



ACCURANCE OV-102

Anti-tailgating system
for secured access



The OPTEX Accurance OV-102 is an anti-tailgating system that uses advanced image sensing technology to track people's shapes with high accuracy. This unique system can identify complex movements and precisely count the number of individuals entering a secure area, preventing unauthorized access through tailgating.



Features include:

Door cancel function

Ignore door movement on installation side of detection unit

Workability

Easily install on existing doors

Detection area adjustability

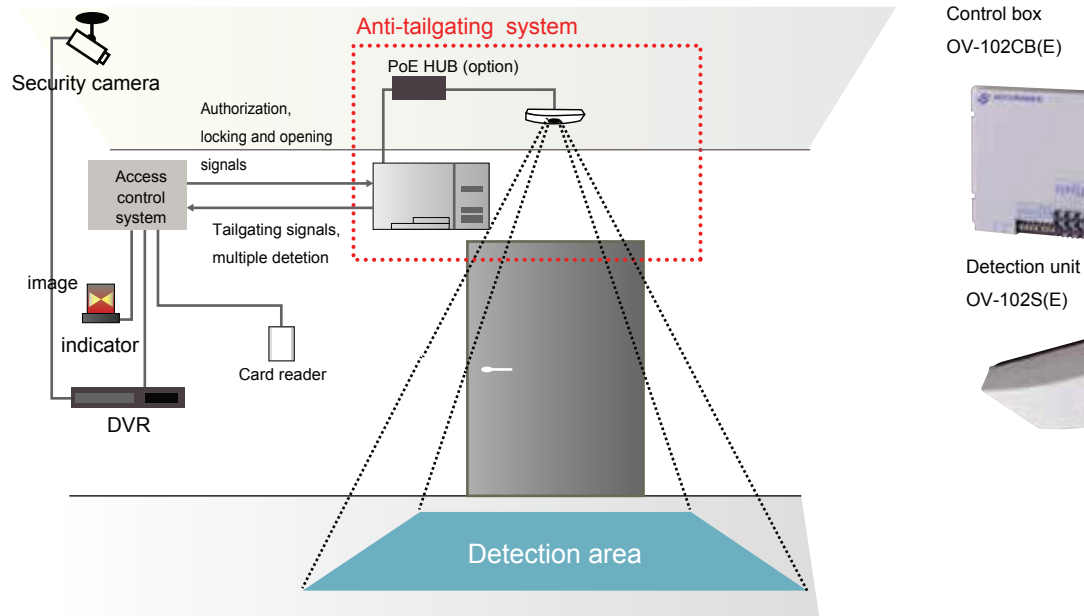
Detection area can be adjusted after installation of product

Sensitivity adjustability

Sensitivity can be adjusted after installation



System configuration



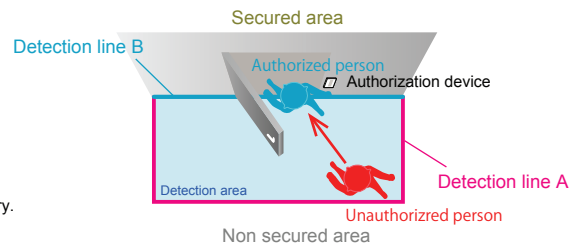
Basic scenario

Tailgating entry

Generate output when unauthorized person follows authorized person and pass **detection line A** (pink line) -> **detection line B** (blue line) in order.

Output

Tailgating



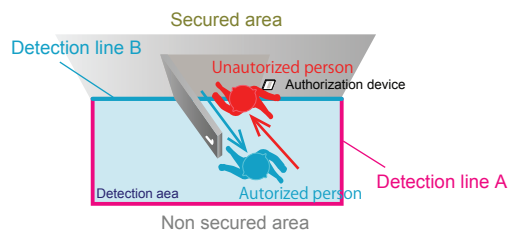
Another set of the system is required for two way entry.

Cross entry

Generate output for unauthorized person entry when authorized person exits.

Output

Tailgating

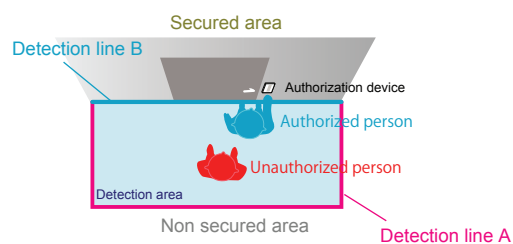


Multiple detection

Generate multiple detection output when multiple people stay in the detection area.

Output

Multiple detection



Features

Unique and various functions

- Door cancel function
Ignore door movement on installation side of detection unit.
- Workability
Install on existing door
- Detection area adjustability
Detection area can be adjusted after installation of detection unit.
- Sensitivity adjustability
Sensitivity can be adjusted after installation.

System scalability

- WEB browser setting
Setting can be adjusted by WEB browser through LAN. (No special set - up software required)

Performance for ambient light

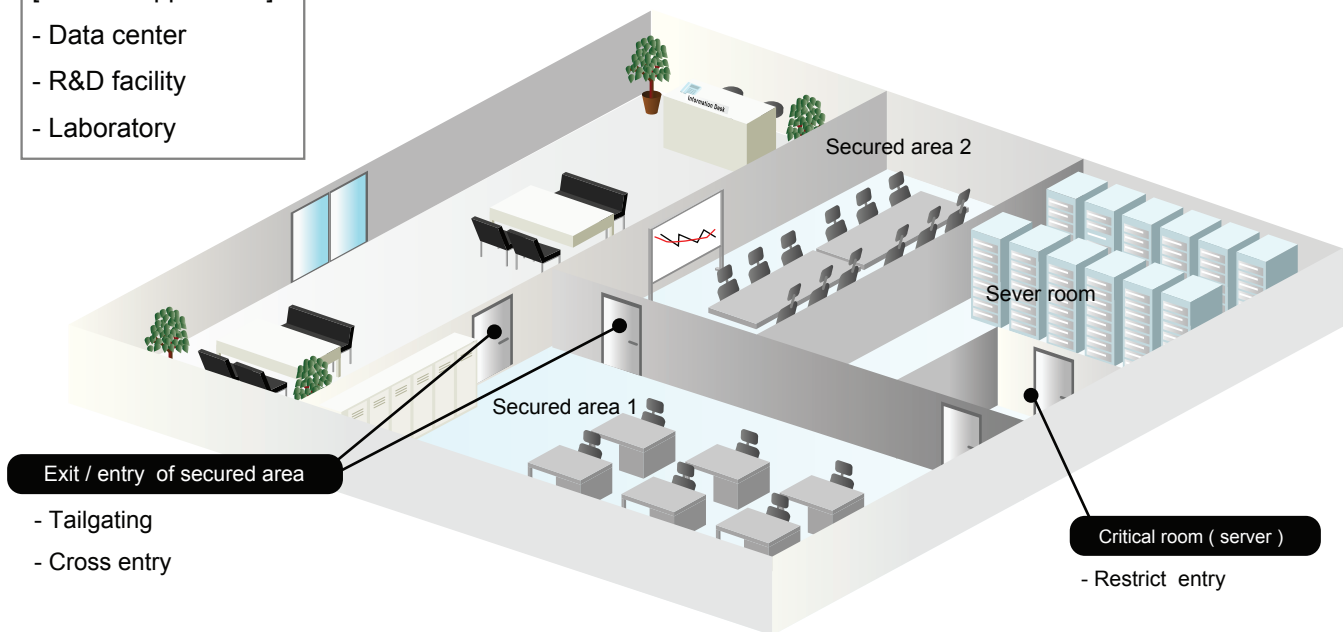
- Stable performance for Illuminance change
Operating illuminance.10 to 20,000 lux

Versatile operation by security level or application

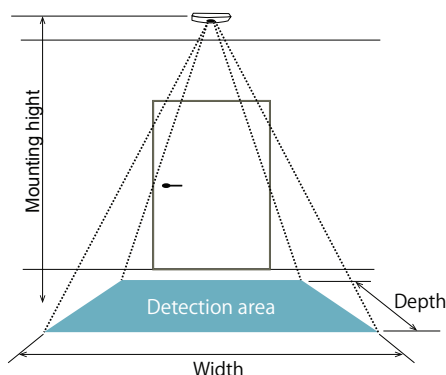
Accurance OV-102 fits various applications by security level of area or zoning.

[Case of application]

- Data center
- R&D facility
- Laboratory

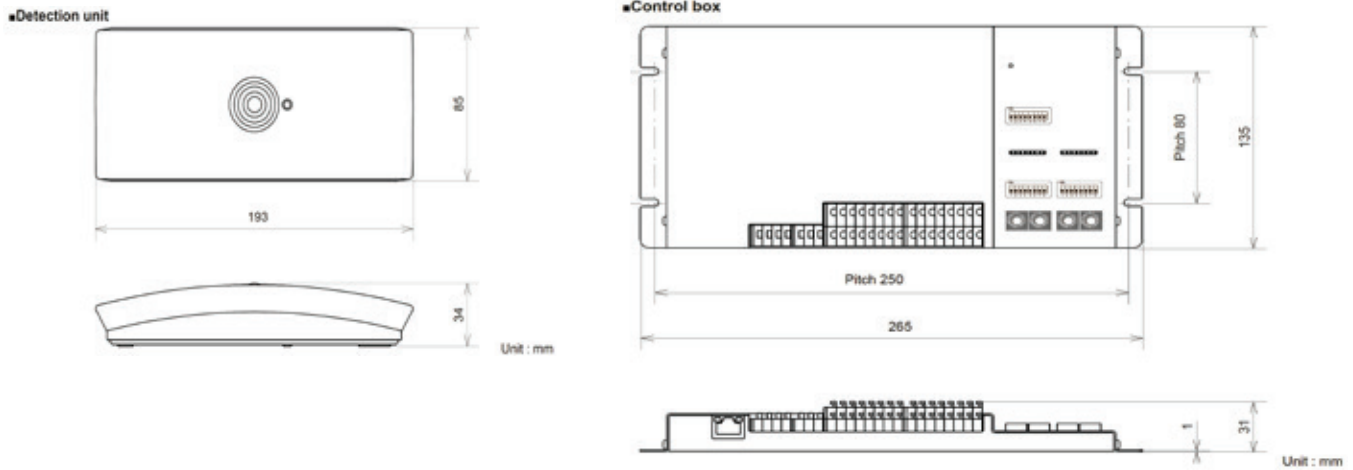


Detection area chart



unit : mm		
Mounting hight	Depth	Width
2400	1200	1900
2500	1400	2000
2600	1600	2200
2700	1700	2300
2800	1900	2400
2900	2100	2500
3000	2200	2700
3500	3100	3300
4000	4000	4000

Dimensions



SPECIFICATIONS

Items	Specifications		Remarks
Detection Method	Vector Focusing Method		
Detection Accuracy	> 95% (by own criteria)		
Supply Voltage	Power over Ethernet IEEE 802.3 af		
Warm-up time	Approx. 45 sec.		
Power Consumption	Control box	10 W max.	
	Detection unit	10 W max.	
Indicator	Control box	Green	Power, Authorization, Normal entry (lit)
		Red	Tailgating (lit) / Multiple detections (blinking)
		Green / Red	Warm-up (lit) / Trouble (blinking)
	Detection unit	Green	Power (lit) / Normal entry (blinking)
		Red	Tailgating (lit) / Multiple detections (blinking)
		Orange	Warm-up (lit) / Trouble (blinking)
Dimensions	Control box	265 × 135 × 31 mm	(W × H × D)
	Detection unit	193 × 85 × 34 mm	(W × H × D)
Weight	Control box	800 g	
	Detection unit	220 g	
Operating Temperature	0 to 50°C		
Operating Humidity only under no condensation	< 80% RH		only under no condensation
Operating Illuminance only the outline of an object is shown	100 to 20,000 lux *1		only the outline of an object is shown
Applicable Door Type	Manual Swing Door/Automatic Slide Door		
Install location	Control box	Wall / stationary	Interior only
	Detection unit	Ceiling	Interior only
Mounting Height	Detection unit	2.5 to 4.0 m *2	It may be limited by environmental conditions.
LAN wiring	CAT5e or larger		100 m max. in length
Ethernet	100Base-T(X)		Protocol : TCP/UDP(IPv4), ARP, ICMP or HTTP
Input terminal *3	Authorization	N.O./N.C. no voltage Wiegand	26/37bit
	Door open	N.O./N.C. no voltage	Use supplied magnet switch when disable to get
	Door locked		
	Disable output *4		le Tailgating①,② and Multiple detections
Output terminal *3	Output reset	MOS FET relay N.O./N.C. no voltage 30 V DC 0.2 A or less (Resistibility load)	Stop the output of Tailgating ① and ②
	Tailgating①		Variable timer 0.2 to infinity
	Tailgating②		Pulse output for every entry
	Normal entry		One shot/Timer switching
	Number of pass		Pulse output for authorization
	Unlock command		Pulse output for authorization
	Authorization number		Continuous output during multiple detections *5
	Multiple detections		Output when disable to detect
	Error		

*1 OV-102 always requires 100 lux or more.

*2 Maximum width of door opening is 2 m when mounting at 2.5 m high.

*3 Input/output relays can be selected N.O./N.C. by the dipswitch.

*4 "Disable output" is recommended to use for an entrance with carriage or luggage. They may make a false detection.

*5 Multiple detections must be ON by the dipswitch settings.

The images taken by this product are used only for the judgment processing performed inside this product and are deleted immediately after such processing.