

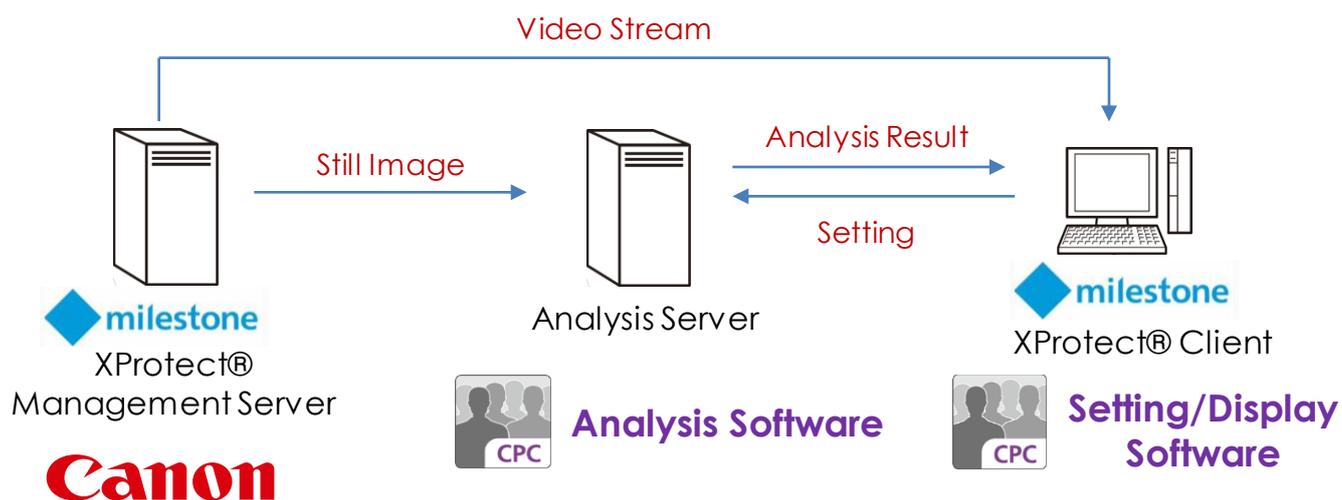
CROWD PEOPLE COUNTER FOR MILESTONE XPROTECT

Plug-in software for Milestone XProtect® to measure headcount in a crowd of tens of thousands, with great accuracy and speed.

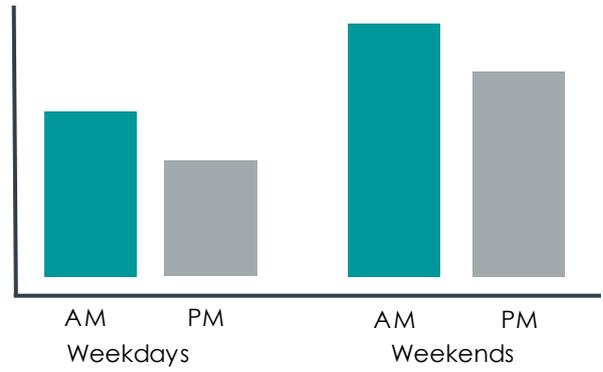


- Wide coverage area requiring fewer cameras to save on equipment and installation cost
- Detects people facing in any direction, to increase detection rate and accuracy
- Real-time alerting achieving immediate action and post analysis using recording data

SYSTEM LAYOUT

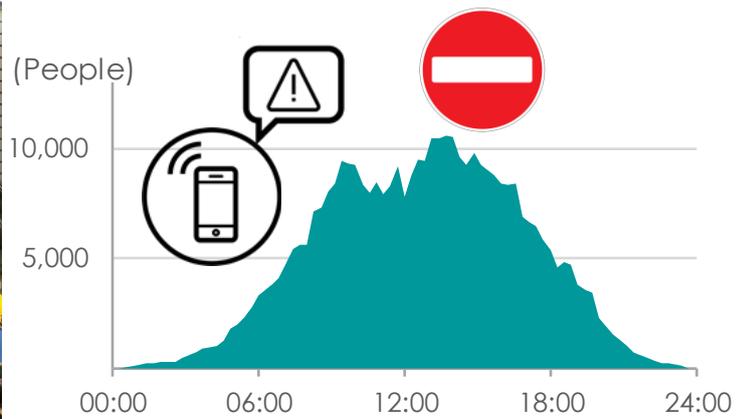


EVENT MANAGEMENT



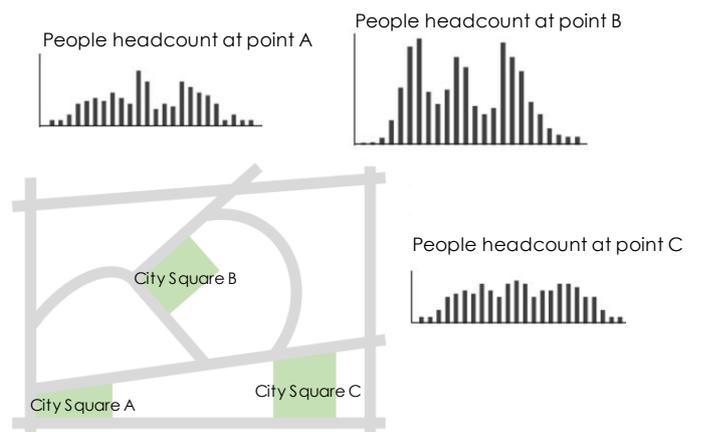
Discover valuable trends by analysing footfall data over time, allowing improved management of staffing to cover busy and quiet periods.

PUBLIC SAFETY



Monitor people movement in real time to implement safety measures when needed, by automatic alerts to security staff and closing entrances.

CITY PLANNING



Discover precise statistical trends of people headcount in specified areas such as city squares, commercial districts, or railway stations, to improve city infrastructure.

Canon

TECHNICAL SPECIFICATIONS

SOFTWARE SPECIFICATION

Requirements for Input data

Supported cameras: Milestone XProtect Compliant
Live/recorded video from network cameras registered to Milestone XProtect
Highest Resolution: 5472 x 3648

Analysis interval

Select from [1, 10, 30 (sec.), 1, 5, 10, 15, 30, 60 (min.)]

Detection and Non-detection area

Respectively up to 4 detection areas.
(Polygon consisting of 3 to 8 points).

Output

Analysed still image file (JPEG)*¹, analysis results file (CSV) *¹, analysed data (JSON)*², log (CSV)

*¹Possible to download analysis results data to XProtect Client

*²An external system necessary to enable Web API to acquire an analysed data.

Interval for creating analysis results files(CSV)

Select from [Do Not Create New File, 1min., 5min., 10min., 15min., 30min., 1hour, 2hours, 4hours, 8hours, 12hours, 24hours].

Preview of analysis results

Display counted result on the screen.
Displays aggregated result as graph.

Event notification

Events are notified when triggered by thresholds.
Possible to set 2 levels of thresholds. Thresholds can be for a camera or for an aggregated results* of multiple cameras(2 to 5).

*Possible to set Multiple camera notification up to 8 sets.

Schedule setting

Up to 20 schedules can be set.
Up to 5 schedules can be set for a camera.
Run history can be saved as a text file.

Number of pixels necessary for detecting

15 pixels for a person's width

Angle Looking Downward on People (Angle of Depression)

10° – 65°

OPERATING ENVIRONMENT

Recommended PC specifications

CPU : Intel Core-i7-6700 or higher (4 cores or more, HT technology compatible)
Memory : 16 GB or more
Storage: The amount of space needed for data output

When outputting JPEG files, one JPEG file is output for each analysis interval, the amount of data from the start till the end of analysis can be calculated by the following formula. Amount of output data = JPEG image file size* x period between start and end of analysis (sec.) / analysis interval (sec.)

*A JPEG image file size can vary widely, depending on the resolution of the input video, background and colour of the image.

Operating system

Windows 10 Pro/Windows 10 Enterprise 64-bit
Windows Server 2012 Standard 64-bit
Windows Server 2012 R2 Standard 64-bit
Windows Server 2016 Standard 64-bit

Required Software

[For Analysis Server]
.Net Framework 4.6.1
SQL Server Express 2016
Visual C++ 2015 Runtime Library
[For XProtect Client]
.Net Framework 4.5.2

Supported language

Japanese/English/Italian/Spanish
*Linked to the language settings of Milestone XProtect Smart Client. Displayed in English for other languages than listed above.

SUPPORTED XPROTECT SERVER

Milestone XProtect Corporate 2016 R3/2017/2018/2019 R1*/2019 R2*, Milestone XProtect Expert 2016 R3/2017/2018/2019 R1*/2019 R2*

Milestone XProtect Enterprise 2016 R2, Milestone XProtect Professional+ 2017/2018/2019 R1*/2019 R2*

Milestone XProtect Professional 2016 R3/2017/2018/2019 R1*, Milestone XProtect Express+ 2017/2018/2019 R1*/2019 R2*

* The function to encrypt communication with the client and services that retrieve data streams from the recording server is not supported.

Disclaimer:

Depending on the recording environment, the number of people in the video may not be properly counted. It is also possible that non-human objects may be incorrectly counted.



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