C5

Camera-Based Smart Counting Solution

C5 counting solution for parking garages

Vehicle monitoring just became more accurate with AI.

Introducing the C5 Smart Counting Solution, a part of the Park Assist Solution by TKH Security. The C5 solution uses a camera-based AI algorithm to accurately count vehicles entering and exiting parking garages. This innovative technology is unlike any sensor you've encountered. Our advanced solution, data analytics, and user-friendly operating software redefine the way parking is perceived and managed, transforming chaotic lots into organized, user-centric spaces. With a commitment to enhancing convenience, reducing congestion, and optimizing space utilization, TKH Security is at the forefront of shaping modern parking infrastructure.

Multi-lane monitoring with a single camera

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One camera for multi-lane monitoring.

Our C5 Smart Counting Solution uses a single overhead mounted camera mounted above traffic to precisely count vehicles, including those entering and exiting at the same time, compared to traditional loop or ultrasonic counting systems, installed in the asphalt, that require separate hardware for each lane to capture vehicle movement.

Performing at 96%+ accuracy, this innovative design reduces the chance of missed vehicles and eliminates double counts, a perfect solution for replacement of legacy ground loop-based technology. Since a single camera monitors traffic flow, the C5 is a cost-effective solution for the counting aspect of parking guidance. For added savings in maintenance costs, the C5 camera carries an IP68 rating which prevents damage to

the advanced electronics from water, fire, and dust.

Accurate bidirectional traffic detection.

With the use of advanced AI technology, the C5 Smart Counting Solution easily determines which direction a vehicle is traveling in. At the same time, this solution counts cars entering or existing at a specific area, even with two cars traveling in opposite directions at once.

The C5 solution can correctly count separate vehicles in bumper-to-bumper traffic without the use of delineators to define the lanes. Its state-of-the-art technology even accounts for environmental changes that may fool other systems.

C5 Features:

Enhance Security & Surveillance

Detect Bidirectional Traffic

Boost Parking Guidance

Real-Time Dashboard

Minimal Maintenance

Cloud Based Service & Integration API

Camera-based solution features AI technology.

Unlike loop or ultrasonic systems, the C5 uses a camera to count vehicles. The real-time HD streaming video can be stored for up to 90 days, if enabled, allowing the TKH security team to identify atypical events that may not have been counted correctly. Once identified, the software is updated to count the event accurately in the future.

Quick installation without parking structure downtime.

Since the C5 Smart Counting Solution leverages the benefits of modern camera technology, it requires a simple Power over Ethernet (PoE) installation. It eliminates the need to cut concrete, close driving lanes, or level an ultrasonic bar, reducing cost and speeding up the installation process.
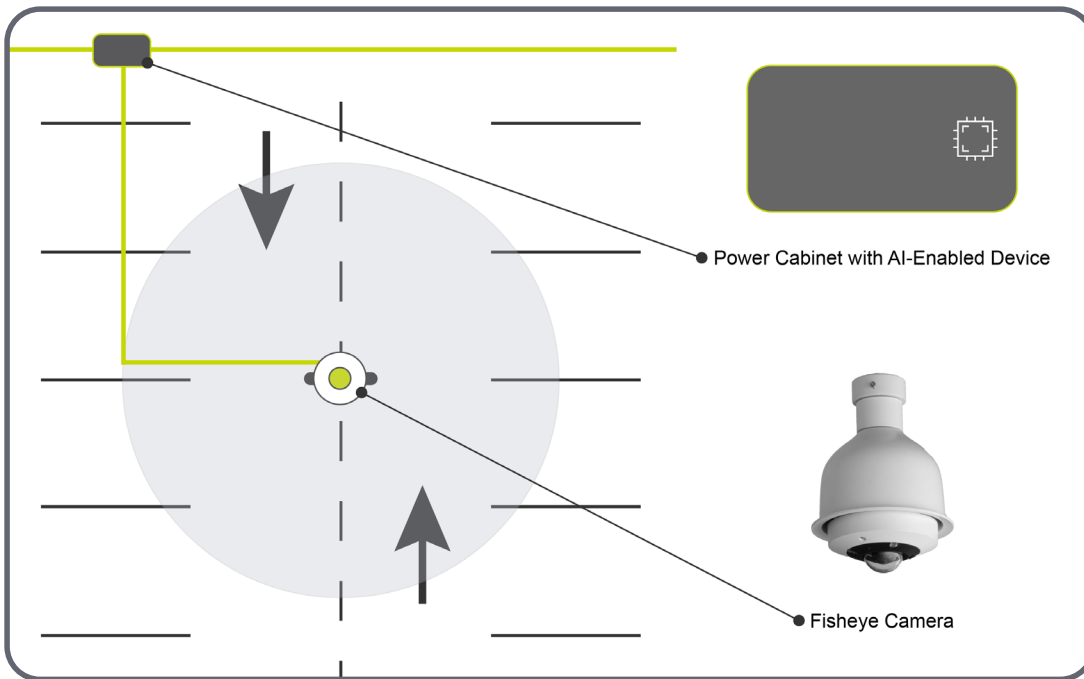
An integral component of the Park Assist Solution.

Our solution easily connects to our other parking guidance product and service offerings.

The C5 effortlessly integrates with:
● Digital wayfinding signage
● Mobile applications
● Limitless API integrations
● Surveillance and security features
● INX platform

For more information on the C5 camera-based smart counting solution, to explore our diverse guidance and beyond offerings, or to simply discuss your immediate parking challenges, please contact us at tkhsecurity.com.

The C5 is installed above the middle of the driving lane monitoring bidirectional traffic entering and exiting the area.

Power Cabinet with AI-Enabled Device

Fisheye Camera

Reduces maintenance cost for your business.

Without parking guidance technology, Maintenance costs are reduced when the C5 counting solution is installed. It only requires the camera lens to be cleaned periodically. Plus, weather and debris do not affect the accuracy. Parts can easily be replaced without halting service, ensuring monitoring and data collection continues.

Improved parking structure operation.

Loop and ultrasonic systems often require bays to be closed permanently, which forces traffic through monitored areas. This type of restriction increases congestion and reduces parking capacity. With the C5, parking space isn't sacrificed. The solution monitors an entire aisle plus a wide area to either side at a 96%+ accuracy rate, ensuring that no vehicle is missed even if it does not travel directly through the intended lane.

Remote monitoring increases safety and peace of mind.

Customers using parking garages want to feel safe, which is why real-time monitoring is essential. Our C5 includes features to remotely monitor and manage your audit counts. The accuracy report delivers reliable data, the traffic volume tracking feature provides customer behavior insights, and the occupancy report collects detailed information on the number of cars parked in each area.

For more information about the C5 counting solution detailed in this brochure, contact us at tkhsecurity.com.

Always proven. Always innovating.

Technology is ever changing, constantly being improved upon and updated. Your chosen parking guidance system provider must rise to meet the current and future needs of your parking facility. Discover below why TKH Security is the right fit:

The TKH Security Advantage	
Innovative Leadership	Successful, proven solutions for hardware and software, enabling us to continuously enhance our smart-sensing system.
Industry Experts	More than 200 years of C-level experience in the parking sector, including PARCS technology.
Global Success	Installations in 80 countries and counting, serving Fortune 500 companies and premier property developers and operators.
Account Management & Support	Rely on a responsive, trusted guide throughout installation, commissioning, and ongoing support.
Financial Stability	Publicly held parent company has billion-dollar backing and resources, providing a remarkable growth trajectory.
Comprehensive Services	Monitoring, fine-tuning, expert remote/onsite support, and training are available to ensure ideal system performance.

Our Brands: