



Milesight-Troubleshooting

People Counting

Camera Firmware	4x.7.0.77 or above	Update	2021.12.22
Camera Firmware	4x.8.0.1 or above	Update	2022.4.20

1. Introduction

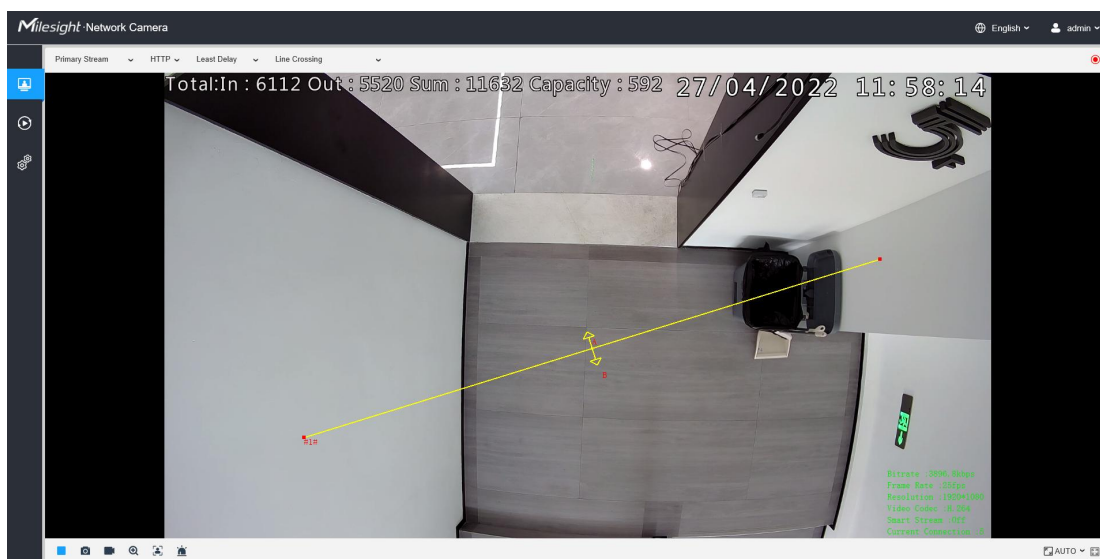
To monitor the flow of people, we added People Counting as an advanced function to our cameras. It has been well-received by the market since released.

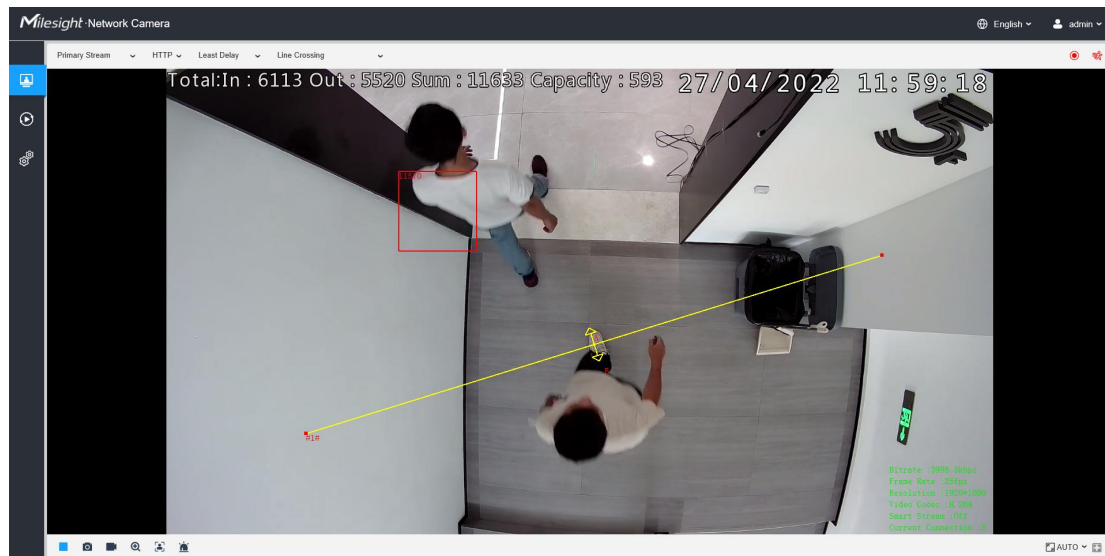
Now, we release firmware version 4x.7.0.77, separating People Counting from VCA and adding Statistics Report function. From this article, you can have a better understanding about People Counting, Analysis Settings and Analysis Search.

Note: Only network camera with firmware version 4x.7.0.77 or above supports this function.

1.1 What is People Counting

People Counting is able to count how many people enter or exit during the setting period, which can therefore serve multiple purposes such as helping retailers to count how many customers came in a day. It records the number of people passing through the line automatically. People who cross along the direction of the arrow will be recorded as IN. On the contrary, they will be recorded as OUT.

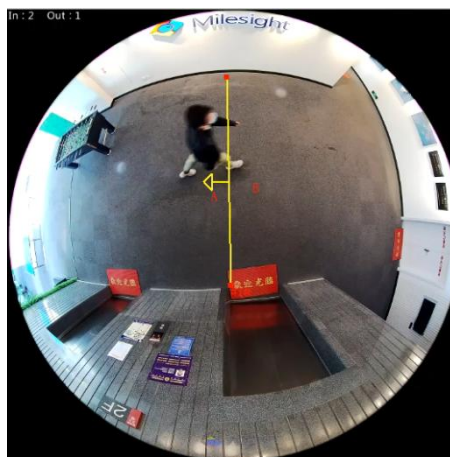




1.2 Installation Suggestions

When the camera counts, it will frame each object. To ensure the accuracy of counting, we need to let the object pass the line completely. There are two installation suggestions as follows.

- Top Mounting: Top-mounted cameras can better separate people passing side-by-side.



- Wall Mounting: Wall-mounted cameras can better identify people.



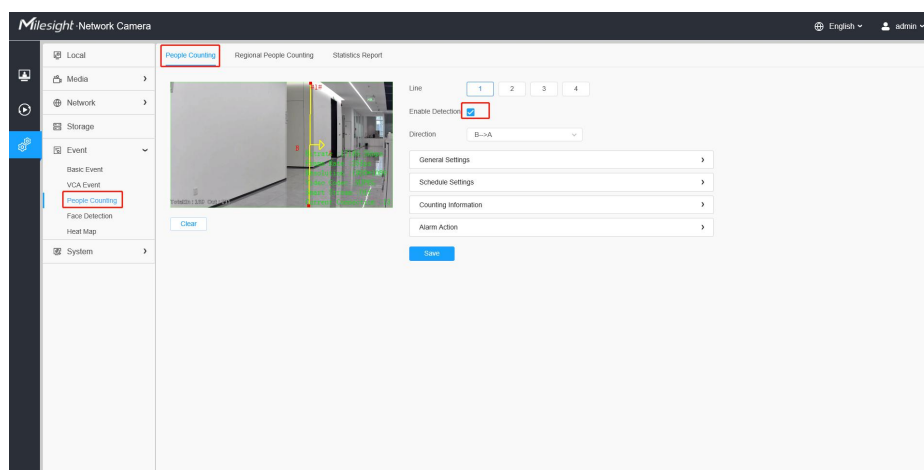
Note: Either way, you need to make camera and people have a proper distance. And there is enough area in front and behind the detection line for the camera to recognize the object.

2. How to Set People Counting

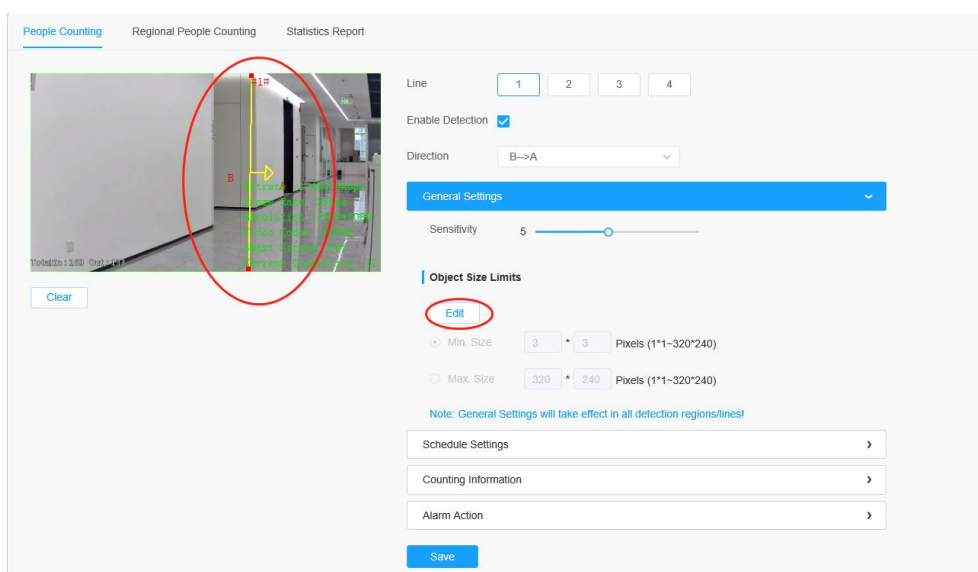
2.1 Basic Settings of People Counting

Step 1: Select Event→People Counting→People Counting in Configuration and enable it.

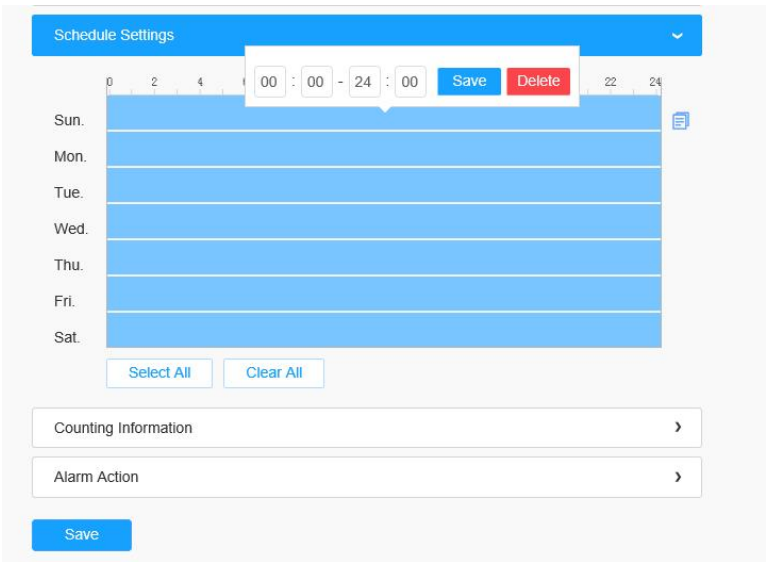
PTZ series cameras have advanced options to select and configure different preset points.



Step 2: Draw a line (Up to 4 lines can be set). The direction of the arrow is IN. If necessary, you can also set Min and Max size limits of object to exclude abnormal targets.



Step 3: Click Schedule Settings and Choose when to count people.



Step 4: If necessary, turn on Counting OSD to display People Counting on the LiveView.

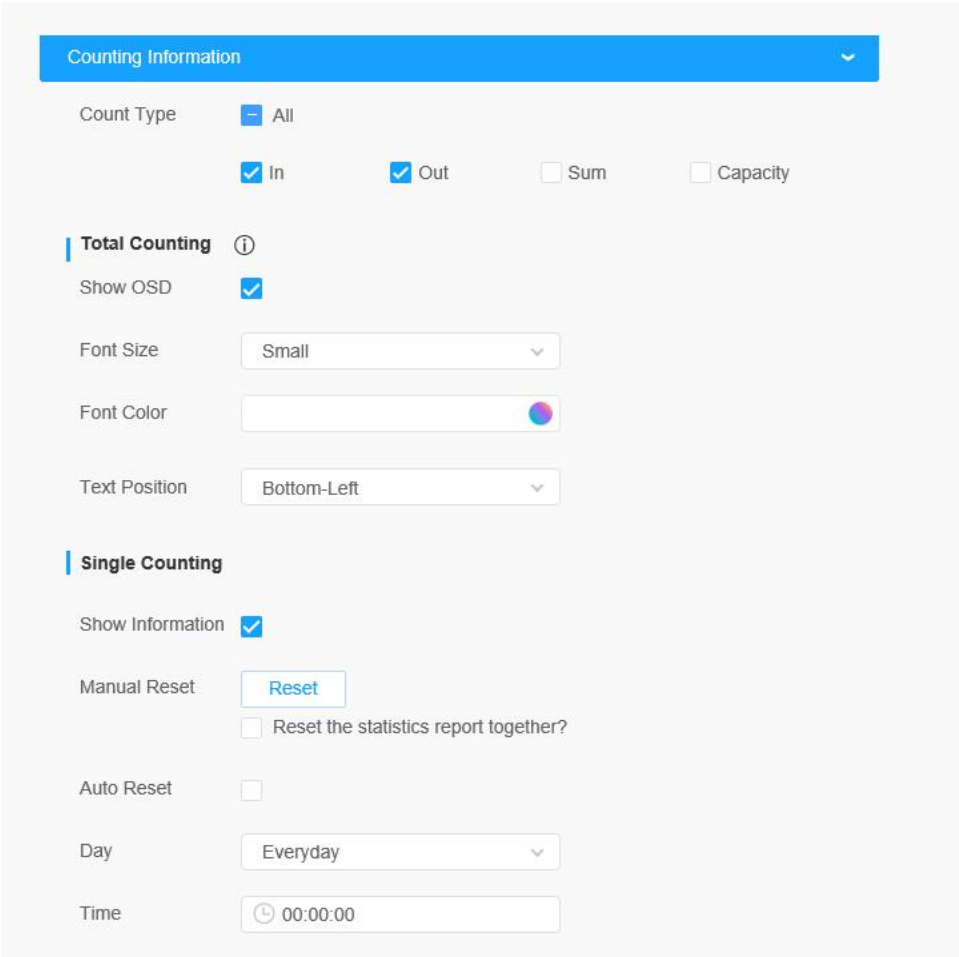


Table1 Description of the buttons

Parameters	Function Introduction
Counting Type	Check them to display these statistical categories
Font Size	Smallest, Small, Medium, Large, Largest and Auto

Font Color		Select the color you need
Text Position		Top-Left, Top-Right, Bottom-Left and Bottom-Right of the frame
Counting Reset		Reset the count of the OSD or the count of the report together
Enable Auto Reset	Day	Select the certain day to auto reset
	Time	Select the certain time to auto reset

2.2 Alarm Settings of People Counting

Alarm Trigger: You could chose the total counting or the single counting and set Thresholds first, and then you could do other settings.

The screenshot shows the 'Alarm Trigger' configuration page. At the top, there is a blue header 'Alarm Action' with a dropdown arrow. Below it, the 'Alarm Trigger' section is active. It contains two tabs: 'Total Counting' (selected) and 'Single Counting'. Under 'Total Counting', there are four threshold settings: 'In' (checkbox), 'Out' (checkbox), 'Capacity' (checkbox), and 'Sum' (checkbox). Each checkbox is followed by a text input field with the value '9999'.

Alarm Action: Configure the specific actions of the camera when the alarm is triggered.

The screenshot shows the 'Alarm Action' configuration page. The 'Alarm Action' section is active. It contains a list of actions with checkboxes and expandable details:

- ☐ **Record** >
- ☐ **Snapshot** >
- ☐ **External Output** >
- ☒ **Play Audio** (Please enable the Audio Speaker.)
- ☐ **Alarm to SIP Phone**
- ☐ **HTTP Notification** >

Below this list, there is a detailed view for the 'Record' action:

- ☐ **Record** v
- Duration: 5 s v
- Linkage:
 - ☒ Save to storage (Please mount storage device.)
 - ☐ Upload Via FTP

☐ **Snapshot** ▼

Number

3 ▼

Interval

1

second ▼

Linkage

☐ Save to storage (Please mount storage device.)

☐ Upload Via FTP

☐ Send Email (Please enable the Email.)

Email Triggered Interval

Auto ▼


☐ **External Output** ▼

Action Time

30 s ▼

☐ **Play Audio** ▼


Alarm Action




Interval

Auto ▼

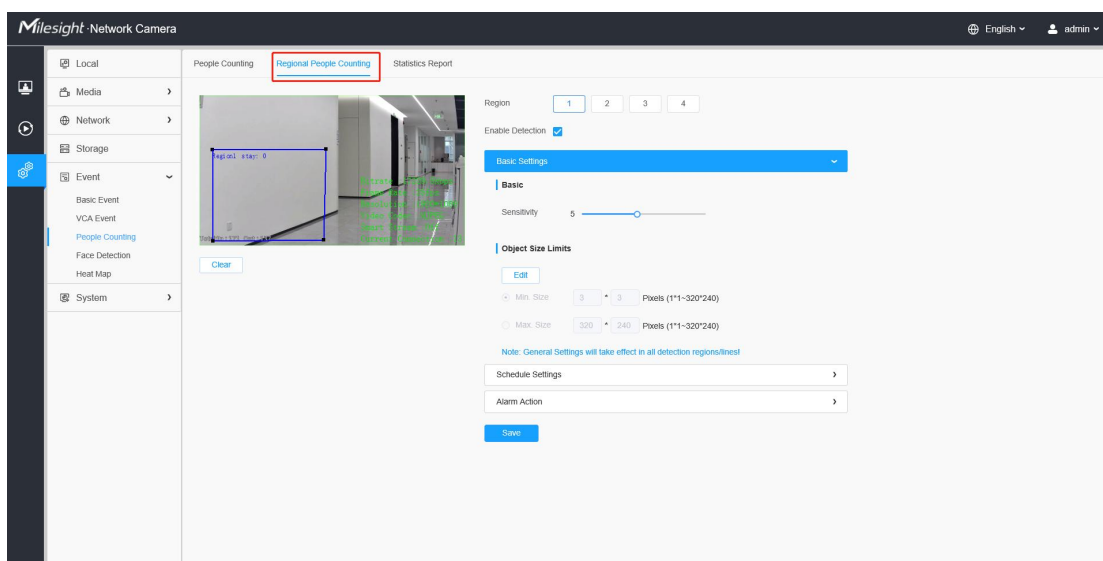
Table2 Description of the buttons

Parameters	Function Introduction
Record	Duration: Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available. Linkage: Save alarm recording files into SD Card or NAS or Upload the recording files via FTP.
Snapshot	Number: The number of snapshot, 1~5 are available. Interval: This cannot be edited unless you choose more than 1 to Snapshot. Linkage: Save alarm recording files into SD Card or NAS, Upload the recording files via FTP and send alarm email.
External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration.
Play Audio	Auto/10 seconds/30 seconds/1 minute/5 minutes/10 minutes are available.  Note: Please enable the Audio Speaker.

Parameters	Function Introduction
Alarm to SIP Phone	Support to call the SIP phone after enabling the SIP function.  Note: Please open the SIP.
HTTP Notification	Support to pop up the alarm news to specified HTTP URL.

3. Regional People Counting

When enabling regional people counting, users can check the real-time number of people and the time of each person's stay in the detection region.

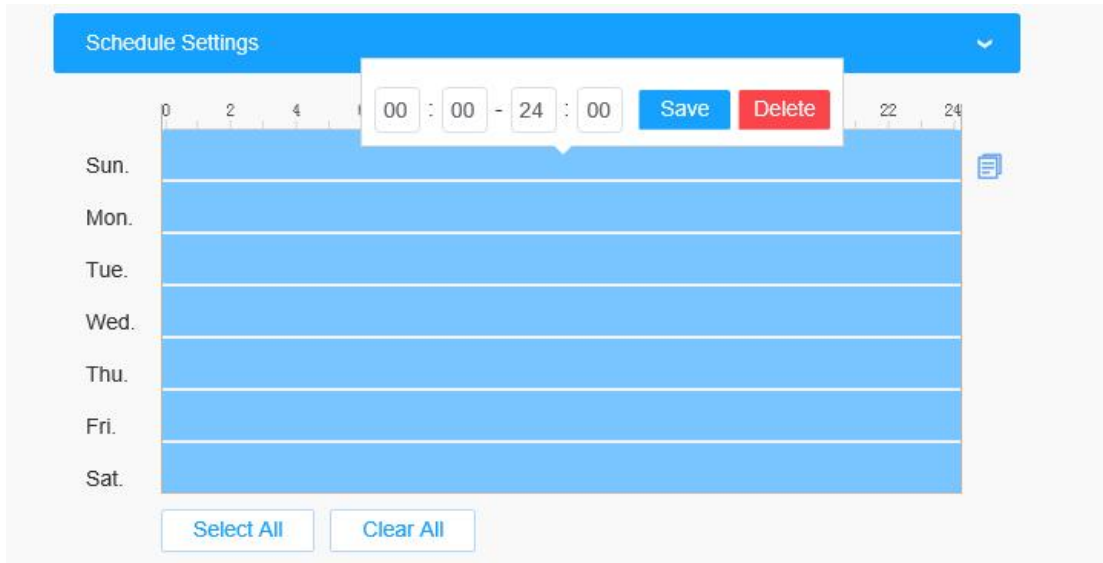


Settings steps are as shown below:

Step1: Enable Regional People Counting;

Step2: Set detection region and object size limits. The object size limits can refer to screenshot above;

Step3: Set detection schedule, edit the schedule settings and choose when to count people.



Schedule Settings

00 : 00 - 24 : 00 Save Delete

Sun.

Mon.

Tue.

Wed.

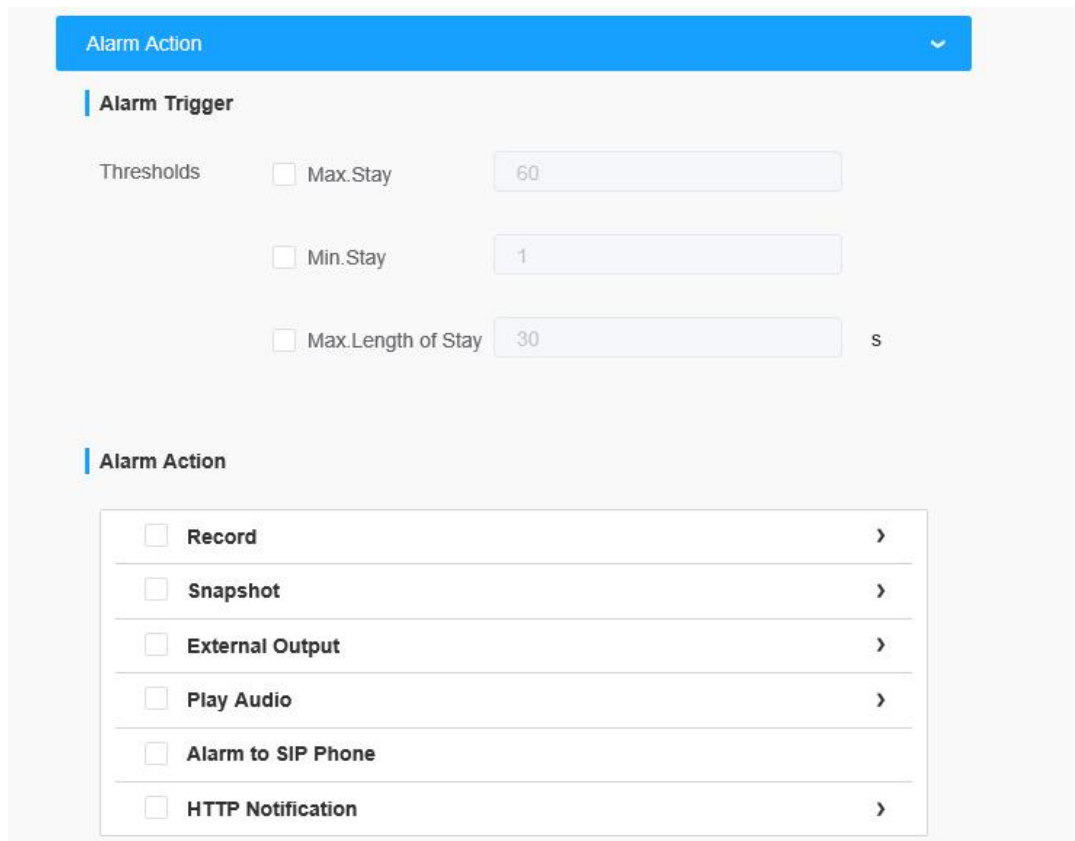
Thu.

Fri.

Sat.

Select All Clear All

Step4: Set Alarm Trigger and Alarm Action, Alarm will be triggered and take actions what you chose when the thresholds reaches to a certain value.



Alarm Action

Alarm Trigger

Thresholds

☐ Max.Stay 60

☐ Min.Stay 1

☐ Max.Length of Stay 30 s

Alarm Action

- ☐ Record >
- ☐ Snapshot >
- ☐ External Output >
- ☐ Play Audio >
- ☐ Alarm to SIP Phone
- ☐ HTTP Notification >

Note: Camera firmware version xx.7.0.78 or above support regional people counting.

4. Statistics Report

After a certain time of counting, you can start using the Statistics Report function. With

this function, you can search by Statistics Types or Report Type. The search result supports Line Chart and Histogram, which could help users to study flow trend.

Search: Select Event→People Counting→Statistics Report in Configuration. Before click Search, you need to configure each parameter.

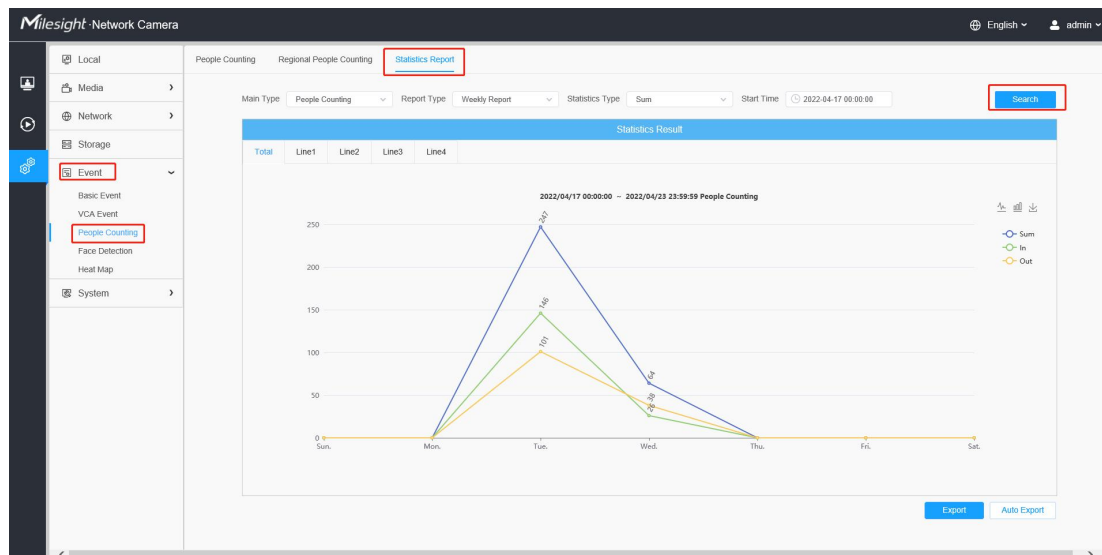
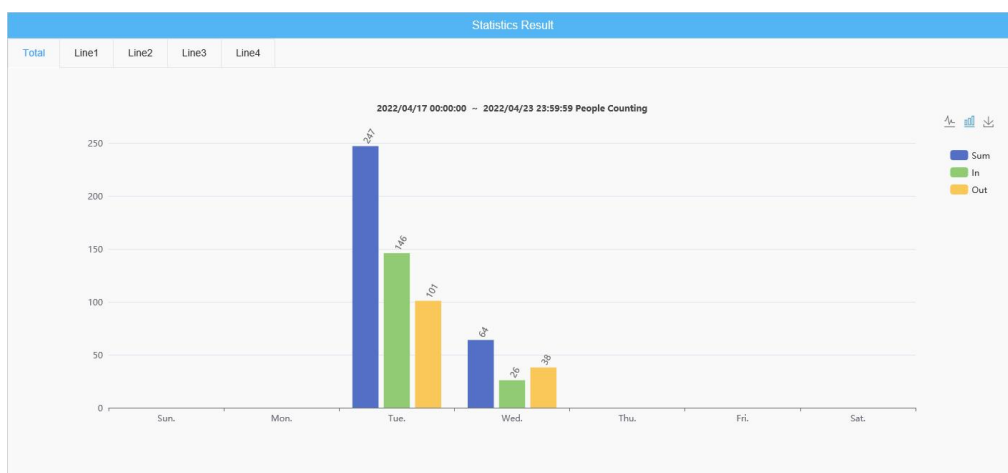


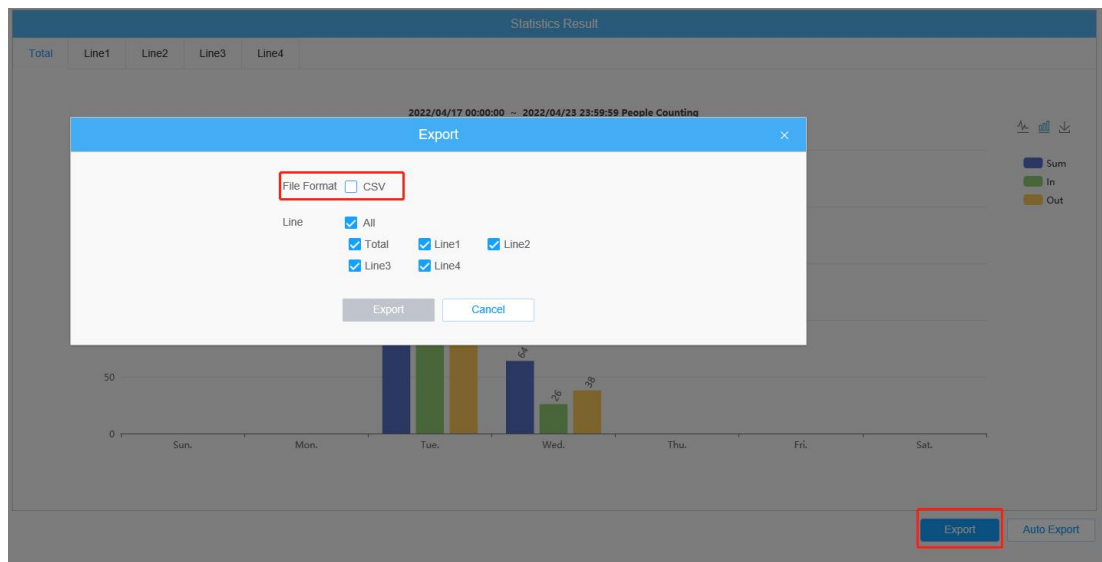
Table4 Description of Parameters

Parameters	Function Introduction
Main Type	Only People Counting is available.
Report Type	Choose to report by day, week, month or year.
Statistics Type	Choose to report by the number of entering, the number of leaving or the total number.
Start Time	Select the starting time point of the search.

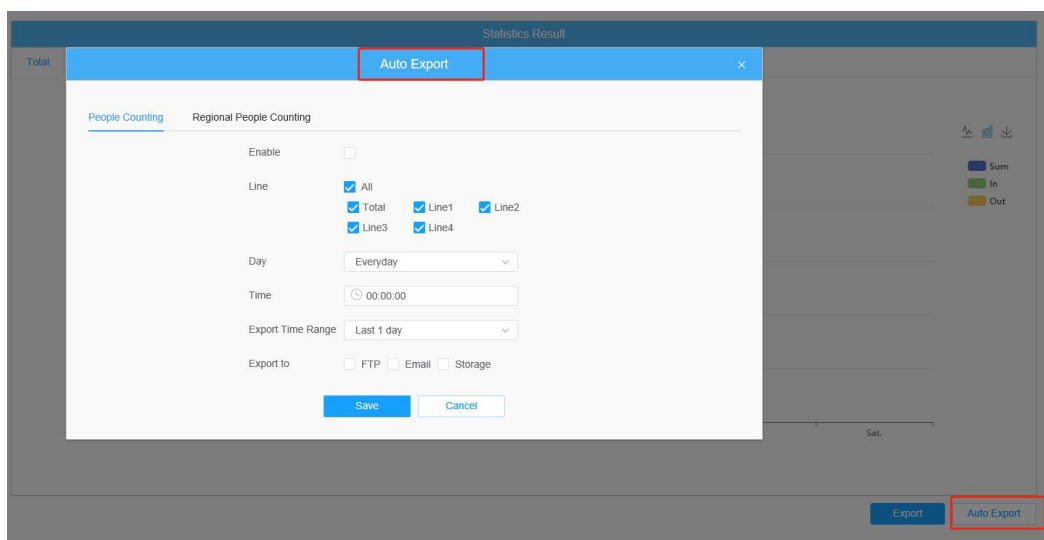
Click the button in the top-right corner to switch Line Chart and Histogram.



Export: Click Report Export to manually export a CSV sheet of current display result.



Click Auto Export to configure the time, range and direction for automatic export, which only supports CSV sheets.



—————END—————