

# Gatekeeper-X

Intelligent ANPR



SPEED  
PRECISION  
QUALITY

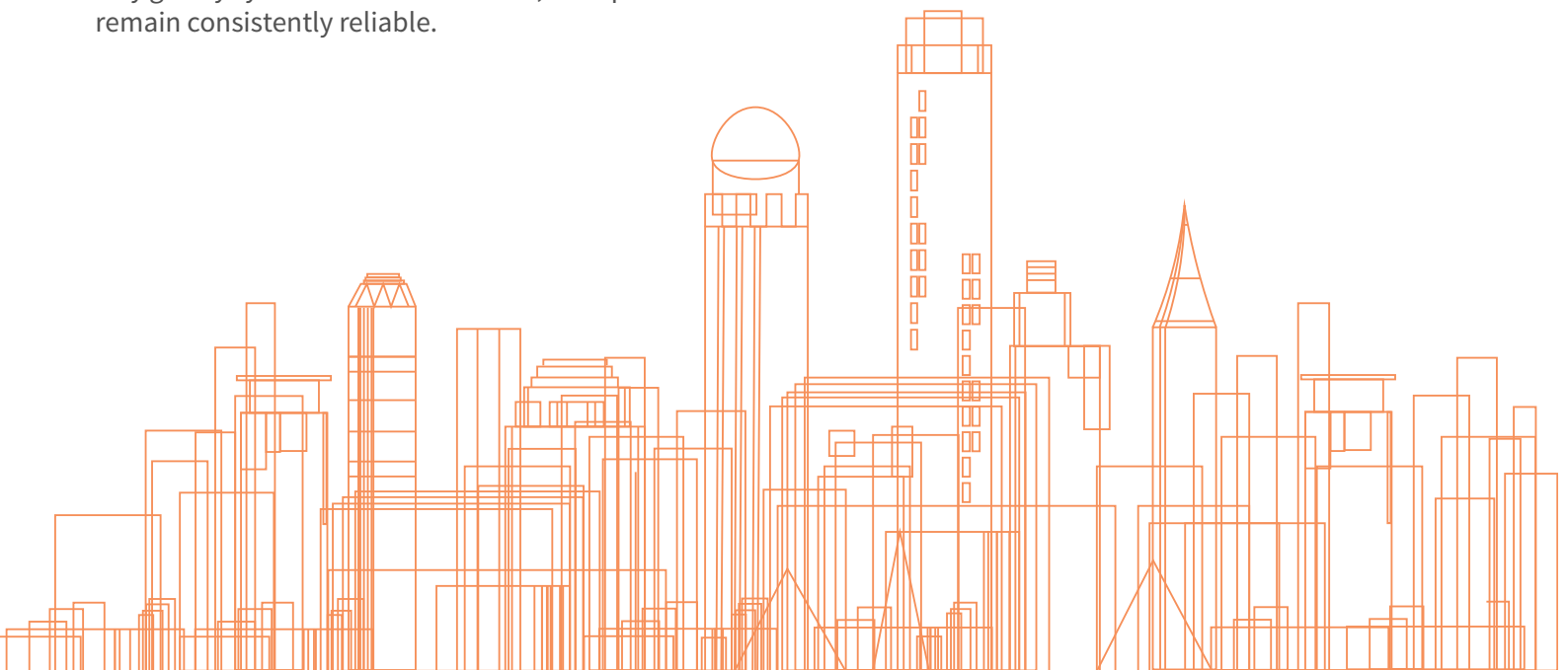
## Sophisticated ANPR camera system supporting a wide range of sectors

Equipped with superior processing power, each Gatekeeper model recognizes license plates with excellent precision. Its capacity for real-time, accurate ANPR empowers management systems across multiple sectors with the smart data they need for peak performance. As such, the camera emerges as a dependable pillar for streamlined and effective operations across a vast range of sectors.

The Gatekeeper performs real-time recognition on raw high-definition images at full frame rate, accommodating all traffic speeds. From high-speed highway gantry systems to access control, its capabilities remain consistently reliable.

Moreover, the Gatekeeper camera is designed for seamless integration and adaptability. It fits smoothly into existing infrastructures, simplifying deployment and ensuring compatibility with a wide range of systems.

Besides world class ANPR, its computational strength allows it to perform additional recognition tasks in parallel, amplifying its effectiveness and broadening its application.



# Applications



## City access

Streamline city access, control traffic flow and identify registered vehicles with ease for a safer and more efficient city.



## Low emission zones

Comply with low emission zone regulations, ensure only clean vehicles in access restricted areas, and contribute to a greener future.



## Subscription washing

Optimize the throughput of your carwash venue, while providing excellent levels of customer service and impeccable clean cars.



## Parking and access

Effortlessly manage parking and access control with our advanced ANPR technology, ensuring optimal efficiency and security for your facility.



## Traffic monitoring

Optimize traffic management systems with on board video analytics and precision ANPR technology for data-driven decision making.



## Automated tolling

Quickly and accurately recognize license plates and reduce wait times, automate payment and enhance the overall user experience.



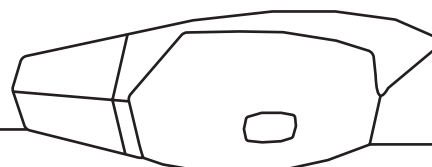
## Custom detection

Our in-house trained neural nets power our embedded cameras to deliver project-specific solutions for advanced image and video analytics.



## Object & people counting

Make informed decisions with our people and object counting technology. Gain insights to optimize operations, security and safety.





**“Successful project outcomes revolve around seamless integration and adaptability.”**

### **Software connectivity and IO ports**

With CortexFramework, the AVUTEK camera OS, installed, the Gatekeeper-X stands out in connectivity and integration possibilities. The camera systems can operate a barrier by itself or communicate via IP and Wiegand with an access control system. The remote SQL database-, ftp- and webservice-module cover all default connectivity with third party systems. Small customisations are implemented with the scripting engine without long integration trajectories.

Our integration service has successfully implemented dozens of custom solutions, linking our ANPR cameras with third-party systems such as registers, hotel reservation platforms, fleet and security management software, and traffic and parking control systems, to ensure seamless operations and improved efficiency.

### **Future proof**

Equipped with a CPU, an extra neural processing unit and plenty of internal memory, all Gatekeeper-X models have the resources at its disposal for longevity, future use and functional expansion. Initial functionality can be altered or added during the lifetime of the camera system, when future requirements evolve. The camera line features high quality products, that are designed in line with both the market today and, through a development program, with partner or end user needs of tomorrow.

**“Optimal results are achieved through our personal, top-notch service and support.”**

### **Remote management and support**

Much time and effort is spend to develop the ultimate remote management and maintenance environment. A set of powerful software tools and programs, ensure the accessibility of cameras in the field having the ability to monitor performance and manage settings on your laptop or from behind a desk.

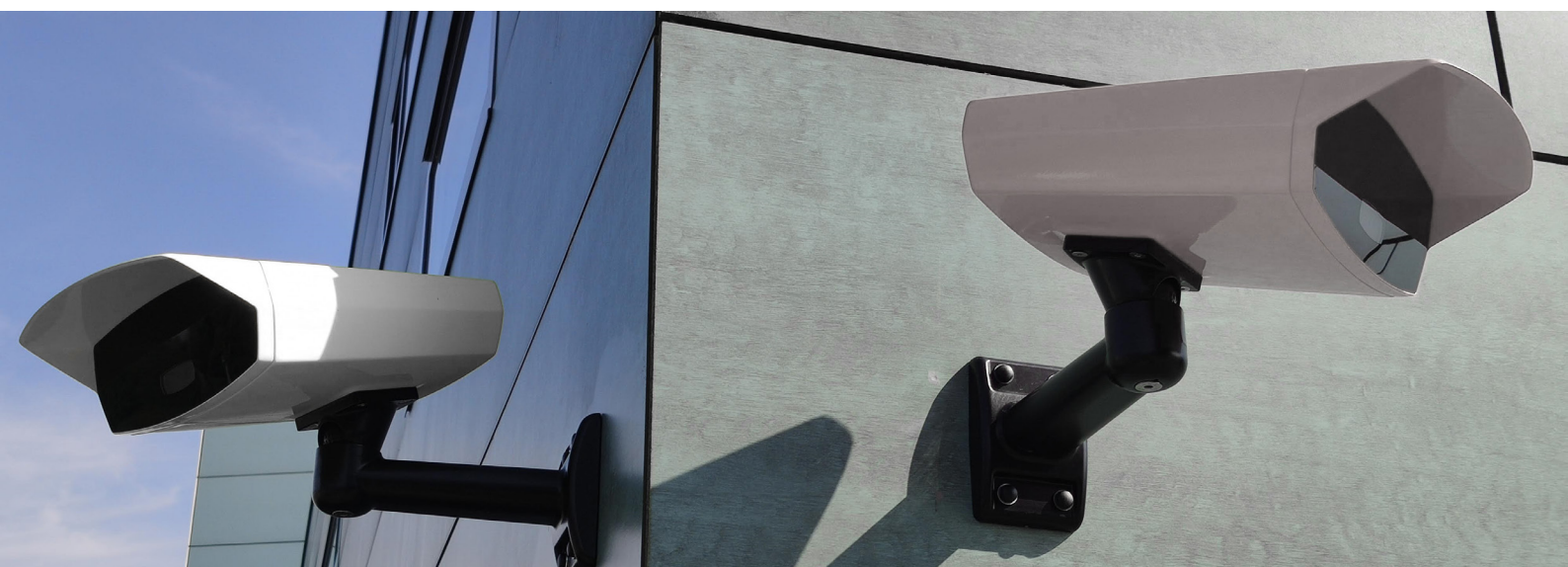
Smart software and connected intelligence, that monitors internal processes and guards up-time, runs on each device. Remote maintenance offers AVUTEK partners and their customers service and support, that is cost-effective and pro-active.

# Specifications per model

Gatekeeper 410X3 and Gatekeeper 1250X3 - two versatile and complete camera models - are engineered to cater to all project needs with excellent quality. Each model is designed to be adaptable, seamlessly integrating into various environments and meeting a wide range of specifications.

Regardless of the project size, from small-scale initiatives to expansive ventures, these cameras are geared to provide outstanding performance. High-quality imagery, precision, and versatility are the hallmarks of these models. Offering a comprehensive solution, these cameras serve as reliable partners, capable of transforming requirements into reality, across any project size or scope.

	Gatekeeper 410X3	Gatekeeper 1250X3
Sensor 1 + lens	1920x1200, monochrome, IR sensitive, motorized zoomlens	1920x1200 monochrome, IR sensitive, motorized zoomlens
Sensor 2 + lens	1920x1080, color, fixed 6mm lens	1920x1080, color, fixed 12mm lens
Recognition area	2-12 meters	5-30 meters
Effective lane width	6 meters	6 meters
Recognition angle	40 degrees (X&Y)	40 degrees (X&Y)
Recommended installation height	2 to 5 meters	2 to 8 meters
Vehicle speed	0-90 km/h	0-200 km/h
IR camera + IR LED + daylight filter	24/7 ANPR	24/7 ANPR
Light sensitive color camera	overview, optional extra source for ANPR, deep learning tasks	
On device recording and storage	128 GB internal storage	
Integration	FTP, webservice, Database, scripting engine, AVUTEK integration service. NET SDK	
IO port	relay, Wiegand	
Applications	Parking& Acces control, Smart city, ITS, Carwash	



**IO extender** has potential free contacts, DC analog input and a Wiegand driver to operate and read electronic devices triggered by recognition results.

**Dedicated** hardware, neural processing power and interfaces to ensure realtime performance. Internal video storage for embedded recording.

**Synchronised** IR LED illumination to capture and read license plates even during the night.

**Low light sensitive camera** used for overview, recording and as a source for additional deep learning tasks. Added to the ANPR engine, it improve the recognition of non-reflective license plates.

**IR sensitive** camera to capture license plates in all weather and lighting circumstances (specifications differ per model)

**Motorized zoomlens** provides a large recognition area and freedom of positioning during installation (specifications differ per model).

**Robust** all-weather powder coated IP66 housing. Weatherproof and with a wide temperature to ensure worldwide operation.

**Daylight filter** blocks daylight, minimises sunlight and headlights only to let IR light through to recognise in all lighting conditions.

**Extended** options for wall, ceiling or pole mounting. Compatibility with videotec WBOVA2, WCM4A2, WSFPA and all related accessories.

**Suncap** mechanical protection from direct sunlight.

## SPECIFICATIONS

### CONNECTIVITY

FTP  
Database  
Webservice  
Rule engine  
IO pins  
Specialised connector Axons

### POWER USAGE

PoE+ IEEE 802.3at powered

### DIMENSIONS AND WEIGHT

305 x 192 x 72 mm.  
2.43 kg.

## CONTACT

AVUTEC is always interested to learn how we can be of service in any video analytics project. Contact our sales team at +31 88 2444 010 or [sales@avutec.com](mailto:sales@avutec.com).