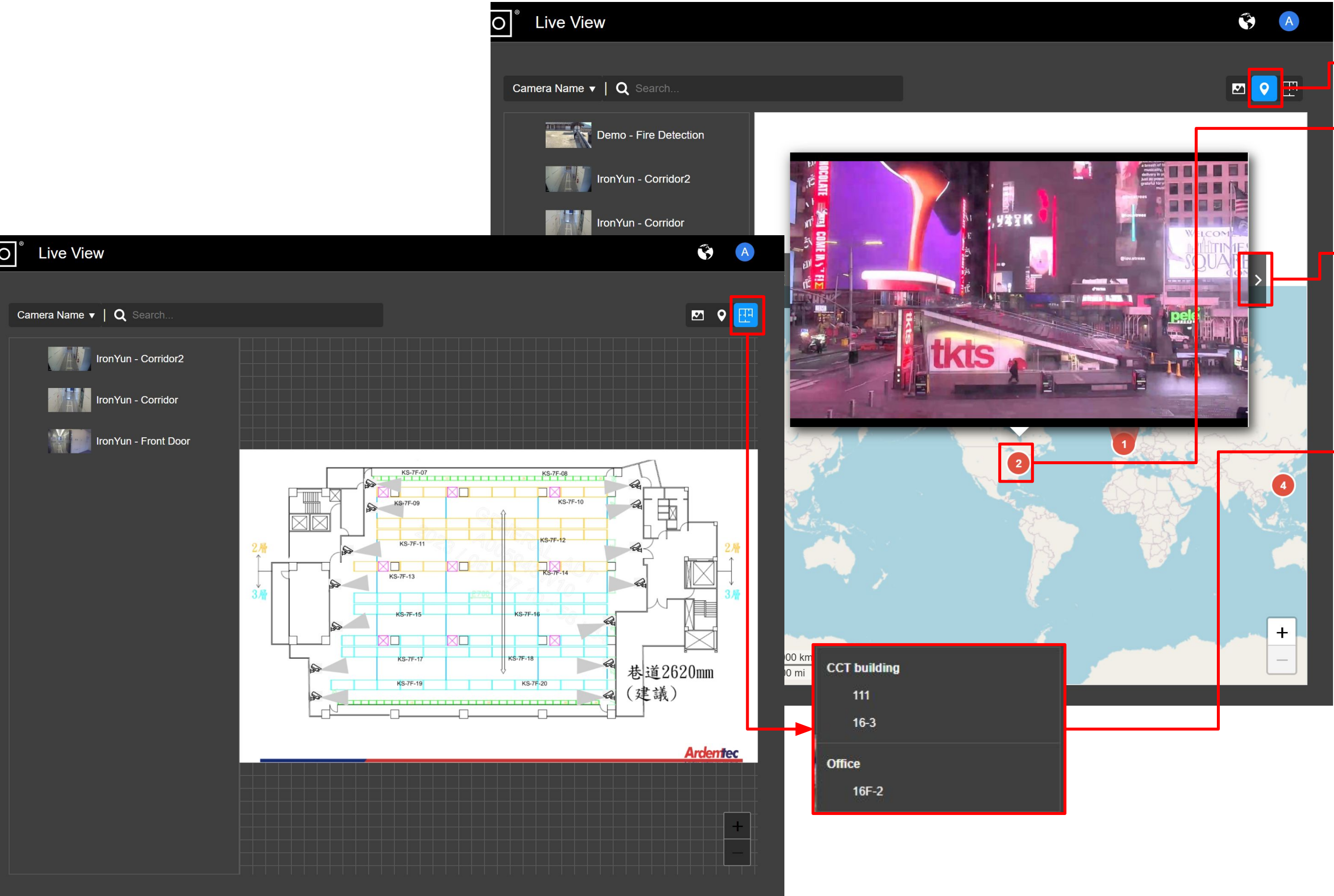❑ Select **Map View** to view configured camera **GPS locations** on a world map.

❑ Select a **number** on the map, which corresponds to the number of cameras at that general location, to view live camera streams.

❑ Click the **adjacent arrows** to view additional camera streams at that location.

Floor Plan View:

Select **Floor Plan View**, then from the drop-down menu, select an available **Floor Plan** for viewing.

FALSE DETECTION REPORT

❏ [Overview](#)

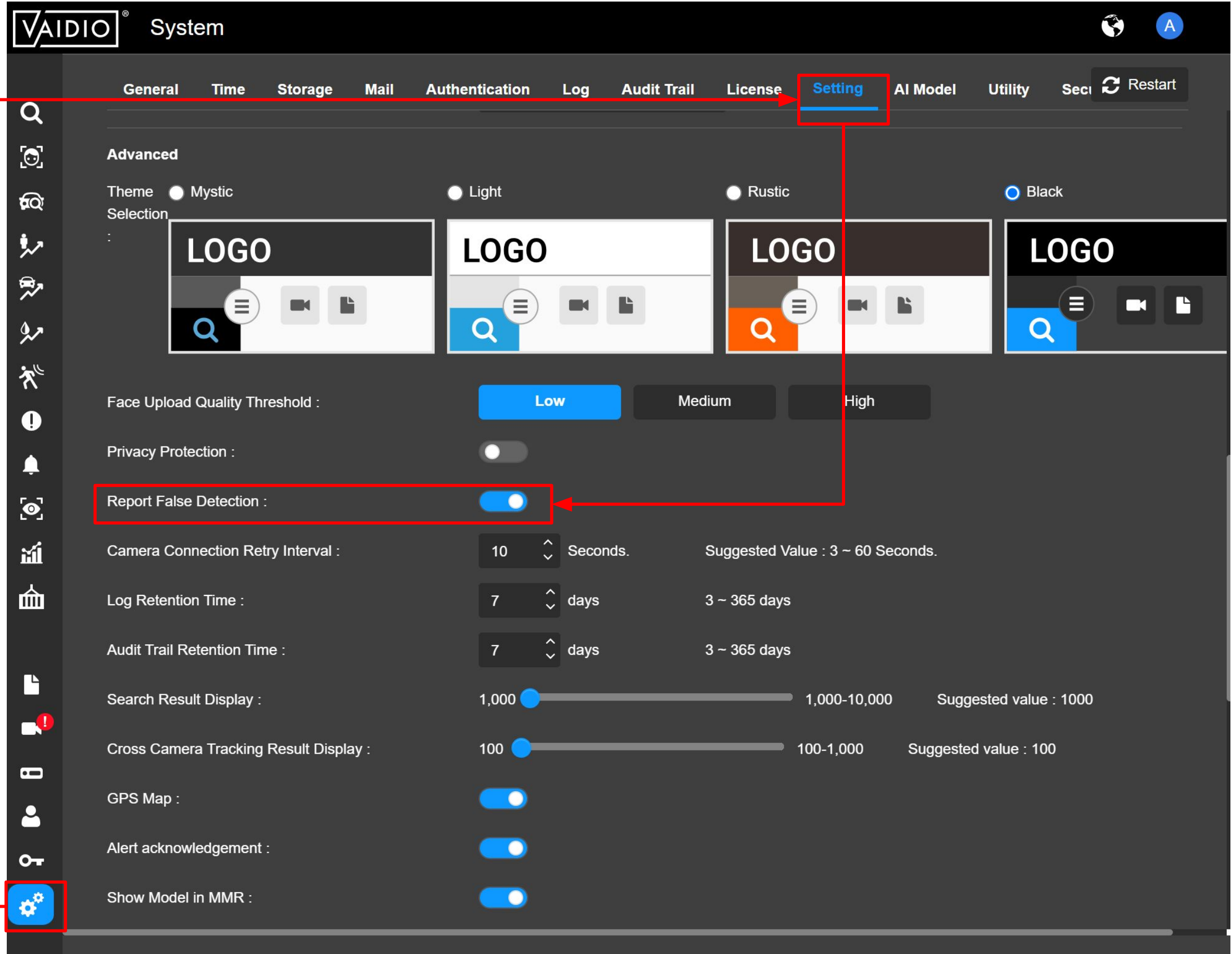❏ [Enable False Detection](#)

❏ [Report False Detection](#)

OVERVIEW

The **False Detection Report** helps improve accuracy by reporting **incorrect detections** to **Vaidio**.

❏ Applies to ALL analytics.

❏ Submit reports via the **Detail Page** in any dashboard (e.g., Search, LPR, Alert, etc.).

❏ **Internet connection** REQUIRED to send snapshots to Vaidio.

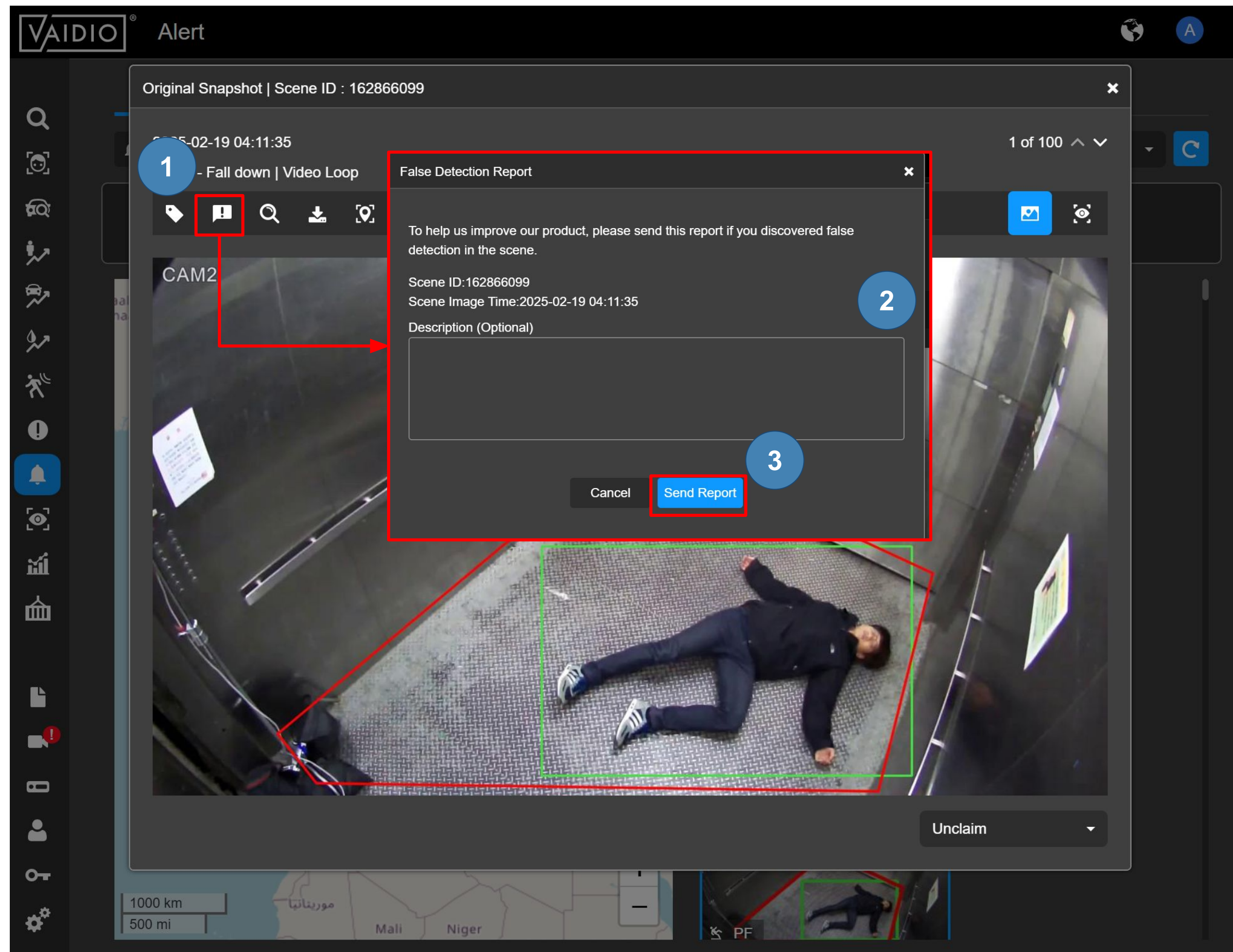# ENABLE FALSE DETECTION

To report false detection results, the feature must be enabled in **System** > **Setting** > **Advanced** section > **Report False Detection** and toggle **ON**.

Return to False Detection Report

REPORT FALSE DETECTION

1. From any **Detail Page** screen (e.g., Alert, Intrusion, Abnormal, etc.), click **Report False Detection** to access a **False Detection Report** popup.

2. Enter a **Description** of the false detection event (Optional).

3. Click **Send Report** to log the report.

Note

An **internet connection** is required to log **False Detection Reports**.

SUPPORT

For technical support, please go to the Support Portal to fill out a ticket.

For additional guides and training, please visit the Vaidio Partner Portal.

Request access at vaidio.ai/support to register for an account.

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THANK YOU

For more information, visit Vaidio Support Page on the Partner Portal