Response options

Annunciator – An alarm may be triggered such as a bell, buzzer or a pre-recorded voice clip
Image Capture – Take snapshots of the tailgating offence
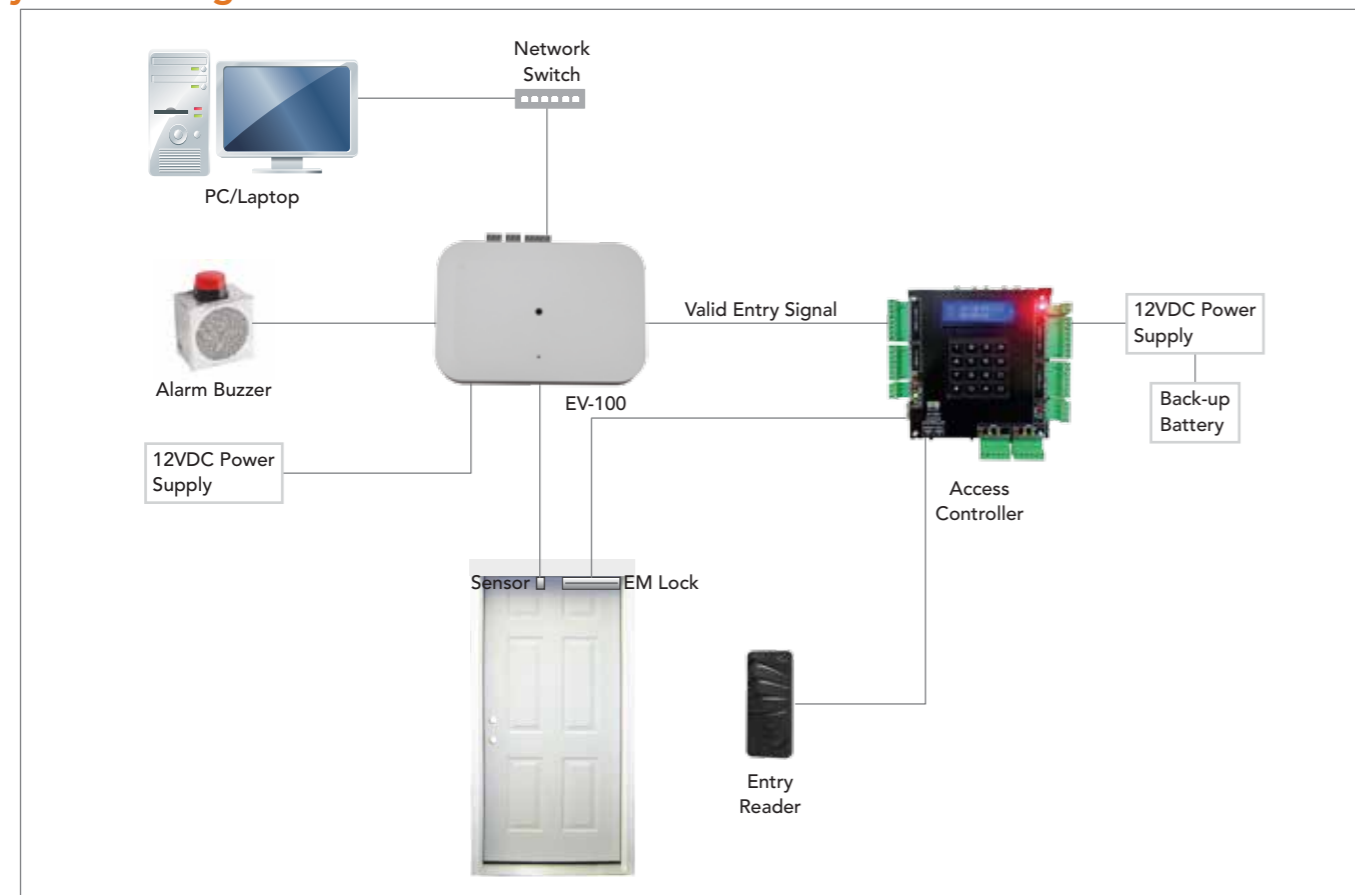**Video Recording –** Record a short clip of the tailgating offence

Application scenarios

- ▶ High-security offices, institutes and organizations
- ▶ Bank server rooms
- ▶ Casinos
- ▶ Government or military infrastructure
- ▶ University laboratories (chemical & biomedical)
- ▶ Public facilities like gyms

Specifications

Power	Standard 12V DC
Inputs	Door sensor – recommended voltage is 5V or 12V
	Valid Entry – recommended voltage is 5V or 12V
Output	Annunciator – recommended voltage is 12V, can drive up to 24V
Connectivity	Ethernet / WIFI
Environment	Designed for indoor operation. Outdoor operation may be sub-optimal
Compatibility	Any controller that can provide valid entry signal
Dimensions	200 cm (L) x 135 cm (W) x 40 cm (H)

System configuration

www.elid.com

Trusted by Professionals Since 1989

ELIDEye

AI Powered Visual Anti-Tailgate System

The ultimate purpose of an access control system is to ensure that access to a secure area is restricted to "authorized" personnel only. Tailgating is the most prevalent security risk that defeats this purpose, consequently jeopardizing the privacy/safety of the information/people in a secure area. Unfortunately, most access control systems are still not designed to tackle this problem. ElidEye is an advanced anti-tailgate system with artificial intelligence that can detect and alert against tailgating offences, hence providing enhanced security.

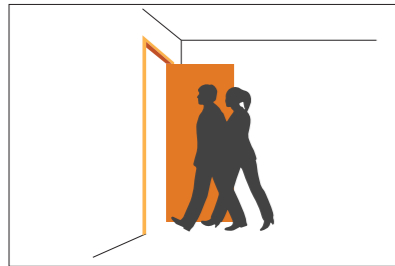we make your world secure

How it works

Once installed, ElidEye autonomously trains and adapts itself, learning detailed information about the environment and appearance of people within the field of view. This is done by applying state-of-the-art computer vision and machine learning algorithms to the video feed acquired by the built-in camera module. Subsequently, ElidEye detects and tracks all people within the field of view, thereby determining whether a person is entering or exiting the secure area. It checks the number of entering people against the number of valid entries and permits only a single authorized person to enter between a door open-door close cycle. If the aforementioned rule is violated, the system triggers an alarm. Equipped with a powerful quad-core processor, ElidEye is able to perform all these complex operations and precisely detect tailgating, piggybacking and crossing, in real-time.
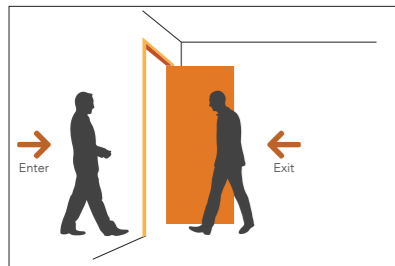
There are three types of tailgate offences

Tailgating
Act of an unauthorized person follows an authorized person to a restricted area without the consent of the authorized person.

Piggybacking
Happens when a person tags along with another person who is authorized to gain entry into a restricted area, or pass a certain checkpoint
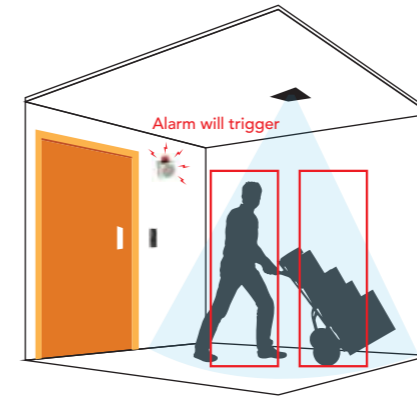
Crossing
When an authorized person badges at the exit reader to leave a secure area, with or without his/her consent, an unauthorized person takes the opportunity to enter the secure area before the door closes.
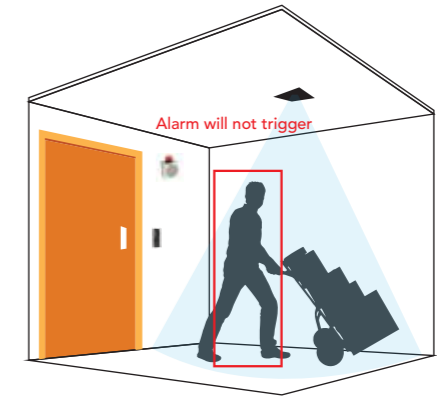
Features & Benefits

▶ **Tailgate Detection:** Protection against various security breach scenarios such as tailgating, piggybacking and crossing

▶ **Enhanced Security :** Provides a high level of security by ensuring only a single person can enter each time an authorized personnel's card is swiped/badged

▶ **Affordable :** AI-powered rather than using expensive mantrap vestibules, turnstiles or electronic sensor beams

▶ **Non-intrusive:** Mounted on the ceiling. Employees are unaware of its existence except when an alarm is triggered in response to a tailgating offence

▶ **Easy Installation and Compatibility:** Effortless integration with most access controllers, requiring only the valid entry and door sensor signals

▶ **Enforces proper card/fingerprint usage :** Encourages employees to adhere to proper access control protocols

▶ **Low maintenance costs:** Unlike traditional anti-tailgate systems, there is no hardware that is subject to wear and tear and may require repair/maintenance

▶ **Stand-alone system:** Operates with full autonomy. No human interaction/intervention required. No control or monitoring is required from a PC

Highlight #1

ElidEye is able to differentiate humans from other moving objects. Therefore, when an employee walks in with a trolley, stroller or luggage, it will only detect the employee. It will not falsely detect the moving trolley as another person.
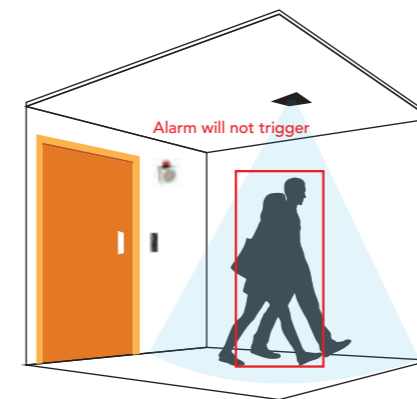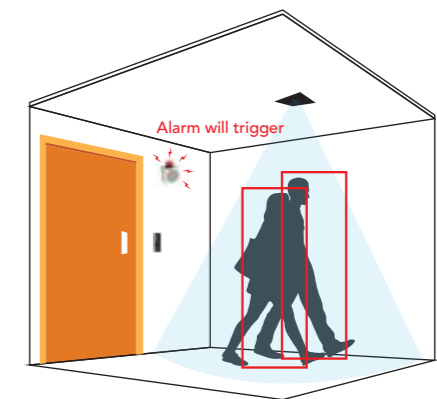
Standard Anti-Tailgate System — ElidEye

Highlight #2

During piggybacking, two or more people move together closely. It is difficult to isolate and detect the exact number of people during piggybacking. ElidEye has superior ability to detect precise locations of people even if they are close to each other. This feature enables ElidEye to effectively detect piggybacking.
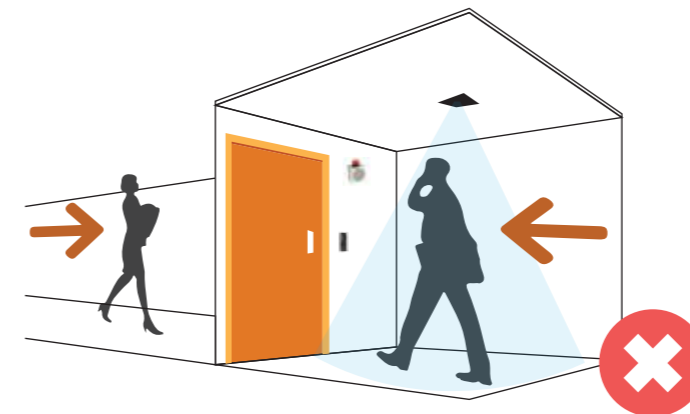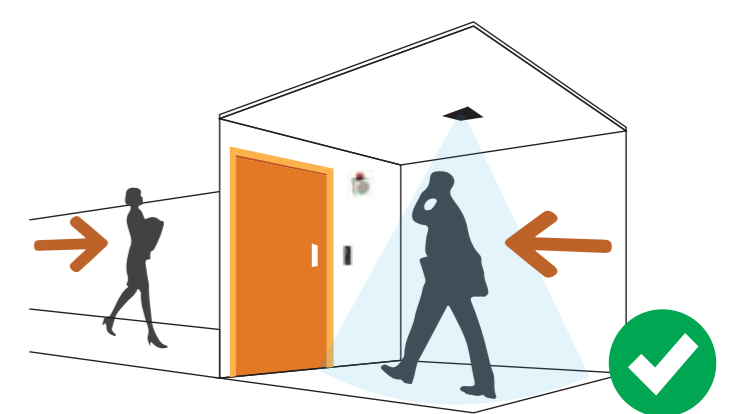
Standard Anti-Tailgate System — ElidEye

Highlight #3

ElidEye is able to track the movement of people. Therefore, it can differentiate between entering and exiting people. It is suited for detecting crossing. Alarm will not trigger if one person enters and another person exits the secure area at the same time.

Standard Anti-Tailgate System does not allow one person enters and another person exits at the same time

ElidEye allows one person enters and another person exits at the same time