Panasonic BUSINESS

i-PRO

AI 360-degree fisheye cameras

Model: WV-S4156 , WV-S4556L , WV-S4556LM
WV-S4176 , WV-S4576L , WV-S4576LM

Ver. 1.00

S series

Panasonic i-PRO Sensing Solutions Co., Ltd.

AI-360 degree fisheye cameras

Edge AI 360-degree fisheye camera that provides video surveillance without any blind spots, and business intelligence.

Key features

- **360 deg. in all directions** with high-performance fisheye lens
- **AI processor** for edge AI application
- Supporting **Industry standard** protocols
- **Smart coding** compatible with **H.264 and H.265**

Models: AI-360 degree fisheye cameras

5MP model

Indoor
WV-S4156

Outdoor
WV-S4556L

Outdoor
(M12 connector)
WV-S4556LM

12MP model

Indoor
WV-S4176

Outdoor
WV-S4576L

Outdoor
(M12 connector)
WV-S4576LM

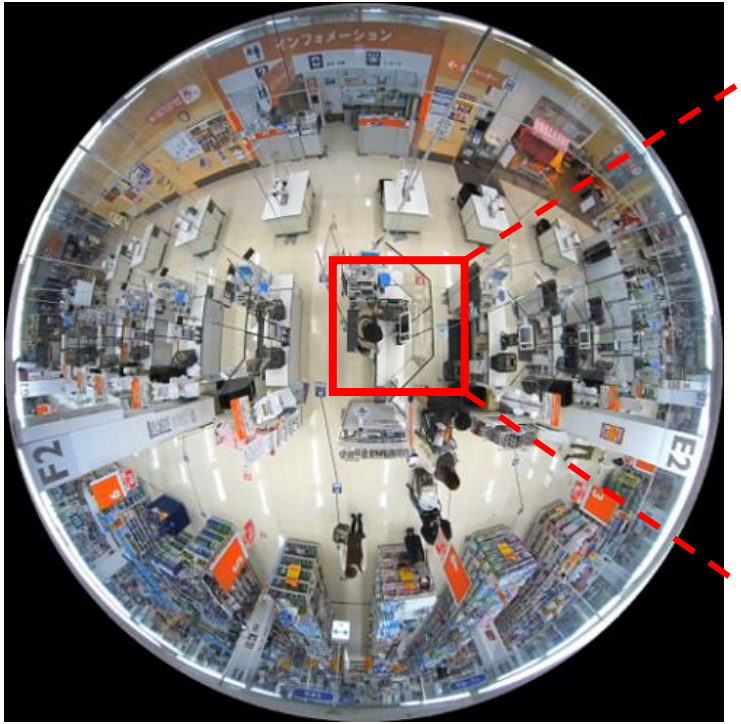
All directions with high-performance fisheye lens

With high-performance fish eye lens, the camera provides superior images up to;

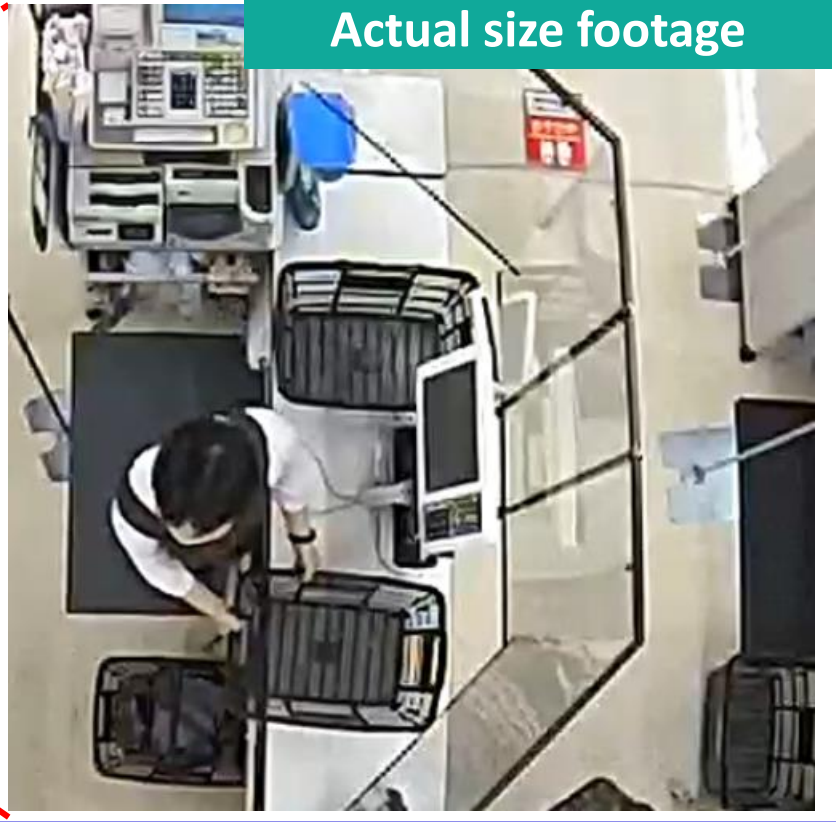
- **2992 x 2992 pixels at 30 fps by 12MP models**
- **2192 x 2192 pixels at 30 fps by 5MP models**

Sample footage: Fisheye mode

2192x2192 pix (5MP model)



Actual size footage



Sample footage: Fisheye mode with IR LED

Outdoor models provides excellent image quality even in no-lighting scene by embedded IR LED

Sample: Fisheye mode in 2192x2192 pixels (5MP model)

Actual size footage

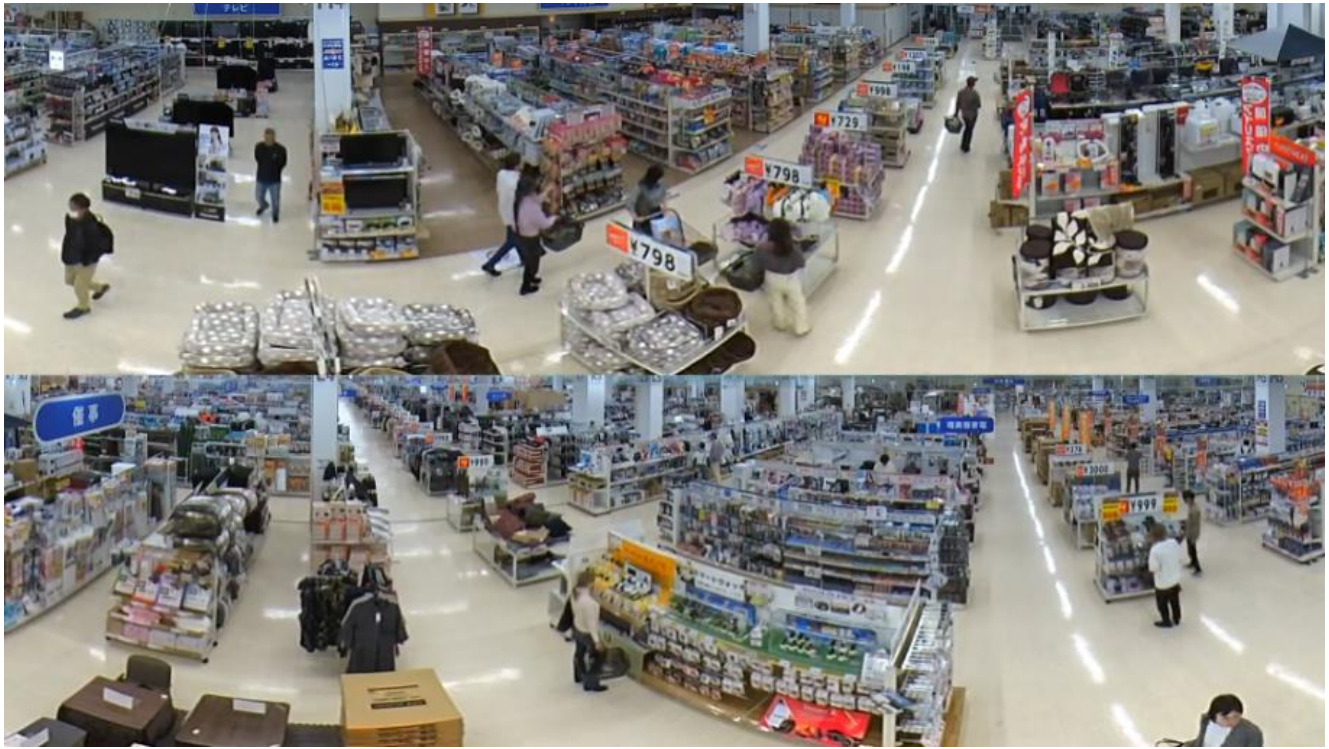
Sample footage: Double Panorama mode

Processing de-warping by the camera

De-warping in below modes

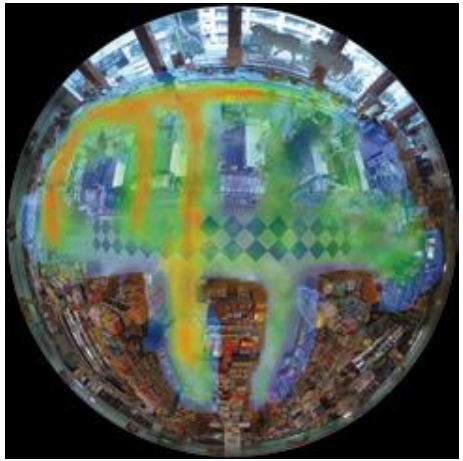
- Double Panorama
- Panorama
- Quad PTZ
- Single PTZ
- Quad streams

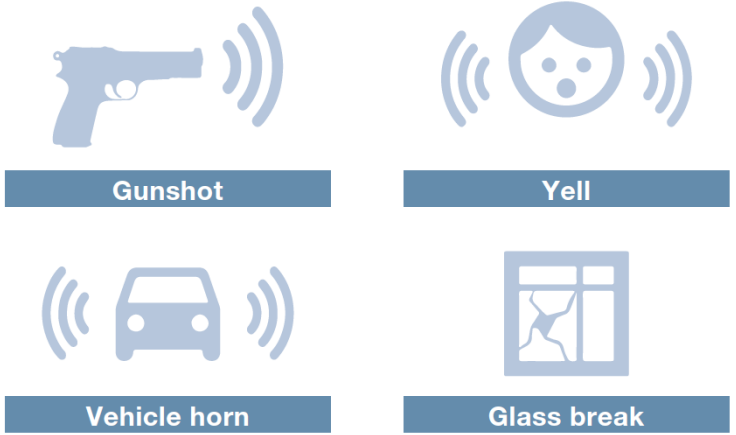
Sample: Double Panorama mode in 1920x1080 pix (5MP model)



AI processor for edge AI application

- Build-in AI processor enables the camera run applications on the device edge
- Pre-installed AI-VMD / AI People Counting, and AI Privacy Guard
- Detecting suspicious sound with built-in microphone (indoor models), with optional external microphone (outdoor models)





Pre-installed AI applications

The camera has pre-installed applications to offer following functions

- AI Video Motion Detection
- People Counting
- Heat map
- Occupancy detection
- AI Privacy Guard

Pre-installed applications: AI Video Motion Detection

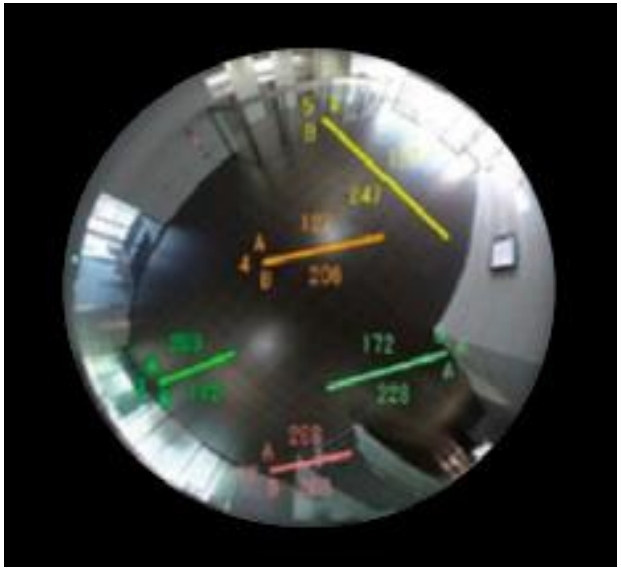
3 functions in detecting motion objects

1. **Intruder detection:**
   Issuing an alarm when a moving object enters a specified area.
2. **Cross Line detection:**
   Issuing an alarm when an object moving in the specified direction crosses a specified threshold.
3. **Loitering detection:**
   Issuing an alarm when a moving object enters a specified area and stays there for a specified amount of time.

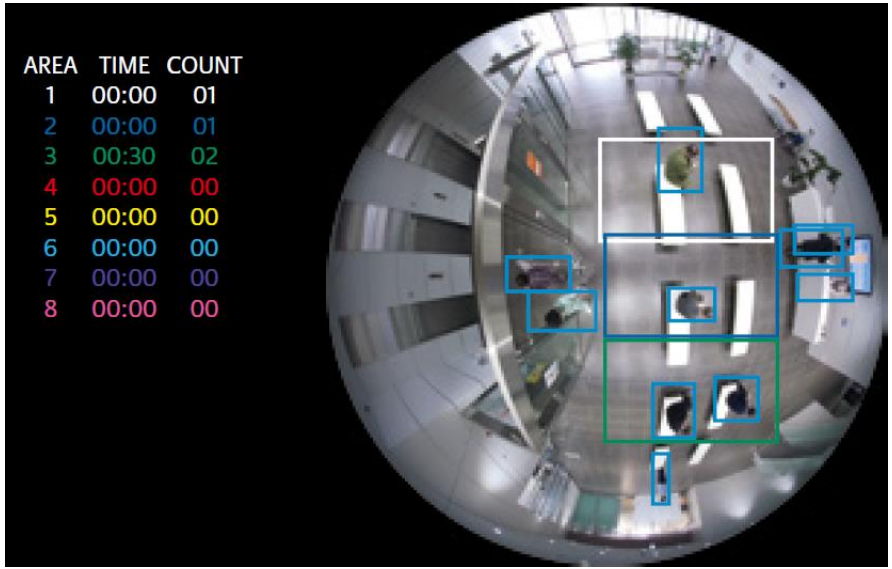
Pre-installed applications: People Counting

People Counting offers 2 modes to count up number of people.

Cross line counting

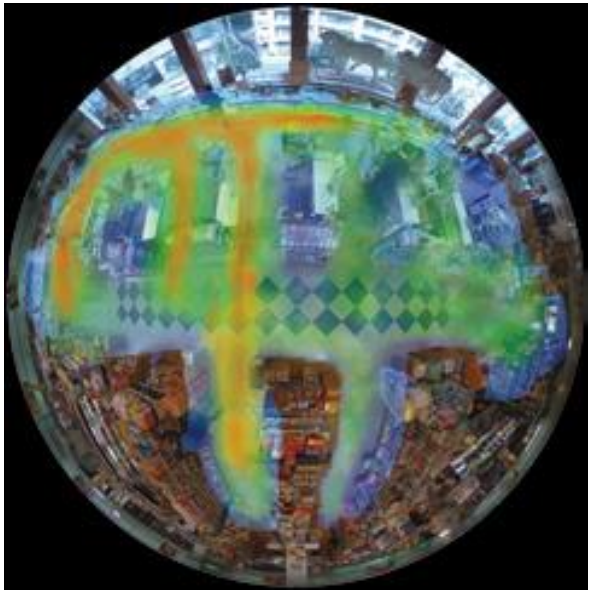


Area counting



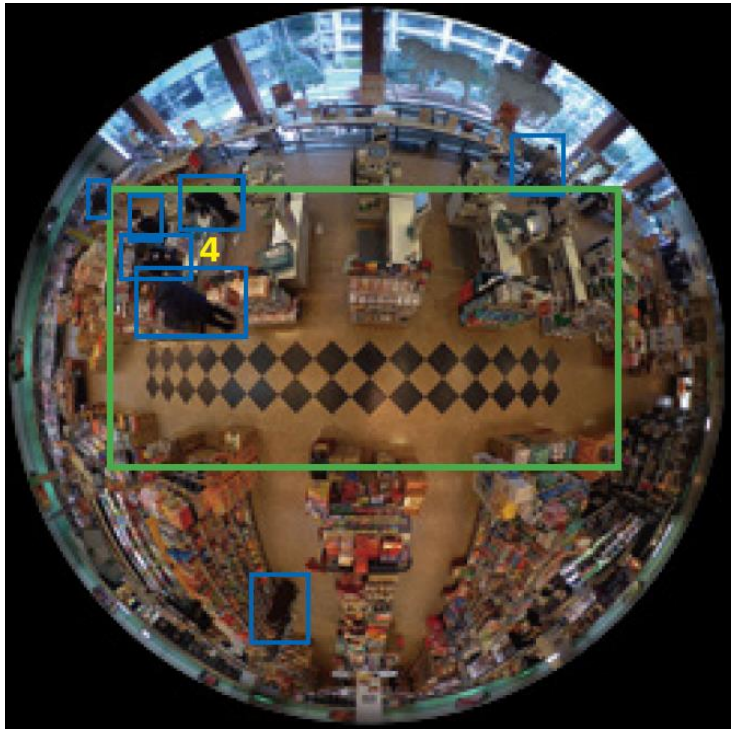
Pre-installed applications: Heat map

Heap map counts up both passing and loitering people.

Passing	Loitering
	

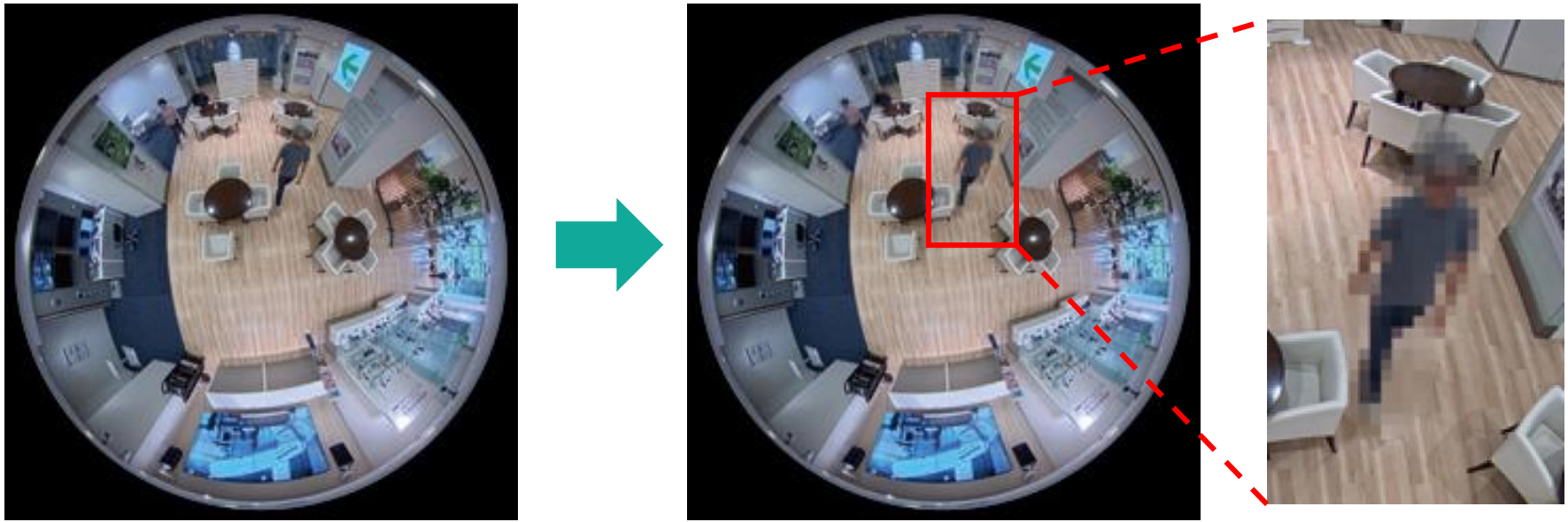
Pre-installed applications: Occupancy detection

Detecting congestions by counting number of people in specific area in specific period of time.



Pre-installed applications: AI Privacy Guard

Automatically pixelates the entire face or the figure of a person captured by the camera in real time.

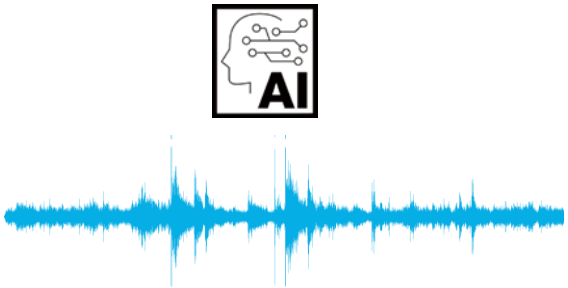


Detecting and classifying suspicious sound

Detecting and classifying suspicious sound as Gunshot, Yell, Vehicle horn, and Glass break.

Example: Gunshot sound

Gunshot sound comes to microphone (cameras built-in or external one)*



AI software (in AI network camera) detects and classifies the specific sound among other noises.

Sends alarms to VMS and/or operators etc..

* Upon camera models

Supporting industry standard protocols

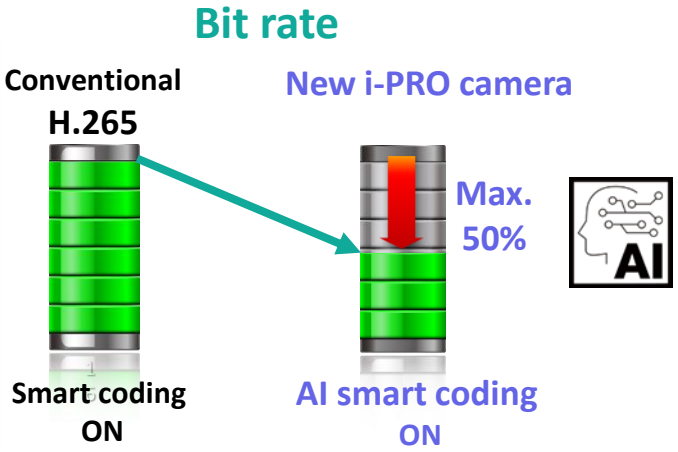
Supporting industry standard protocols such as ONVIF, MQTT*, and H.265/H.264 for integrating/connecting with other devices and systems.

ONVIF is a trademark of ONVIF, Inc.

*May require updating firmware into the latest version.

AI Smart Coding

Optimizing video compression to conserve network bandwidth and server storage capacities.



Reduces bit rate by controlling the image quality of still areas, moving areas, and faces with AI engine.

i-PRO