Dimensions

■Detection unit

Unit : mm

■Control box

Pitch 250

265

Pitch 80   135

31

Unit : mm

Specifications

■Detection unit / Control box

Item		Specifications	Remark
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) Communication trouble (alternative blinking)
	Detection unit	Green	Power (lit) / Normal entry (blinking)
		Red	Tailgating (lit) / Multiple detections (blinking)
		Orange	Warm-up (lit) / Trouble (blinking)
		Green / Red	Communication trouble (alternative blinking)
Dimensions	Control box	265 x 135 x 31 mm	(W × H × D)
	Detection unit	193 x 85 x 34 mm	(W × H × D)
Weight	Control box	800 g	
	Detection unit	220 g	
Operating Temperature		0 to 50° C	
Operating Humidity		< 80% RH	only under no condensation
Operating Illuminance		100 to 20,000 lux [*1]	only the outline of an object is shown
Applicable Door Type		Manual Swing Door/Automatic Slide Door	
Installation 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]		Disable Tailgating①,② and Multiple detections
	Output reset		Stop the output of Tailgating ① and ②
Output terminal [*3]	Tailgating①	MOS FET relay N.O./N.C. no voltage 30 V DC 0.2 A or less (Resistibility load)	Variable timer 0.2 to infinity
	Tailgating②		
	Normal entry		
	Number of pass		Pulse output for every entry
	Unlock command		One shot/Timer switching
	Authorization number		Pulse output for authorization
	Multiple detections		Continuous output during multiple detections [*5]
	Error		Output when disable to detect

*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.

OPTEX

Anti-tailgating system

ACCURANCE OV-102

Make your access more sure..

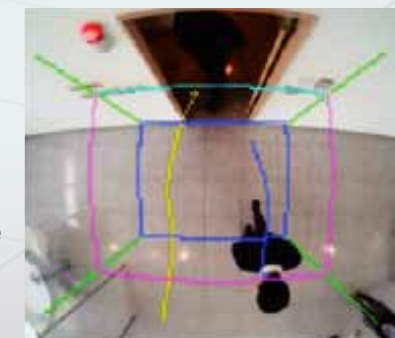

ACCURANCE makes your access control system
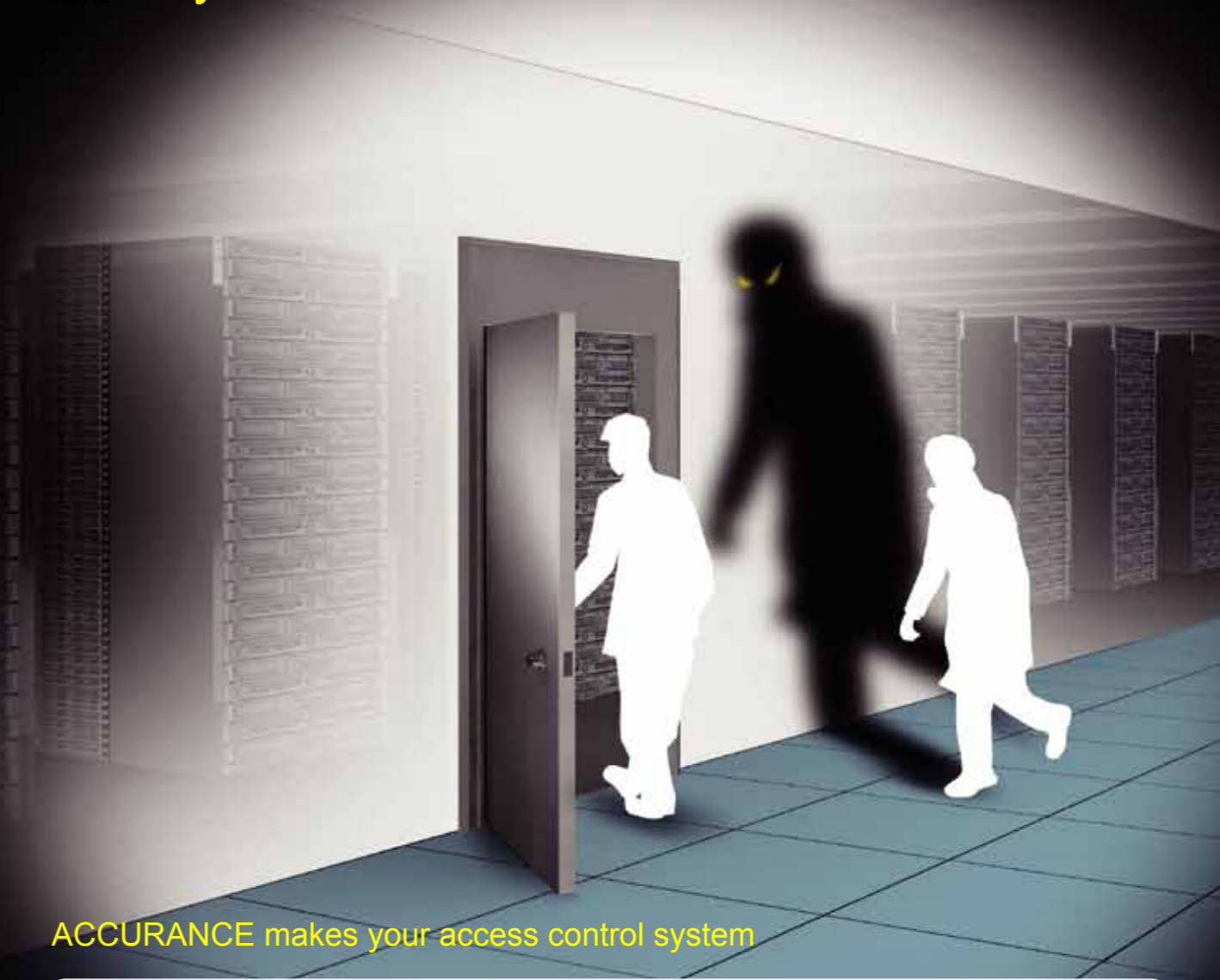
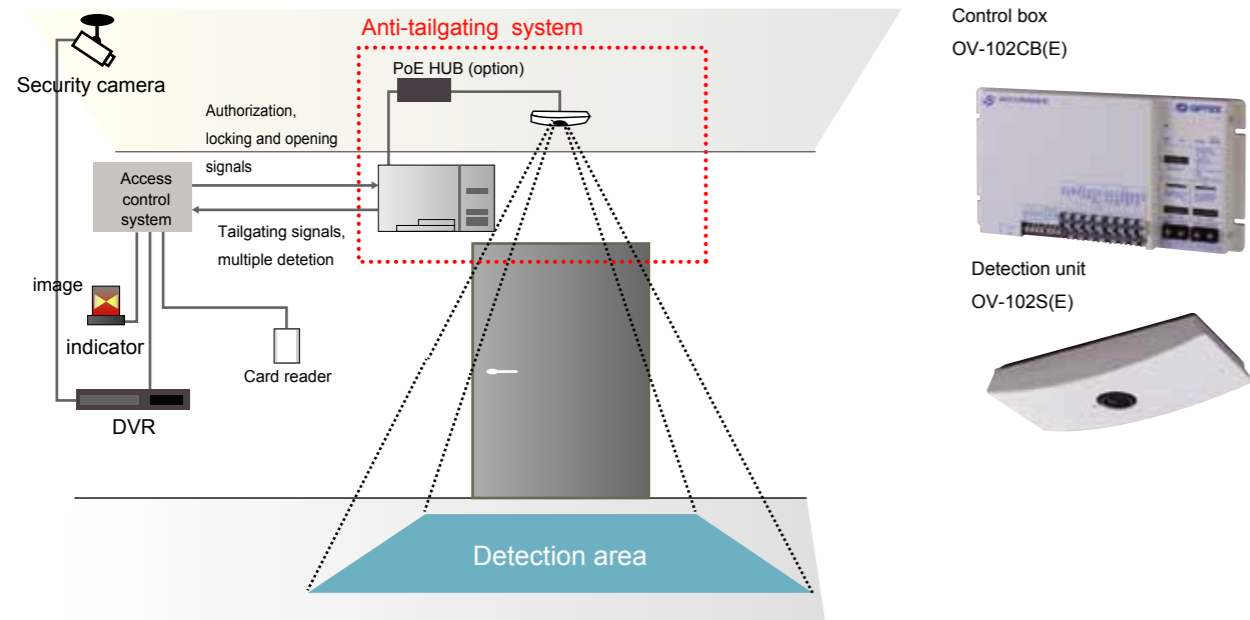Unique algorithm for anti-tailgating detection
[Vector focal method]
The Accurance OV-102 grasps and tracks a shape of human sterically by a unique image sensing technology. The system can recognize complicated movement and the number of people at high rate and accuracy.
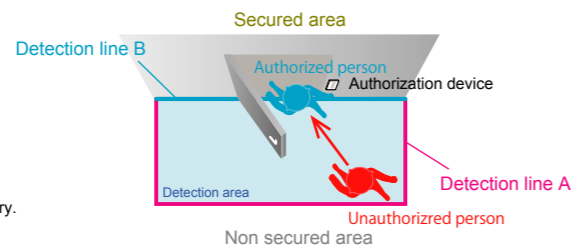
System configuration

Anti-tailgating system

Security camera

Authorization, locking and opening signals

Access control system

Tailgating signals, multiple detetion

image

indicator

Card reader

DVR

PoE HUB (option)

Detection area

Control box
OV-102CB(E)

Detection unit
OV-102S(E)

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.
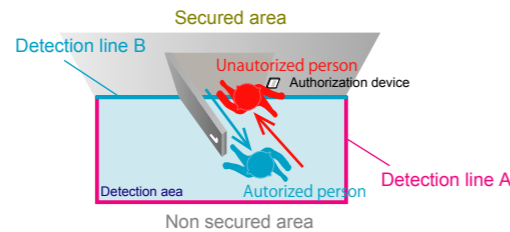
Output
Tailgatiog

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

Secured area
Detection line B
Authorized person
Authorization device
Detection area
Detection line A
Unauthorizred person
Non secured area

Cross entry

Generate output for unauthorized person entry when authorized person exits.

Output
Tailgatiog

Secured area
Detection line B
Unautorized person
Authorization device
Detection aea
Autorized person
Detection line A
Non secured area
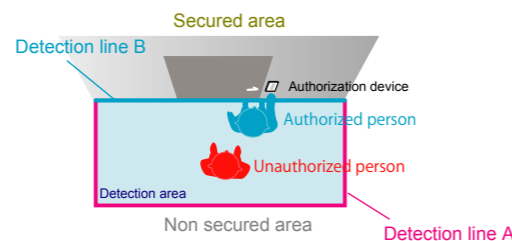
Multiple detection

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

Output
Multiple detection

Secured area
Detection line B
Authorization device
Authorized person
Detection area
Unauthorized person
Non secured area
Detection line A

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)

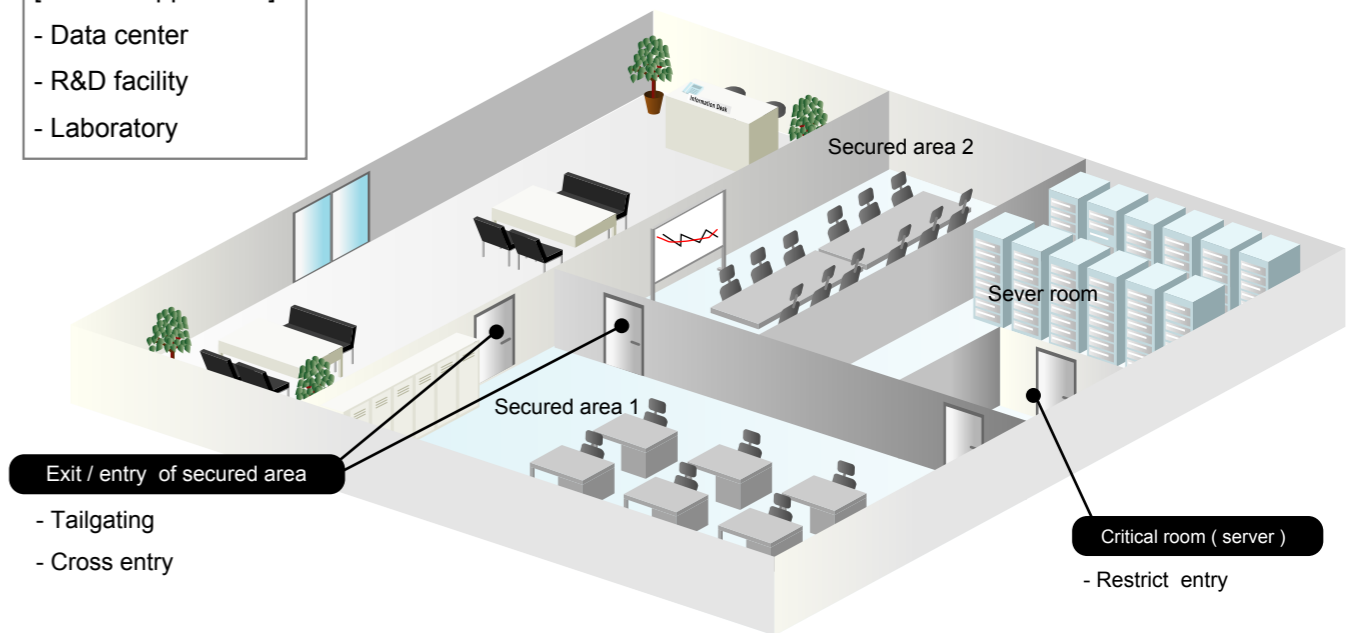### Performance for ambient light

- 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.
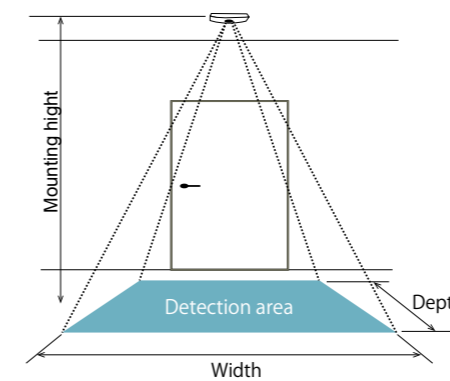
[Case of application]
- Data center
- R&D facility
- Laboratory

Secured area 2

Sever room

Secured area 1

Exit / entry of secured area
- Tailgating
- Cross entry

Critical room (server)
- Restrict entry

Detection area chart

Mounting hight

Detection area

Depth

Width

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