



VEHICLE ACCESS

An excellent way to improve parking security



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Easy, cost-effective ways to improve parking lot security

Automated vehicle access systems are a very important and highly visible part of any perimeter security solution. These systems manage access of approved vehicles into site parking lots while immediately denying access to any unauthorized vehicles. This not only delivers increased operational efficiency. It also improves parking security as barriers provide an excellent visual, physical and psychological deterrent.

Effective vehicle access systems provide an improved sense of safety for staff, tenants and approved users as they provide secure and easy access to parking spaces. They also mean less reliance on manned guards for this parking lot security tasks, reducing lifecycle costs.

Overview of vehicle access systems

Our range of vehicle access systems feature AXIS License Plate Verifier automatic license plate recognition (ALPR) analytics embedded into a purpose-built Axis network camera. The systems control access of vehicles into off-road areas such as parking lots and are suited for two usage scenarios:

- > Vehicle entrance and exit: small, camera-based system handles all steps, i.e.: vehicle image capture, vehicle list management, access decisions and barrier control
- > Vehicle access control: bases access decisions on factors such as day-of-week, time-of-day, different alternative credential types, etc. as it also includes integrated access control hardware and software





Vehicle entry and exit

Control which vehicles access your parking lot — simply, efficiently and with precision.



This easy, cost-effective standalone vehicle entry and exit system is ideal for small- to medium-sized sites with requirements on convenience, high throughput and minimal vehicle list updates. A small, camera-based system, it automatically manages access by verifying license plates against lists of up to 1000 authorized and 1000 unauthorized vehicles. It is configured through a web interface, which further enables quick, easy installation.

Highlights of our vehicle entry and exit system

- > ALPR system handles all entry decision steps, i.e.: vehicle image capture, vehicle list management, access decisions and barrier control
- > Automatically manages access by verifying license plates against lists of up to 1000 authorized and 1000 unauthorized vehicles
- > Easy to install, configure and deploy: self-contained system accessed via a web interface
- > Fully tested, validated and supported by Axis: purpose-built camera with embedded analytics
- > History of up to 1000 or up to 100 000 events include thumbnail images

Vehicle entry and exit topology

The system is available as separate components or as AXIS P1445-LE-3 License Plate Verifier Kit. In the AXIS P1445-LE-3 kit option, the camera comes delivered with settings already optimized for vehicle access application. The components are:

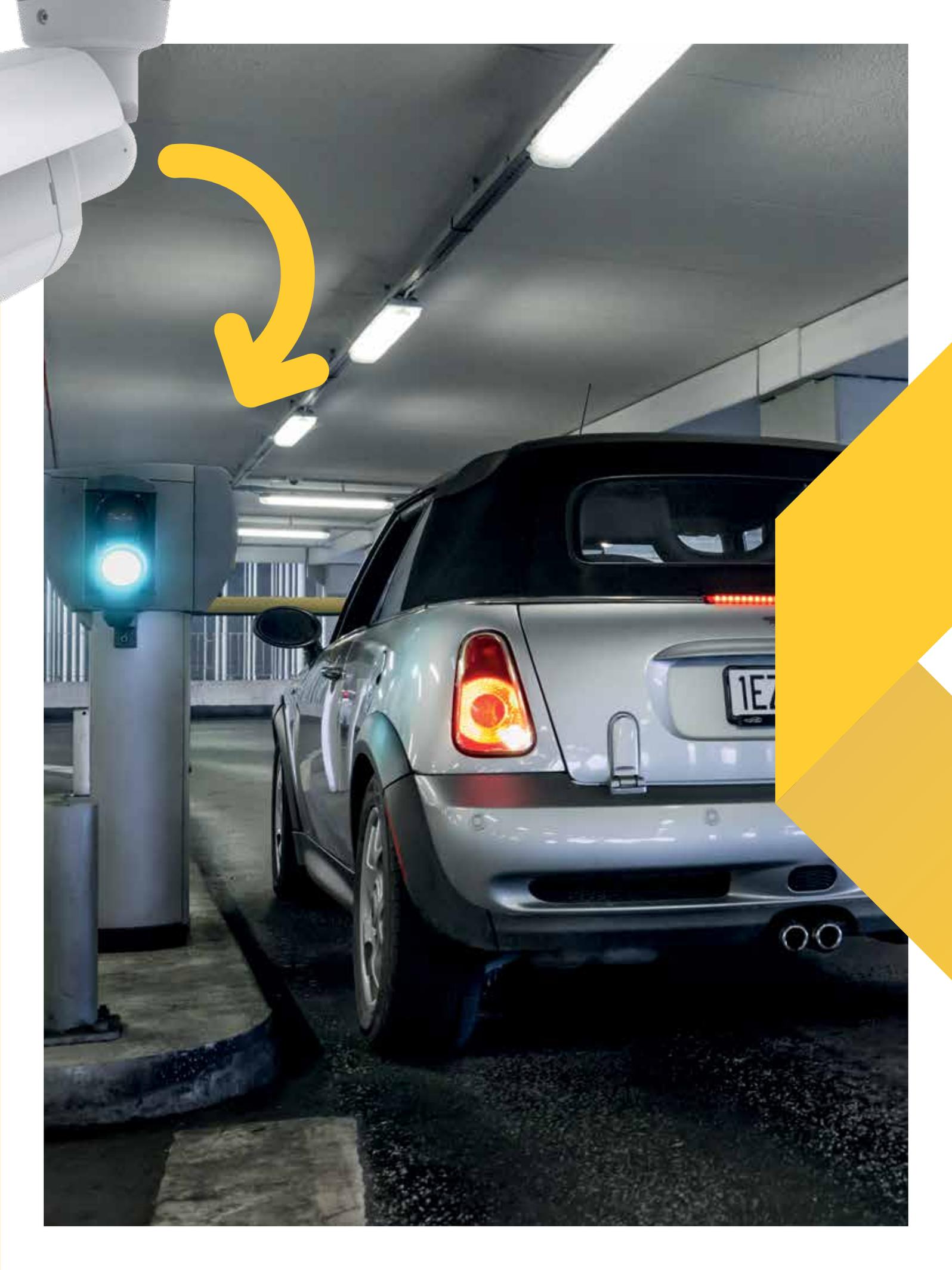
- > A purpose-built Axis network camera with OptimizedIR, impact resistance and a wide temperature range for installation in any environment
- > Pre-installed AXIS License Plate Verifier analytics: the ALPR application

There is built-in support for:

- > AXIS A91 Network I/O Relay Modules, which simplifies connection to a barrier in new installations
- > AXIS A1001 Network Door Controller, to expand into vehicle access control system



The vehicle entry and exit system offers two options to control the barrier: connect via the camera's internal I/O port or use an external relay module.





Vehicle access control

A dynamic system for adding access control features to your site.



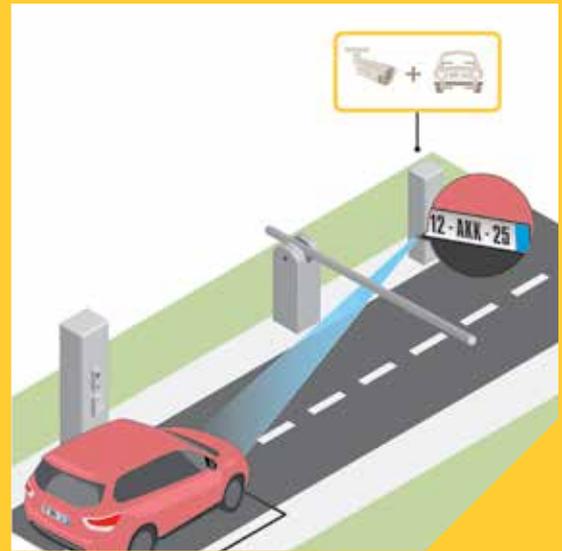
This system delivers advanced vehicle access control features where entry decisions can be based on factors such as: day-of-week, time-of-day, different credential types, etc. Searching its log of 30 000 events — or updating its lists of authorized and unauthorized vehicles — is quick and easy. Our vehicle access control system suits small, medium and large sites.

Highlights: vehicle access control system

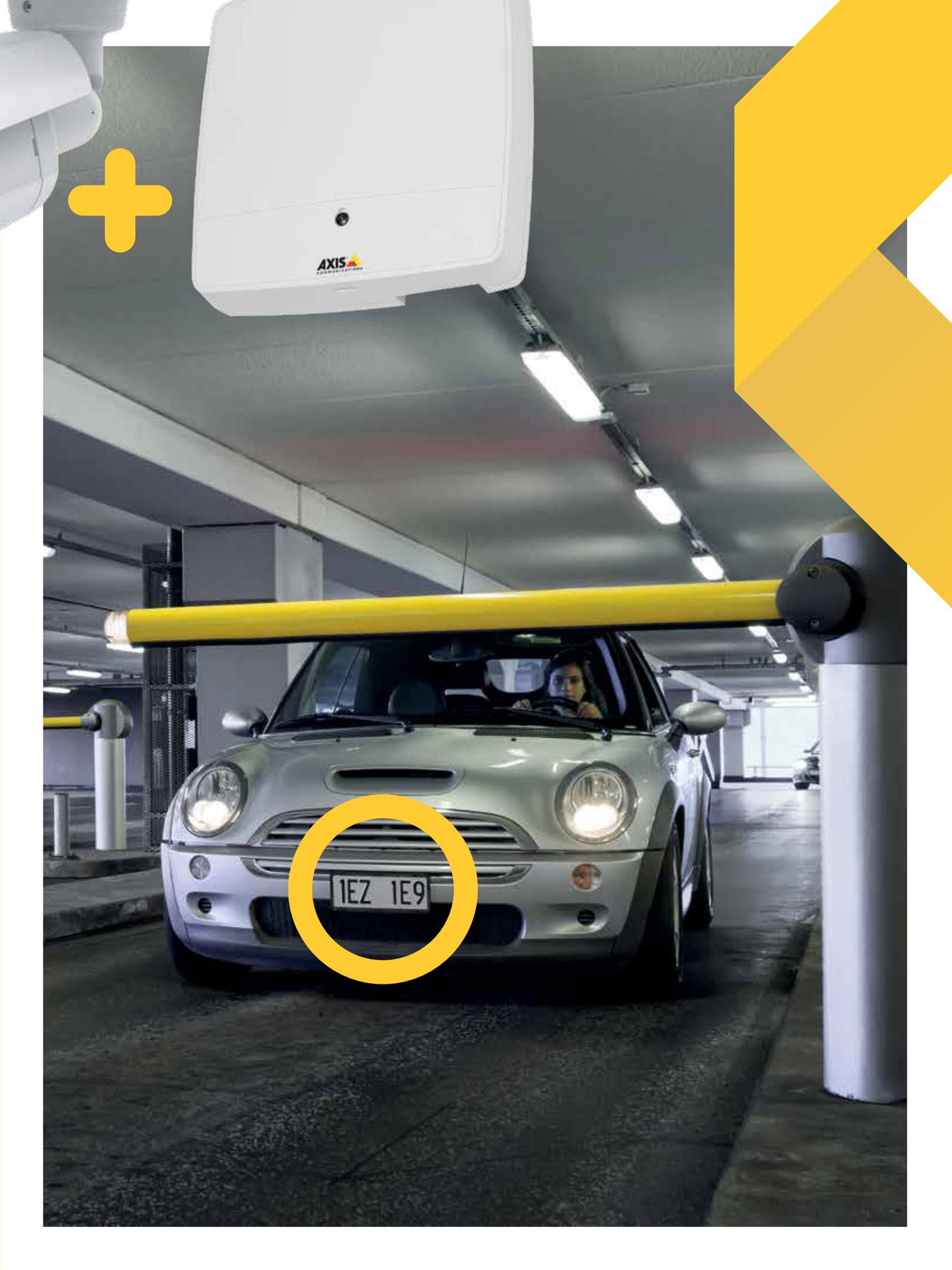
- > Manages vehicle access based on license plate verification together with additional entry factors, i.e. day-of-week, time-of-day, different credential types, etc
- > Easy to manage list of authorized and unauthorized vehicles
- > History of 30000 events include thumbnail images
- > Capacity for a maximum of 400 credentials, including multiple credential types
- > Easy to install, configure and deploy: self-contained system accessed via a web interface
- > Fully tested, validated and supported by Axis: purpose-built camera with embedded analytics

Vehicle access control system topology

- > AXIS P1445-LE-3 License Plate Verifier Kit: purpose-built network camera with OptimizedIR, impact resistance and a wide temperature range for installation in any environment
- > AXIS License Plate Verifier Analytics: automatic number plate recognition application manages entry and exit decisions for up to 1000 vehicles
- > AXIS A1001 Network Door Controller: edge-based, IP-based solution automatically manages access of vehicles based on verification of license plates and as well any rules for additional entry decisions factors
- > AXIS Entry Manager: free, embedded software in AXIS A1001 that can handle vehicle access for both employees and visitors or suppliers
- > Option available to use third-party software for adding features like those dual authentication, anti-passback, payment and revenue control, etc



This system features a controller to enable entry decisions based on additional access control factors, like rules and schedules.



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More about both systems

Quick and easy deployment

Both of our vehicle access systems are powered over Ethernet, can also power connected equipment and can be installed at the edge. This minimizes the need for extra cabling and provides for quick and easy installation and deployment. Just connect a camera running AXIS License Plate Verifier to an IP network, enter a list of approved license plates via a web interface and connect the barrier. That's all it takes. You can control the vehicle barrier in several ways: by connecting the camera's I/O port to the barrier's relay, by using an Axis I/O relay module or through an AXIS A1001.

Cost-effective operations

There is no cost for servers, bandwidth or external lighting for either vehicle access system. You also eliminate people-hours to man gates, thus freeing up resources for other tasks. And the AXIS P1445-LE-3 License Plate Verifier Kit costs significantly less than buying the software and camera separately.

Add complementary products

Axis offers the following complimentary products for managing visitors and as a backup for known vehicles:

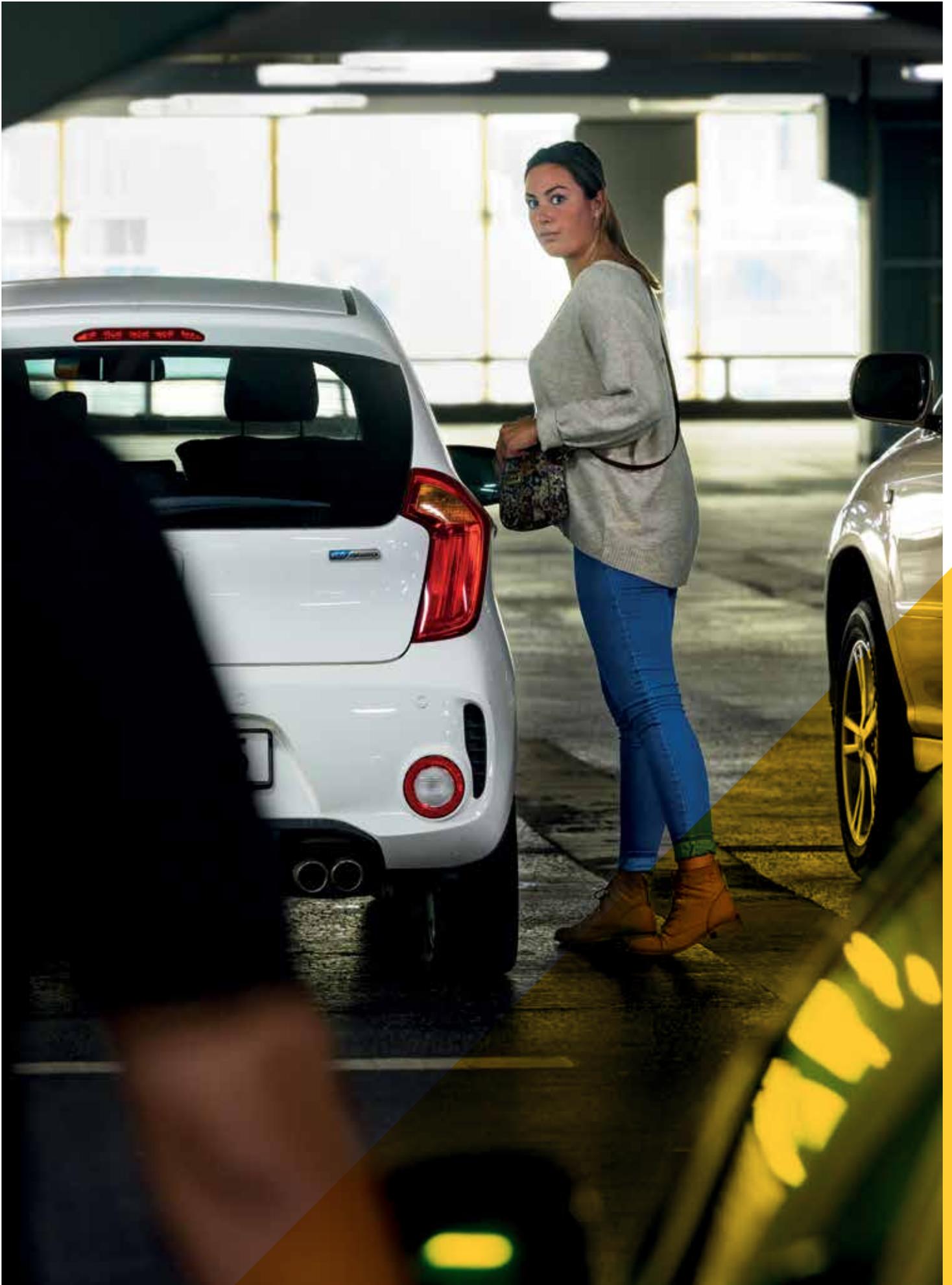
- > Visitor management: install any Axis network door station to handle visitors and unknown license plates. These integrate intercom, camera and barrier control functionality.
- > Backup: install an Axis card reader (note: if you've added an Axis door controller)

The purpose-built camera

AXIS P1445-LE-3 License Plate Verifier Kit is based on a sturdy, high performance Axis network camera that's suitable for installation in any environment. It features HDTV 1080p at 50/60 fps and Axis Lightfinder, Axis Forensic WDR and Axis OptimizedIR for accurate number plate readings regardless of light conditions – day or night. AXIS P1445-LE-3 can also withstand temperatures ranging from -40 °C to 60 °C (-40 °F to 140 °F). And it has shock detection, an impact-resistant design and tampering alerts.

In addition, AXIS License Plate Verifier analytics can be used with other Axis cameras.





Compare the systems



	Vehicle entry and exit	Vehicle access control featuring AXIS Entry Manager	Vehicle access control featuring partner software
System components	<p>AXIS P1445-LE-3 License Plate Verifier Kit</p> <p>AXIS License Plate Verifier analytics</p> <p>Optional: external AXIS A91 Network I/O Relay Module</p>	<p>AXIS P1445-LE-3 License Plate Verifier Kit</p> <p>AXIS License Plate Verifier analytics</p> <p>AXIS A1001 Network Door Controller running AXIS Entry Manager software</p>	<p>AXIS P1445-LE-3 License Plate Verifier kit</p> <p>AXIS License Plate Verifier analytics</p> <p>AXIS A1001 Network Door Controller running third-party software</p>
Access verification against	License plate match	<p>License plate match</p> <p>Access rules and schedules (i.e.: date, time, place)</p> <p>Different credential types</p>	<p>License plate match</p> <p>Access rules and schedules (i.e.: date, time, place)</p> <p>Additional access control features or systems Anti-passback</p> <p>Payment systems</p>
Blacklist match	Instantly triggers alarm and events notification	Instantly triggers alarm and pre-determined events in system	Instantly triggers alarm and pre-determined events in system
Plate type	Known vehicles	Known vehicles	<p>Known/Unknown vehicles</p> <p>Containers plate</p> <p>Hazardous goods plate</p>
System size	Small facilities: 2 cameras per gate	Small to medium facilities 10 gates per facility; max: 33 controllers	<p>Small, medium and large facilities</p> <p>Unlimited gates and controllers</p>
Credential types	License plates	<p>License plates or:</p> <ul style="list-style-type: none"> > access cards > PIN pads/keypads > mobile access 	<p>License plates or:</p> <ul style="list-style-type: none"> > access cards > PIN pads/keypads > mobile access
List quantity	<p>2000 total:</p> <ul style="list-style-type: none"> > Whitelist: 1000 > Blacklist: 1000 	Max: 400 credentials	Max: 50,000 credentials (in fallback scenario)
Events and history	<ul style="list-style-type: none"> > First in, first out (FIFO) history logic > Up to 1 000 entries on camera storage > Up to 100 000 entries on AXIS Surveillance Card 	<ul style="list-style-type: none"> > FIFO event history logic > Up to 30 000 entries per controller 	Unlimited

Suitable for



Vehicle entry and exit

Vehicle access control
featuring AXIS Entry Manager

Vehicle access control
featuring partner software

		Vehicle entry and exit	Vehicle access control featuring AXIS Entry Manager	Vehicle access control featuring partner software
Staff parking lots	Offices and industrial complexes	●	●	●
	Hospitals	●	●	●
	Educational facilities	●	●	●
Fleet or site management lots	Bus depots	●	●	●
	Logistic centers and platforms	●	●	●
	Construction areas and sites	●	●	●
Commercial car parks with revenue systems	Offices and industrial complexes		●	●
	Hospitality facilities		●	●
	City/town car park		●	●
	Warehouses		●	●
	Temporary events		●	●
	Taxis dispatch		●	●
Private and residential car parks		●	●	●

About Axis Communications

Axis enables a smarter and safer world by creating network solutions that provide insights for improving security and new ways of doing business. As the industry leader in network video, Axis offers products and services for video surveillance and analytics, access control, and audio systems. Axis has more than 3,000 dedicated employees in over 50 countries and collaborates with partners worldwide to deliver customer solutions. Founded in 1984, Axis is a Sweden-based company listed on the NASDAQ Stockholm under the ticker AXIS.

For more information about Axis, please visit our website www.axis.com.