

Milesight-Troubleshooting

People Counting

Camera Firmware	4x.7.0.77 or above	Update	2021.3.15
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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

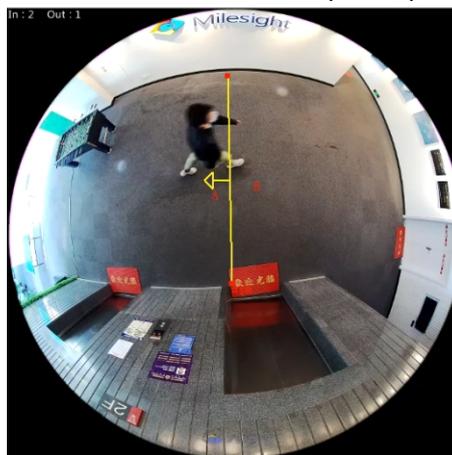
People Counting is able to count how many people enter or exit during the setting period, which can therefore serve multiple purposes such as helping retailers to count how many customers came in a day. It records the number of people passing through the line automatically. People who cross along the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

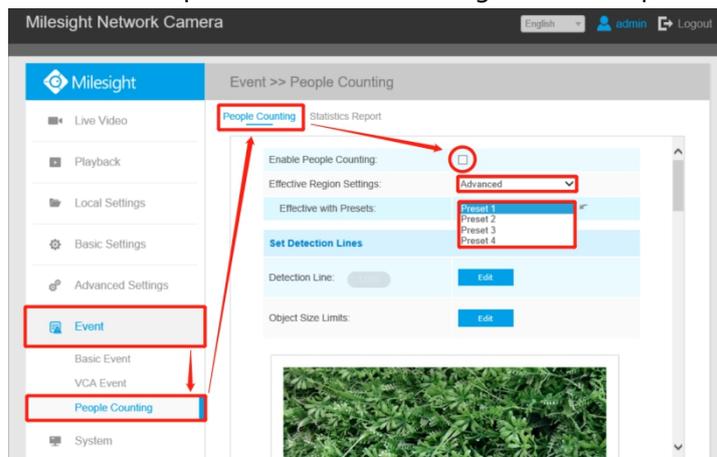


Note: Either way, you need to make camera and people have a proper distance. And there is enough area in front and behind the detection line for the camera to recognize the object.

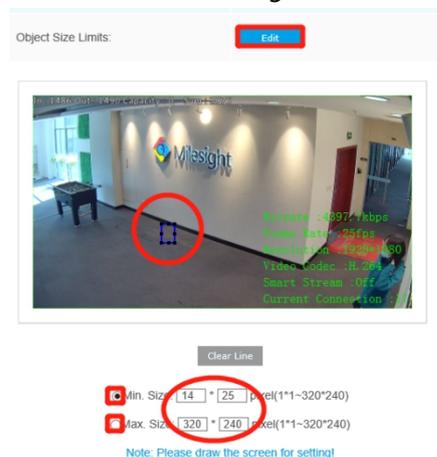
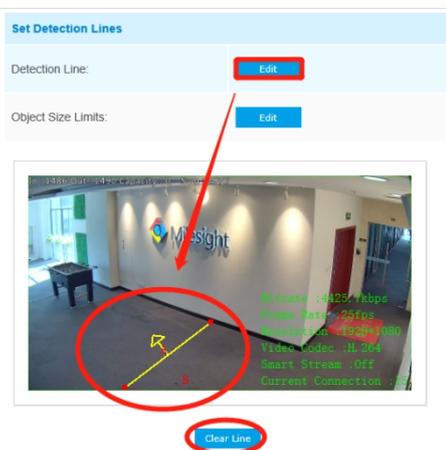
2. How to Set People Counting

2.1 Basic Settings of People Counting

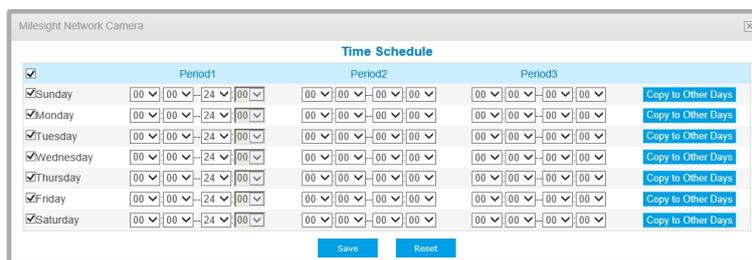
Step 1: Select *Event* → *People Counting* → *People Counting* in *Configuration* and enable it. PTZ series cameras have advanced options to select and configure different preset points.



Step 2: Click *Edit* of *Detection Line* and draw a line. 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 *Edit* of Schedule Settings and Choose when to count people.



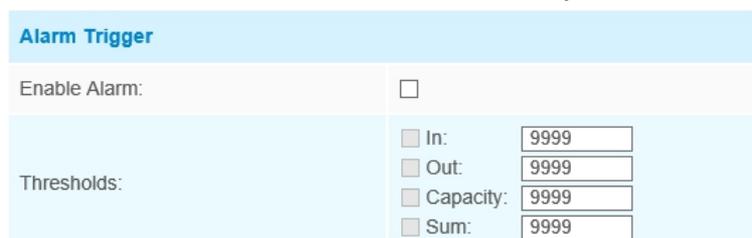
Step 4: If necessary, turn on *Counting OSD* to display People Counting on the LiveView

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: Enable Alarm and set Thresholds first, and then you could do other settings.



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

Alarm Action	
Save Into Storage:	<input type="checkbox"/> File Format: Record Record (Please mount storage device.)
Upload Via FTP:	<input type="checkbox"/> File Format: Record Record
Upload Via Email:	<input type="checkbox"/> File Format: Snapshot Snapshot
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please configure the Audio Action Settings and Audio Interval.)
Alarm to SIP Phone:	<input type="checkbox"/> (Please open the SIP.)
HTTP Notification:	<input checked="" type="checkbox"/>

Table2 Description of the buttons

Parameters	Function Introduction
Save Into Storage	Save alarm recording files into SD Card or NAS
Upload Via FTP	Upload the recording files via FTP
Upload Via Email	Upload the files via Email
External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration
Play Audio	If the camera equips with Speaker, you can enable the action after configuring the audio speaker
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.
HTTP Notification	Support to pop up the alarm news to specified HTTP URL.

Alarm Setting: Set alarm settings.

Alarm Setting	
Record Video Sections:	5 seconds 5 seconds
Snapshot:	3 3
Snapshot Interval:	1 1 second second
Email Triggered Interval:	Auto Auto
External Output Action Time:	30 seconds 30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto Auto

Table3 Description of the buttons

Parameters	Function Introduction
Record Video Sections	Six different periods are available(5, 10, 15, 20, 25, 30 sec)
Snapshot	The number of snapshot, 1~5
Snapshot Interval	It cannot be edited unless you choose more than 1 to Snapshot
External Output Action Time	Length of time an alarm lasts. It cannot be edited unless you enable the External Output on the Alarm Action firstly.
Audio Action Settings	Set the audio schedule to trigger different audio files and action times at different time, which is corresponded to alarm action.
Play Audio Interval	Auto/ 10 seconds/ 30 seconds/ 1 minute/ 5 minutes/ 10 minutes are available.

3. 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.

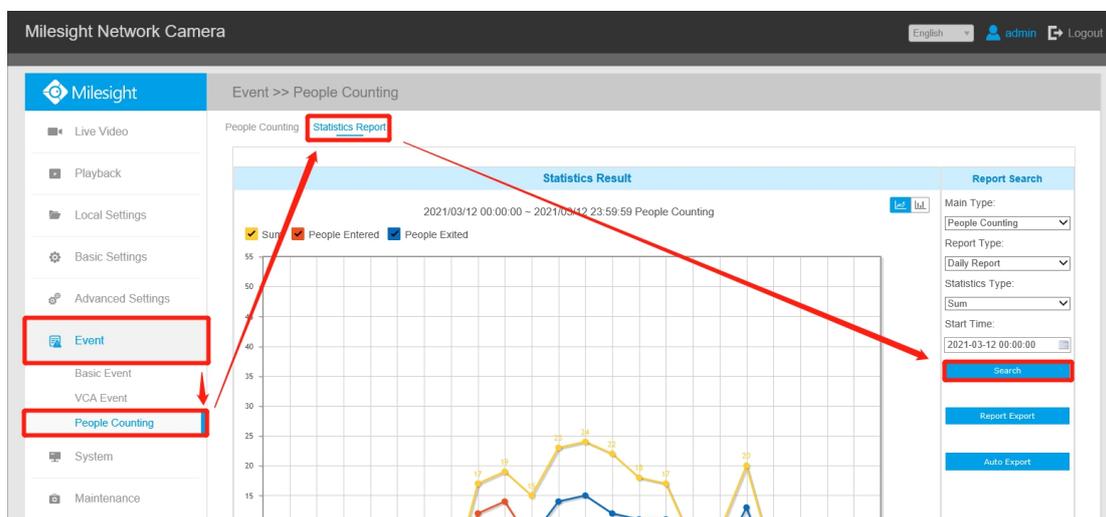
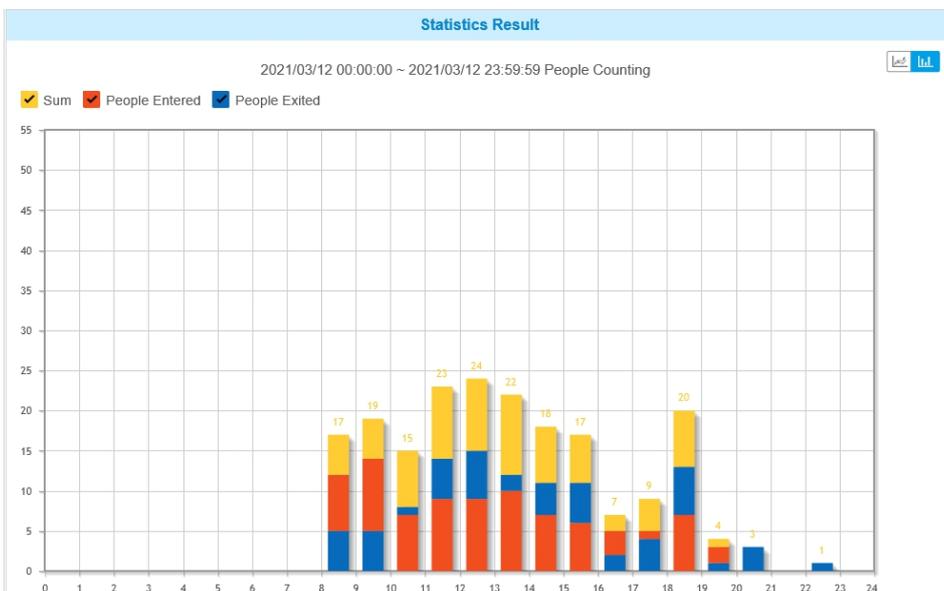
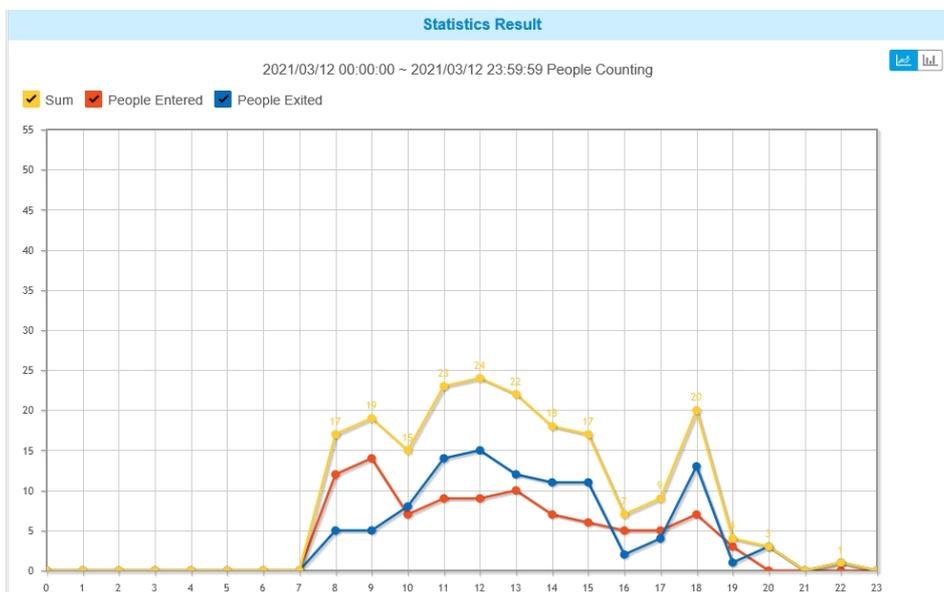


Table4 Description of Parameters

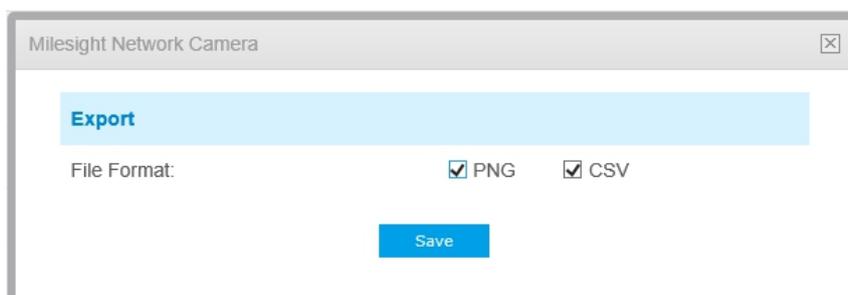
Parameters	Function Introduction
Main Type	Only People Counting is available.
Report Type	Choose to report by day, week, month or year.

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.

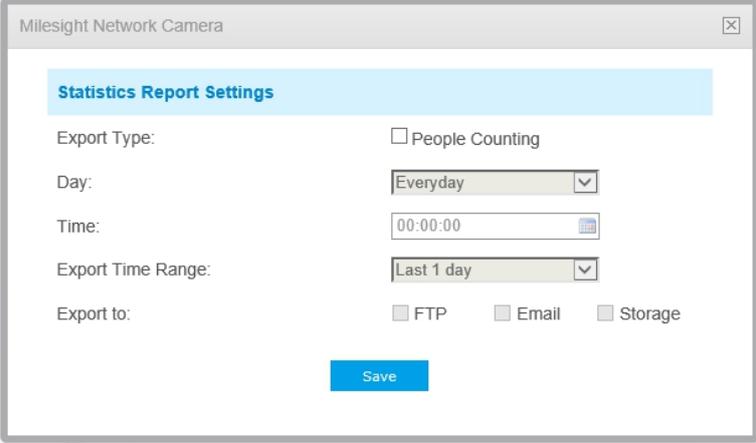
Click the button in the top-right corner to switch Line Chart and Histogram.



Export: Click *Report Export* to manually export a picture or 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.



The screenshot shows a dialog box titled "Milesight Network Camera" with a close button in the top right corner. The dialog is titled "Statistics Report Settings" in a blue header. Below the header, there are several configuration options:

- Export Type:** A checkbox labeled "People Counting" is currently unchecked.
- Day:** A dropdown menu is set to "Everyday".
- Time:** A time input field is set to "00:00:00" with a calendar icon to its right.
- Export Time Range:** A dropdown menu is set to "Last 1 day".
- Export to:** Three checkboxes are present: "FTP", "Email", and "Storage", all of which are currently unchecked.

At the bottom center of the dialog is a blue "Save" button.

END