

Milesight



SMART BUILDING
LoRaWAN® AI
NDAA AI VCA
Video Surveillance
5G Intelligent Traffic
LoRaWAN®
Video Surveillance NDAA
AIoT Video
SMART BUILDING
MILESIGHT D2D
Video Surveillance AI IoT
Multi-dimensional Sensing
NDAA INTELLIGENT TRAFFIC
Video Surveillance LoRaWAN®
Video Surveillance
SMART BUILDING
MILESIGHT D2D
AI VCA
5G

INTELLIGENT TRAFFIC CAMERA SERIES

Go Beyond Security, Go for Smarter Traffic

V3.0



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Go Beyond Security, Go for Smarter Traffic.

The rising of road-related issues, such as traffic congestion, parking problems and road accidents, poses serious challenges to global traffic management agencies and places higher demands on traffic monitoring systems.

Milesight Intelligent Traffic Solution that combines video surveillance with AI, ANPR, 3D Radar and other cutting-edge technologies helps to alleviate these concerns. It helps traffic management agencies systematically and intelligently monitor and understand road users' behavior and gain valuable insights based on real-time data to optimize traffic flow, minimize accident risks, reduce congestion and respond to emergencies more efficiently, which significantly optimizes traffic management and makes transport safer and smoother.



Key Features of Milesight Intelligent Traffic

Stunning High Performance to Satisfy All Your Needs

Various Detection Mode, Versatile Application Scenarios

Road Traffic Enforcement



No-plate Detection

Reverse Driving Detection

Red Light Violation Detection

Vehicle Counting

Vehicle Speed Detection

Parking Management



Specific Lane Management

Illegal Parking

Occupancy Detection

Parking Guidance

Entrance & Exit Management



Precise Capture, Superior Image



Flexible Deployment



AI-empowered LPR



Broad Region and Country Support



Integrated 3D Radar



Versatile Interfaces



Plate Management & Smart Search



Extensive Interoperability





Road Traffic Management

Intelligent Cameras for Road Traffic Monitoring

Capture Fast-moving Vehicle with GreatDetails

It's always the top concern to capture plates of speedy vehicles in traffic monitoring. Milesight Intelligent Traffic cameras adopt Global Shutter and supplement light and feature 100fps ultra-high frame rate with advanced image processing algorithms to capture all clear details of fast-moving vehicles during the day and night.

- Global Shutter
- 100fps High Frame Rate



- Traditional LPR Algorithms**
High rate of false positives
- Mileight AI LPR Algorithms**
Focus on plates precisely

No More Misreads and False Positives with Advanced AI Algorithms

Based on AI deep learning neural networks, our embedded AI LPR algorithms allow the camera to detect plates and read characters precisely, and also reducing false positives (bumper stickers, decals, etc.) and dealing better with smudges, plate variation, lighting changes or different angles than traditional LPR algorithms.

- LPR Image Mode
- Mileight AI LPR Algorithms

Get Clearer Plate Images at Night for 24/7 Monitoring

Poor lighting can be another major challenge in road traffic monitoring. However, that won't be an issue for us. Milesight adopts supplement light and develops a dedicated LPR Image Mode and a Night Mode to enhance the performance of 24/7 traffic monitoring through both hardware and software.

- Supplement Light
- Night Mode
- 1/1.8" Starlight Sensor

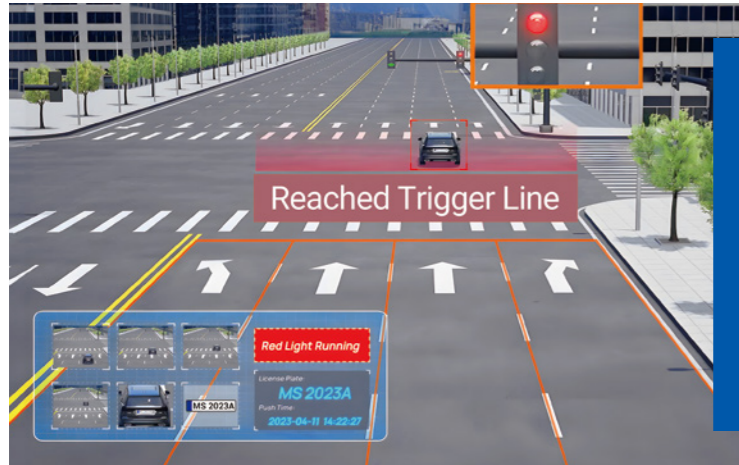


More Features

- Evidence Camera Linkage
- Vehicle Counting
- No-plate Detection
- Reverse Driving Detection
- Prevention of Certain Vehicle Types

TrafficX Camera Series

ANPR Game-Changer - For More Demanding Traffic Applications



Red Light Violation Detection

Utilizing the power of AI deep learning and signal inputs, Milesight TrafficX Enforcement Camera accurately detects traffic light status and vehicles that run red lights, greatly boosting law enforcement effectiveness and making the roads safer.

• Capture Traffic Data Like Never Before •

99%

Capture Rate

98%

Plate Recognition Rate

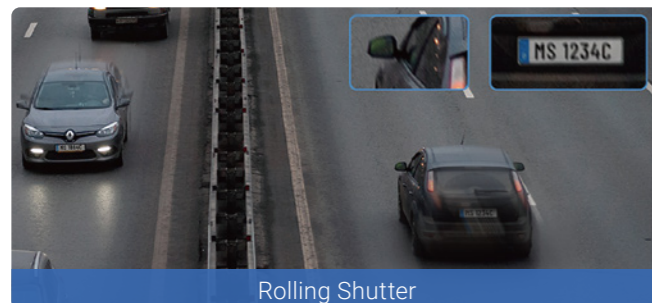
250km/h

High Recognizable Speed

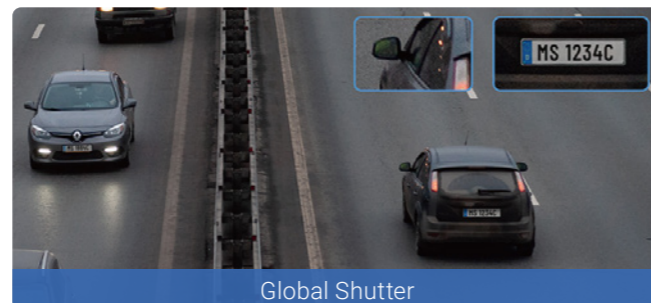
Experience the cutting-edge with our TrafficX Enforcement Camera - powered by a High-performance AI Chip and revolutionary Frame Parity Flashing alongside Global Shutter technologies. This innovative combination ensures you capture every critical moment on the road with absolute precision.

Crystal Clear Details from Global Shutter

Seize every moment in pristine clarity! With global shutter technology, all pixels are exposed simultaneously, allowing for the accurate capture of fast-moving vehicles, eliminating motion blur, distortions and providing crystal-clear images for accurate analysis.



Rolling Shutter



Global Shutter

Double Vision, Double Power

Get a comprehensive view of traffic with the dual-lens setup. Simultaneously capture an overview of the scene and detailed ANPR image. It's like having two cameras in one, efficiently providing you with valuable evidential data for precise analysis.



Onboard AI-based ANPR, Beyond Plates

Say hello to hassle-free traffic monitoring! With AI-based ANPR on the edge, our TrafficX Enforcement Camera achieves unmatched accuracy in identifying vehicles. Identify license plates, plate colors, vehicle types, brands, colors - all effortlessly.

• More Highlights •



Optional 4G LTE & Built-in GPS Empower Smart Mobility



Support CGI/APIs and TCP/HTTP /MQTT Protocols for Easy Integration

Various Applications



Urban Road



Freeway



Free-flow Tolling



Traffic Monitoring



Law Enforcement



Low Emission Zone

4G Solar-powered Traffic Sensing Camera

Real-time Evidence Catcher - Easily Deploy, Sharply Detect



- Accurate Evidence Capture by Radar & AI
- Solar-powered & Low Consumption
- 4G Wireless Easy Deployment to Go Anywhere
- MQTT & HTTP Supported, High Compatibility
- NDAA Compliant

Suitable in Various Scenarios



Illegal Dumping Detection



Suspicious Vehicle Detection



Specific Lane Capture



Illegal Parking Capture

AI Road Traffic Radar Pro Bullet Plus Camera

Integrate 3D Radar, AI and LPR into One



Accurate and Precise Data with Advanced 3D Radar Technology



Integrate 3D Radar, AI and LPR into one camera. Accurately identify vehicles and read plates, and provides precise real-time data of vehicle speed and direction in any weather conditions.

• 3D Radar Localization

- Up to 90m Detection Distance
- Up to 200km/h Speed Capture
- More than 95% High Recognition Accuracy
- 2 Lanes Coverage
- Up to 32 Vehicles Detected

- Vehicle Speed Detection
- Traffic Violation Detection
- Traffic Flow Statistics
- Evidence Camera Linkage
- LPR Smart Search
- Intelligent AI-powered LPR Algorithm
- Third-party VMS Integration

AI Road Traffic PTZ Bullet / Bullet Plus Camera

Intelligent PTZ to See More for Traffic Solution



Tilt Range: -45°~30°
Pan Range: 0~360°

Flexible 360° Pan, 75° Tilt and Zoom Tasks

5.3~64mm, 5X/12X/20X/23X Optical Zoom
Integrated Junction Box
Smart Fan for Defogging

Easy Deployment and Compact Structure

Traffic Violation Detection

Auto Tracking

- Traffic Flow Statistics**
Live view vehicle counting result & useful report insights
- Evidence Camera Linkage**
Link with any regular cameras to capture the evidence
- 3D Positioning**
Easily control and adjust the camera with just a mouse
- Plate Data Management**
Manage plate data effectively with Milesight Back-end integration
- Intelligent AI LPR**
Recognize various vehicle features with embedded AI LPR Algorithm
- Intelligent White LED**
Use the White LED as a supplementary light source or warning signal at night.
- LPR Smart Search**
Locate videos quickly by searching target vehicle's features
- Third-party VMS Integration**
CGI/API/TCP/HTTP supported to integrate with third-party VMS or platforms
- SIP/VoIP Supported**
SIP/VoIP and video streaming supported for mobile phones and video phones

► Other Recommended Models

- AI Road Traffic Pro Bullet Plus Camera
- AI Road Traffic Speed Dome Camera
- AI Road Traffic Supplement Light Pro Bullet Plus Camera
- AI Road Traffic Parking Detection Pro Bullet Plus Camera



Parking Management

Make Parking Easy and Smart

- 1**

ENTRANCE & EXIT MANAGEMENT
- 2**

INDOOR PARKING MANAGEMENT
- 3**

OUTDOOR PARKING MANAGEMENT

Entrance & Exit Management

Leave Safety and Efficiency in Good Hands



Higher Efficiency, Less Waiting Time

Mileight Supplement Light LPR Camera with Built-in Wiegand Interface + Access Control System = Efficient Entrance & Exit



Higher Accuracy, Less Misreading

Precisely recognize diverse vehicle attributes such as type, color, etc, and detect no-plate vehicles with high accuracy.



More Safety, Less Risks

Safety is greatly guaranteed with Mileight intelligent Black/White List Management of license plates, and the non-blind spot Evidence Camera Linkage.



Embedded AI LPR Algorithms, beyond Plate Recognition



Better Image Quality for 24/7 Monitoring with 140dB Super WDR



Simpler Video Management with Mileight Back-end Integration

Entrance & Exit AI LPR Bullet Camera / Pro Bullet Plus Camera

Smart & Ruggedized Camera for LPR Solution



Easy and Flexible Deployment

- Standalone Barrier Control with built-in AI LPR algorithms and embedded black/white list
- Milesight Back-end Integration for closed-loop traffic solutions
- Third-party VMS Integration by various CGI/APIs, interfaces and protocols like TCP, HTTP

Embedded AI LPR Algorithm

Black/White List & No-plate Vehicle Detection

Achieve efficient and accurate access control at any gate.



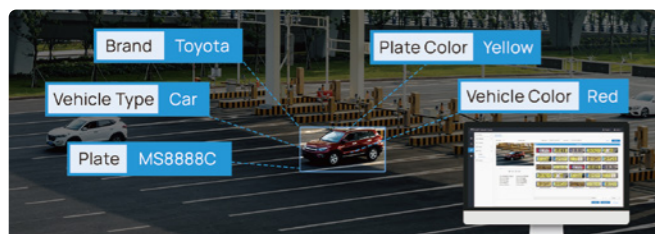
Evidence Camera Linkage

Link with any regular cameras to capture the evidence.



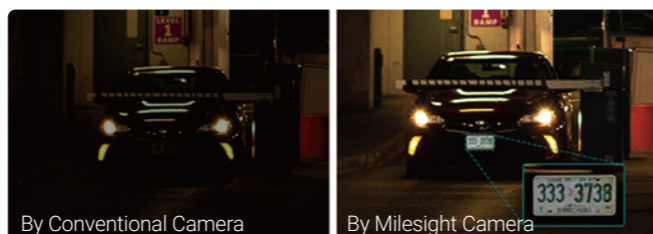
Intelligent AI-powered LPR Algorithm & LPR Smart Search

Users can easily locate desired videos by searching various features identified by AI LPR, such as type, brand, color, etc.



Superior Clear Image in Any Environment

140dB Super WDR / Smart IR II Technology / 0.005Lux Ultra Low-light / 60fps High Frame Rate.



More Highlights



IP67



IK10



SIP / VoIP Supported



Integrated Junction Box (Optional)

Other Recommended Models

Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera

Entrance & Exit AI LPR Pro Dome Camera

Go Far with Milesight Back-end Integration

Indoor Parking Guidance Camera

Navigating with Light, Parking with Ease



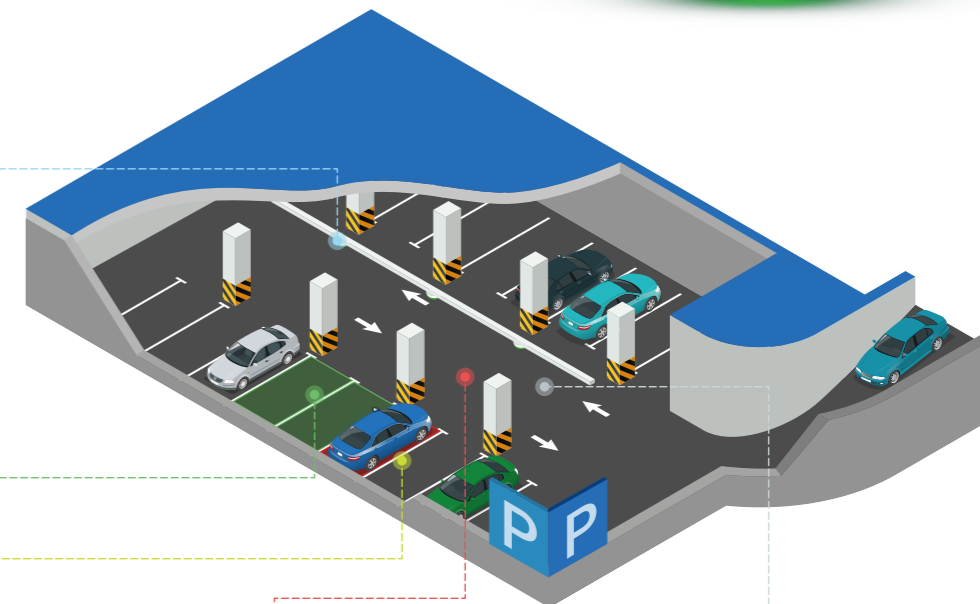
AI Parking Space Occupancy Detection with 99.9% Accuracy



Dual Lens Covering up to 6 Spaces



AI LPR & Vehicle Feature Recognition



Perfect for Indoor & Semi-open Parking Lots



Multi-color Customizable Indicator

More Highlights



Audio Output for External Speaker

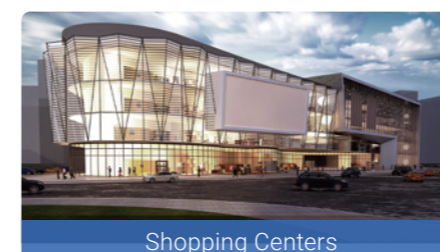


Flexible Integration with CGI/APIs



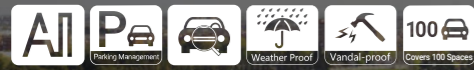
Daisy-chain for Easy Installation

Versatile Application Scenarios



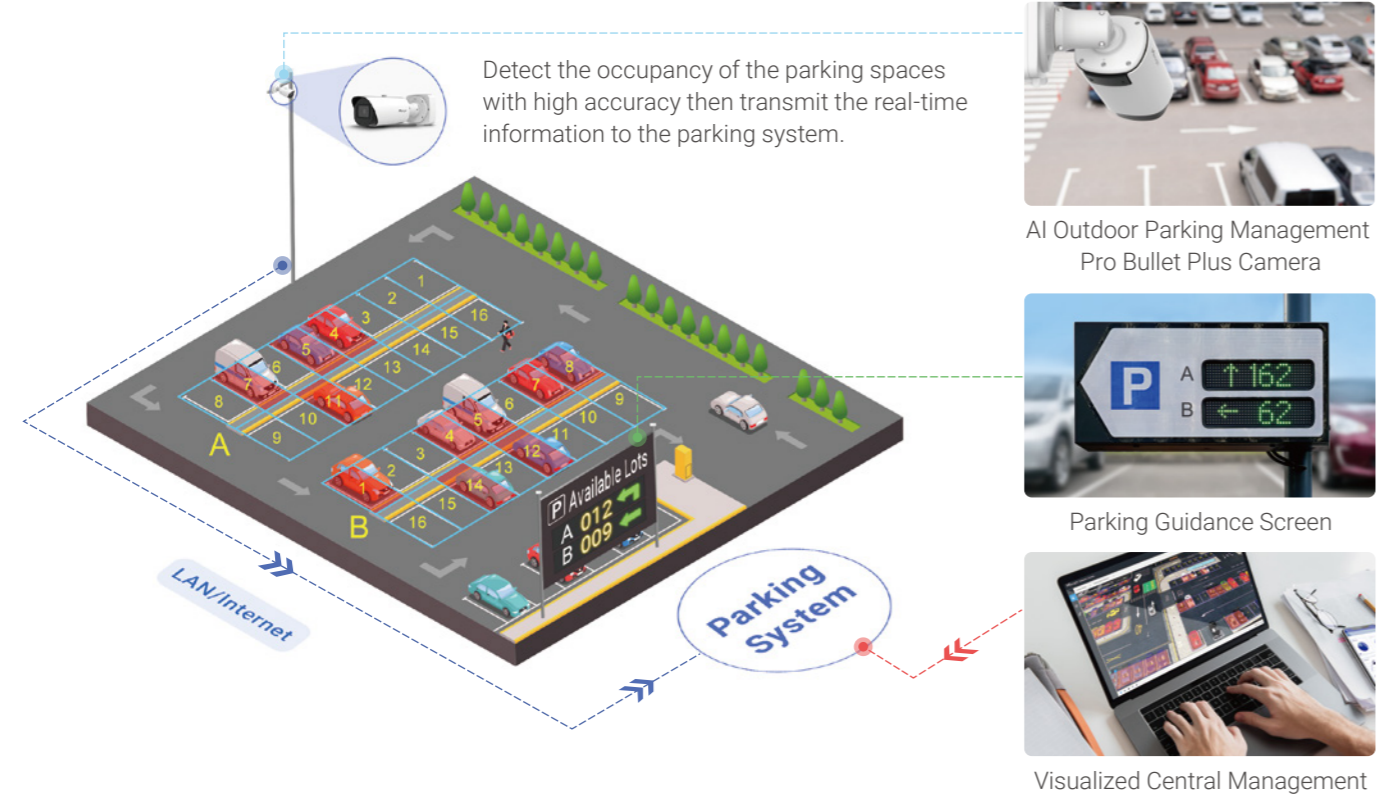
Outdoor Parking Management

Manage Multiple Parking Spaces Smartly and Efficiently



Lead the Intelligent Way of Outdoor Parking Management

Mileight's Intelligent Camera-based AI Outdoor Parking Management Solution effectively addresses issues of inefficiency and high costs, improving overall parking mobility.



Challenges:

For Operators

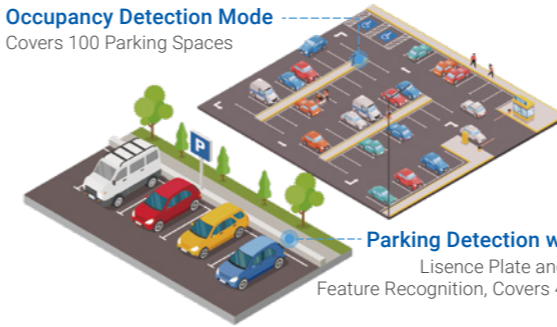
- Low-efficiency management of large car park
- Poor utilization of parking spaces
- Unreliable and costly parking management system
- Losing client loyalty

For Drivers

- Waste of time in finding parking spaces
- More fuel consumption and CO2 emission during parking spaces seeking
- A frustrated parking experience caused by traffic congestion

Solutions:

Occupancy Detection Mode
Covers 100 Parking Spaces



Parking Detection with LPR
License Plate and Vehicle Feature Recognition, Covers 4 Spaces

1 Camera 2 Detection Modes

- Flexible Switching Between Occupancy Detection & Occupancy Detection + LPR Mode.
- Up to 100 Parking Spaces in Real-time.
- Smart AI LPR Functions.
- High Precision Occupancy Detection.

1 Sharp Eye 24/7 Reliable Detection at Any Time

- Embrace Mileight Parking Image Enhancement Technology, Sony 4K 1.8" STARVIS 2 Sensor.
- Provide a 24/7 accurate and reliable detection with sharp details.



1 Integrated Solution 100% High Management Efficiency

- Support CGI/APIs to be easily integrated with your existing parking system
- Realize an integrated management solution with real-time parking spaces occupancy detection and super-high efficient parking guidance.

More Benefits

User-oriented Parking Facility Brings 100% Customers' Satisfaction

Bring Quick and Joyful Parking Experience for Drivers with Smart Parking Guidance

Fuel Saving and Emission Levels Reducing

Recommended Model:

AI Outdoor Parking Management Pro Bullet Plus Camera

- AI-powered Parking Space Detection Algorithms
- Flexible Switching between Two Detection Modes
- Smart LPR Functions
- >98% Recognition Rate
- 1/1.8" STARVIS 2 Sensor for Better Night View
- Parking Image Enhancement Technology
- 4K Ultra High Resolution Image Capture
- 3.6~10mm Motorized Lens
- Extensive 3rd Party Compatibility
- IP67&IK10

TrafficX Series



TrafficX Camera 1



TrafficX 2 Enforcement Camera

- 2*5MP Auto Focus Lenses
- Dual-lens for Overview and ANPR Image
- High-performance AI Chip and AI ISP Embedded
- AI-based Onboard ANPR: Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand,
- No-plate Vehicle Capture, Reverse Driving, Vehicle Attributes Event Detection
- 50m ANPR Distance & 2-3 Lanes Covering
- 99% Capture Rate & 98% Plate Recognition Rate
- 250km/h High Recognizable Speed
- Built-in GPS for Precise Location
- 4G LTE Network for Wireless Transmission (Optional)
- Support 1TB SD Card for Edge Storage
- Support CGI/APIs and TCP/HTTP/MQTT Protocols for Easy Integration

- Multiple Traffic Light Detection Methods
- Red Light Running & Cross Line at Red Light Detection

Road Traffic Management



4G Solar-powered Traffic Sensing Camera



- 2MP
- Radar Triggered Vehicle Capture
- AI Algorithm for Accurate Focus
- Solar-powered for Constant Use
- 4G LTE for Wireless Data Transmission
- Low Consumption Technology
- 16mm/6mm Optional Lens
- Two-lane (8m wide) Roadway Coverage
- MQTT & HTTP Protocol for Seamless Integration



AI Road Traffic Pro Bullet Plus Camera



- 2/4/5/8 MP
- 4X/12X Optical Zoom
- 1/1.8" Sensor & 0.005Lux Starlight
- 90fps High Frame Rate
- 140dB Super WDR
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Reverse Driving Detection
- Specific Lane Management
- Traffic Flow Statistics
- Evidence Camera Linkage

AI Road Traffic Radar Pro Bullet Plus Camera



- 2/4/5/8 MP
- 4X/12X Optical Zoom
- 1/1.8" Sensor & 0.005Lux Starlight
- 90fps High Frame Rate
- 140dB Super WDR
- Integrated 3D Radar
- Vehicle Speed Detection
- Vehicle Direction Detection
- 200km/h Recognizable Detection
- 90m Radar Detection Range
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Reverse Driving Detection
- Specific Lane Management
- Traffic Flow Statistics
- Evidence Camera Linkage

AI Road Traffic Supplement Light Pro Bullet Plus Camera



- 2/4/8 MP
- 4X(8~32mm) AF Lens
- 1/1.8" Sensor & 0.002Lux Starlight
- 90fps High Frame Rate
- 140dB Super WDR
- Integrated Supplement Light
- White LED Light / IR LED Light
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Reverse Driving Detection
- Specific Lane Management
- Traffic Flow Statistics
- Evidence Camera Linkage
- Versatile Interfaces (Alarm I/O*2, Audio I/O, DC 12V, RS485, Ethernet Port)

AI Road Traffic PTZ Bullet Plus Camera



- 2/4/5 MP
- 12X/20X/23X AF Lens
- Flexible Pan, Tilt and Zoom Tasks
- 1/1.8" Sensor & 0.002Lux Starlight
- 90fps High Frame Rate
- 140dB Super WDR
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Reverse Driving Detection
- Specific Lane Management
- Traffic Flow Statistics
- Evidence Camera Linkage
- Versatile Interfaces (Alarm I/O*2, Audio I/O, DC 12V, RS485, PoE)

AI Road Traffic PTZ Bullet Camera



- 2 MP
- 12X(5.6~64mm) AF Lens
- Flexible Pan, Tilt and Zoom Tasks
- 90fps High Frame Rate
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Reverse Driving Detection

- Specific Lane Management
- Traffic Flow Statistics
- Evidence Camera Linkage



AI Road Traffic Speed Dome Camera



- 4 MP
- 360°Endless Pan & 95° Auto-flip Tilt
- Pan Speed 250°/s, Tilt Speed 160°/s
- 36X(5.7~205.2mm) AF Lens
- 0.002Lux @1/1.8" STARVIS Sensor
- 60fps High Frame Rate
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Reverse Driving Detection
- Specific Lane Management
- Traffic Flow Statistics
- Evidence Camera Linkage
- Versatile Interfaces (Audio I/O, Alarm In*4, Alarm Out*2, AC 24V, PoE)
- Smart Rain-sensing Wiper (Optional)

AI Road Traffic Parking Detection Pro Bullet Plus Camera



- 8 MP
- Motorized Zoom Lens 3.6~10mm@F1.4
- 1/1.8" Starlight Sensor
- 65m IR Distance
- Parking Violation Detection (Up to 2 Illegal Parking Areas)
- Parking Detection (Up to 4 Parking Spaces)
- Intelligent AI-powered LPR Algorithm
- Up to 98% Recognition Rate
- 3rd Party Compatibility with CGI/APIs/HTTP(s)

Parking Management



Indoor Parking Guidance Camera

- 3 MP*2
- 2.8mm*2@F1.6
- AI Parking Space Occupancy Detection (≥99.9% High Accuracy)
- Dual Lens Covering up to 6 Spaces
- AI LPR & Vehicle Feature Recognition: License Plate, Plate Color, Vehicle Type, Vehicle Color



- Multi-color Customizable Indicator
- Audio Output for External Speaker
- Flexible Integration with CGI/APIs
- IP65 Rated Robust Performance
- Daisy-chain for Easy Installation



AI Outdoor Parking Management Pro Bullet Plus Camera

- 8 MP
- 3rd Party Compatibility
- Motorized Zoom Lens 3.6~10mm@F1.4
- 1/1.8" Starlight Sensor
- 65m IR Distance
- [Occupancy Detection](#) (Up to 100 Parking Spaces)
- [Parking Detection with LPR](#) (Up to 4 Parking Spaces)
- Intelligent AI-powered LPR Algorithm
- 98%+ Recognition Rate
- IP67 & IK10 Full Protection



Entrance & Exit AI LPR Pro Bullet Plus Camera

- 2 MP
- 140dB Super WDR
- Smart IR II Technology
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Evidence Camera Linkage
- LPR Smart Search
- IP67 & IK10 Full Protection
- Integrated Junction Box



Entrance & Exit AI LPR Bullet Camera

- 2 MP
- 140dB Super WDR
- Smart IR II Technology
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Evidence Camera Linkage
- LPR Smart Search
- IP67 & IK10 Full Protection



Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera

- 2 MP
- Motorized 2.7~13.5mm@F1.4
- 60fps High Frame Rate
- 140dB Super WDR
- [Integrated Supplement Light](#)
- [White LED Light / IR LED Light](#)
- [Wiegand Protocol for Access Control System](#)
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Evidence Camera Linkage
- LPR Smart Search



Entrance & Exit AI LPR Pro Dome Camera

- 2 MP
- 140dB Super WDR
- Intelligent AI-powered LPR Algorithm
- Black & White List and No-plate Vehicle Detection
- Evidence Camera Linkage
- LPR Smart Search
- Clamshell Design for Easy Installation
- IP67 & IK10 Full Protection