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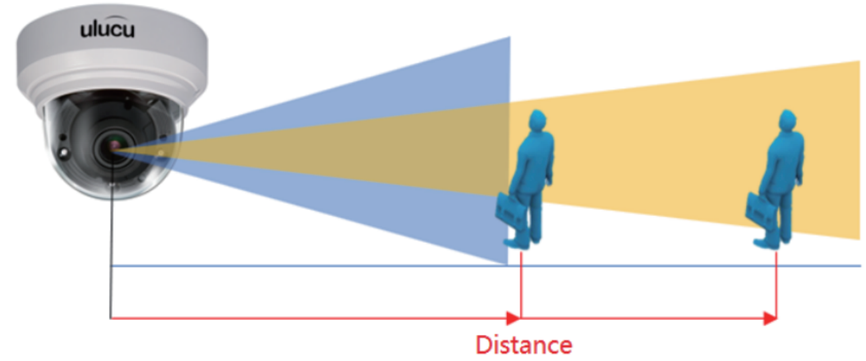
AI Camera

Fmix-D

Using deep learning algorithm chip, real-time detection, tracking and capturing the objects in motion and outputting the best images. The image detection features are millisecond-level response capability, also built-in human detection algorithm,analyzing the accurate number of customers visiting the store effectively as well as passby counting.

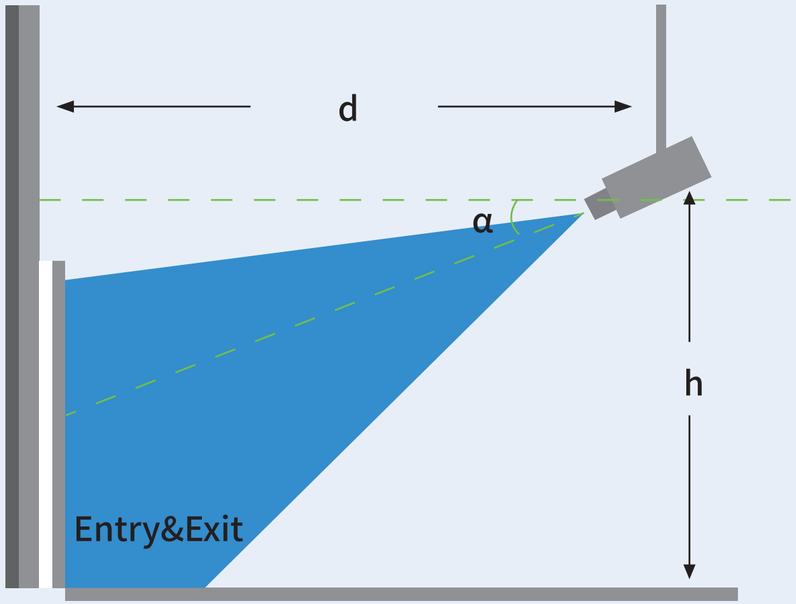
- Long distance image capture via different lens option
- Support SD card, max 128GB
- Support 1080p HD real-time preview
- Support DC12V/PoE power supply
- Support optical zoom, adjust more easier

People Counting Lens Selection Principle



Suggested Lens

Camera Model	Type	Height	Door Wide	Lens Model	Suggested Distance
Fmix	2MP DOME	2-3.5m	<4m	2.8 - 12mm	2 - 6 m
				7 - 22mm	5 - 10.2 m



Height of Installation

- **d** Horizontal Distance From Camera To Entry&exit
- **h** Height From Floor To Camera
- **α** High Angle Of Camera

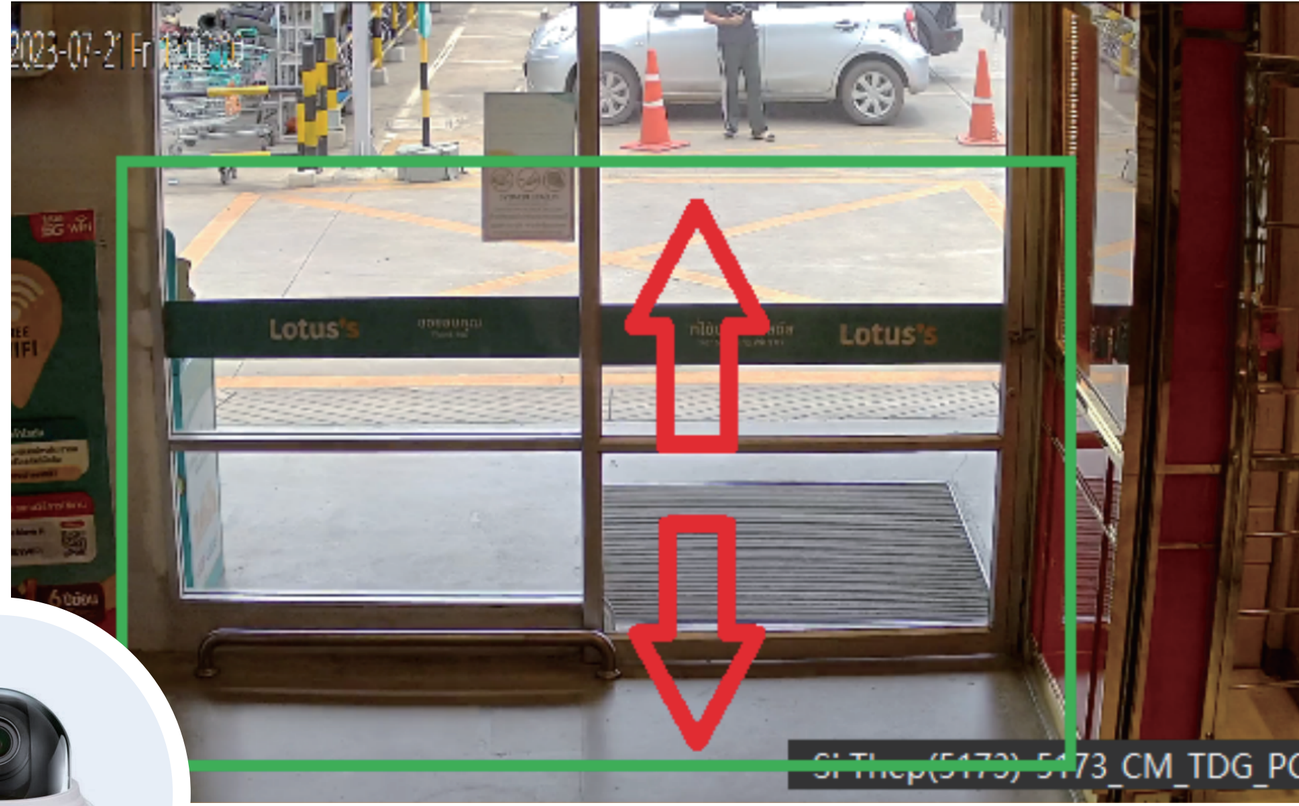
The formular between d and h: h = 0.18 * d + 1.5 (meter)
Please try to make h according to formular as much as possible.
Suggest real height = h ± 0.3m.

Specifications

Features		Details
Model		Fmix-D
Name		AI camera
Camera	Sensor	1/2.8" Progressive Scan CMOS
	Minimum illumination	Color：0.01 Lux @(F1.4,AGC ON)； White and black ：0.002Lux @(F1.4,AGC ON)
	Shutter	1 s~1/100,000 s
	Lens	M14, optical zoom (2.8~12 / 7~22mm)
	Aperture	F1.4
	Rotation Angle	Pan 355°、Vertical 90°
	3D Noise Reduction	Support
	BLC	Support
	HLC	Support
Encode	Video	H.265/H.264
Image	Main Stream	1920*1080 @25fps
	Sub Stream	640*480 @25fps
	Settings	Saturation, brightness, contrast
Interface	Communication	1 RJ45 10M / 100M self adaptive Ethernet port
	Storage	Support TF card, Max 128GB
	Audio	1 Built-in microphone pick up. Support 3rd speakers
Network	Interface Protocol	ONVIF
	Network Interface	TCP/IP, HTTP, HTTPS, FTP, DHCP, DNS, RTSP, NTP, UDP, SSL/TLS
Others	Working Temperature and Humidity	Temperature: -30°C~60°C Humidity: less than 95% (No condensation)
	Power Supply	DC12V /PoE (802.3af/at)
	Consumption	11W MAX
	IR	20m
	Dimension (mm)	143*143*114
	Weight	655g

Camera View - Good Example

Facing the entry horizontally
Customer flow is up-down only at entry





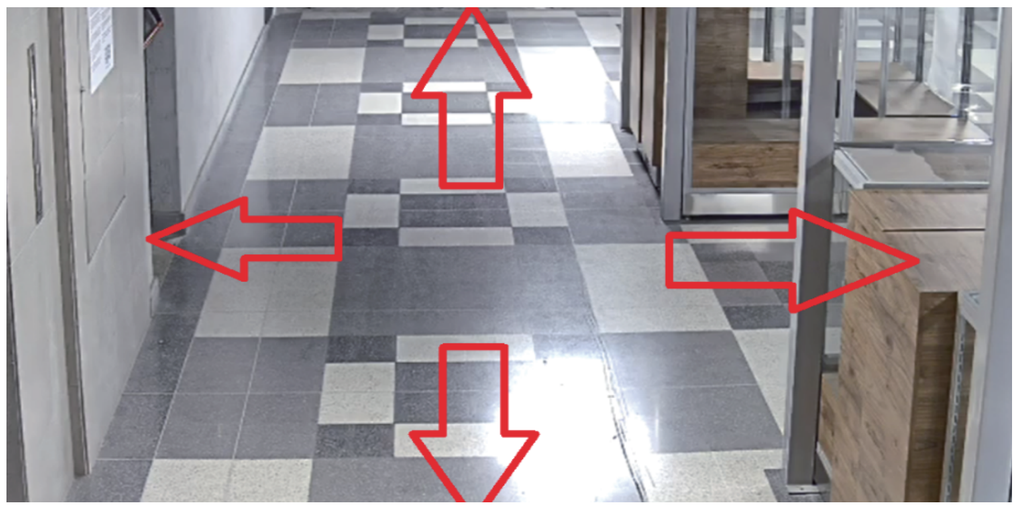


No block at entry
Height is in the range according to the formular

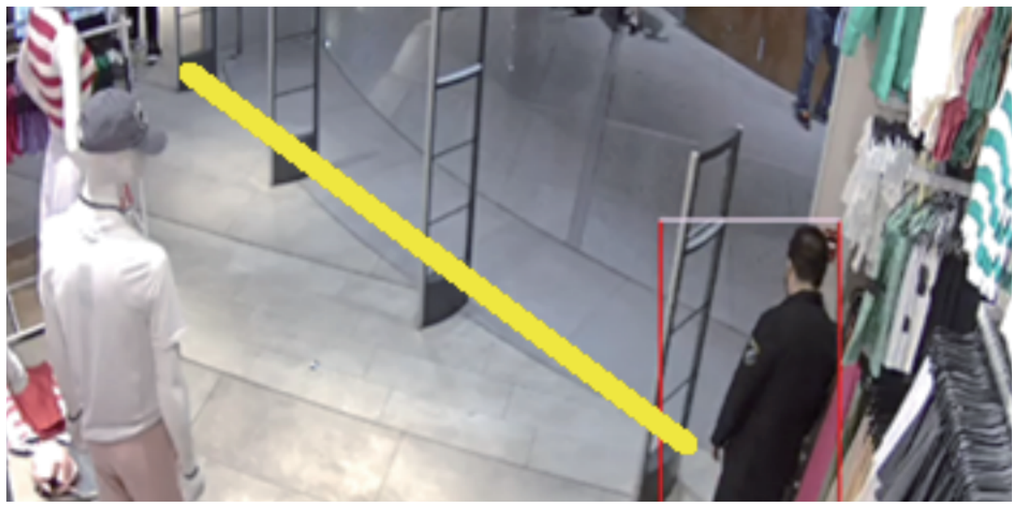
Camera View - Bad Example



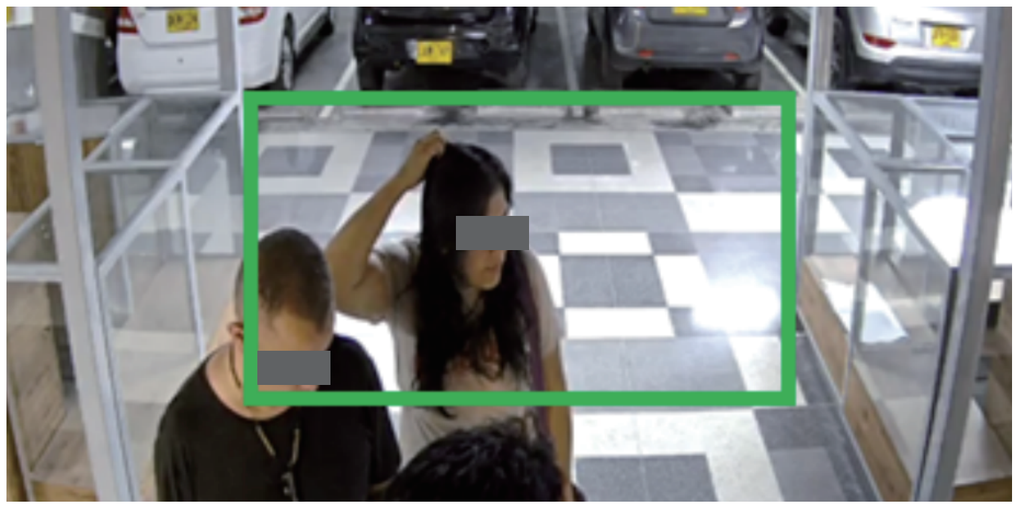
Entry blocked



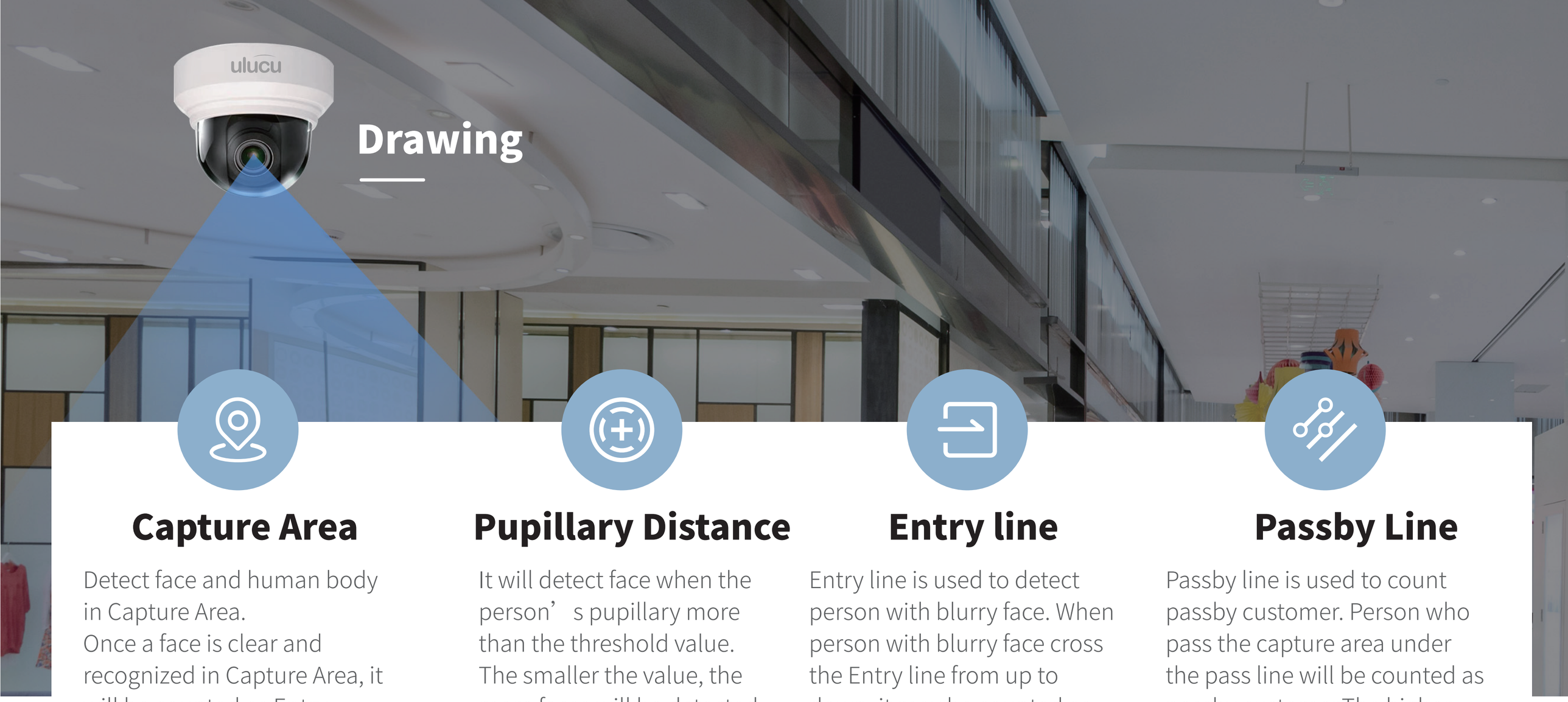
Customer flow from different directions



View is not horizontal



Camera is too close to entry



Drawing

Capture Area

Detect face and human body in Capture Area.
Once a face is clear and recognized in Capture Area, it will be counted as Entry Customer. The larger capture area, more customer will be detect. It is suggested to cover entry area only,
Entry line and pass line must be in the Capture Area.

Pupillary Distance

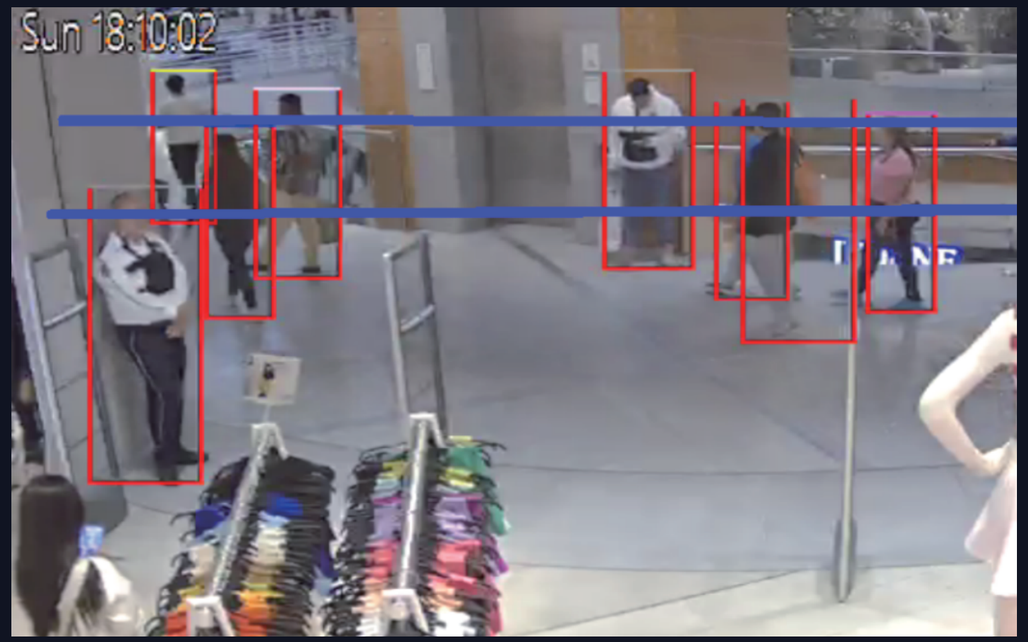
It will detect face when the person’ s pupillary more than the threshold value. The smaller the value, the more faces will be detected. Suggested value 30-35.

Entry line

Entry line is used to detect person with blurry face. When person with blurry face cross the Entry line from up to down, it may be counted as Entry Customer.

Passby Line

Passby line is used to count passby customer. Person who pass the capture area under the pass line will be counted as passby customer.The higher pass line in Capture Area, the more passby customer will be counted.

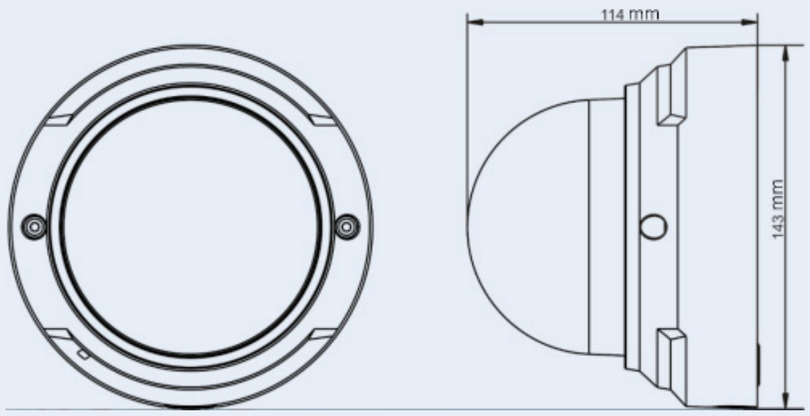


Rise pass line to count more by-pass customer



Capture area is too large. Person who do not cross the pass line, still be counted as entry customer, because the clear face is recognized in the capture area.

Dimension



Certifications

CE/FCC / RoHS / WEEE / REACH / UL

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