

- Make Sensing Matter ■



INTELLIGENT TRAFFIC SERIES

Product Brochure

V4.6



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Milesight



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AI Road Traffic Speed Dome Camera

4G Solar-powered Traffic Sensing Camera

AI Road Traffic PTZ Bullet Camera

AI Road Traffic Pro Bullet Plus Camera

AI Road Traffic PTZ Bullet Plus Camera

AI Road Traffic Radar Pro Bullet Plus Camera

AI Road Traffic 5G Pro Bullet Plus Camera

AI Road Traffic Supplement Light Pro Bullet Plus Camera

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Indoor Parking Guidance Camera

Entrance & Exit AI LPR Bullet Camera

Parking Management Camera

Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera

5G Parking Management Camera

Entrance & Exit AI LPR Pro Dome Camera

Entrance & Exit AI LPR Pro Bullet Plus Camera



- AI AI Powered
- NDAA NDAA Compliant
- 🚗 Precise ANPR
- 📡 Radar-Video Fusion
- 🌐 Extensive Interoperability

Go Beyond Security, Go for Smarter Traffic

In the complex landscape of traffic management, reliability and efficiency are non-negotiable. At Milesight, we understand the critical role that intelligent traffic solutions play in ensuring the smooth flow of daily life. That's why we're proud to introduce the Milesight Intelligent Traffic Camera Series - engineered to deliver unparalleled intelligence, efficiency, and reliability.

Drawing on our deep expertise in security surveillance, Milesight brings a refined, purpose-driven approach to modern traffic management. Our commitment to enhancing safety, optimizing traffic flow, and delivering scalable solutions is at the core of every product. Milesight Intelligent Traffic Camera Series is designed to meet the unique and evolving demands of traffic systems, offering advanced capabilities for today's most challenging traffic projects.

Discover how Milesight Intelligent Traffic Camera Series is shaping the future of safer, smarter, and more efficient roads.

Milesight PlateXpert Technology

Precision Redefined Beyond ANPR

PlateXpert

PlateXpert

Vehicle Type: Car
 Vehicle Color: White
 Plate: MS1234C
 Plate Color: White

MS 1234C

Recognize License Plates of Every Kind

Angled Plates

Reflective Plates

Low-contrast/ Faint-character Plates

Multi-line Plates

Special Characters

ADR Plates

Rich Plate Attributes & Vehicle Attributes

Vehicle Type

Motorized Vehicle:

- Car
- SUV
- Van
- Bus
- Fire Engine
- Ambulance
- Truck
- Motorbike

Non-motorized Vehicle:

- Bicycle
- E-Scooter

Vehicle Brand

- Audi
- Toyota
- Buick
- Aston Martin
- Jeep
- BMW
- Mazda
- Tesla
- Honda
- Volkswagen
- Ford
- Mercedes-Benz
- Lexus
- Maybach

Plate Color

- Black
- Yellow
- Green
- White
- Blue
- Red

Vehicle Color

- Red
- Yellow
- Green
- Grey
- Brown
- Blue
- White
- Black
- Purple

Core Technologies for Precise Recognition

Frame Parity Flashing

Even Frame
(short exposure)

Odd Frame
(long exposure)

Global Shutter

Rolling Shutter

Global Shutter

740nm/850nm Wavelength

850nm IR Wavelength

740nm IR Wavelength



≥99% Capture Rate



≥98% ANPR Accuracy



50+ Countries Supported



0.1 Second Recognition Time

TrafficX Series

Top-Tier Traffic Cameras for Most Demanding Traffic Applications



Urban Roads



Low Emission Zone



Free Flow Tolling



Intersections



Highways

Products



DualVision TrafficX Radar Camera
TS5510-GVH



DualVision TrafficX Camera
TS5510-GH



DualVision TrafficX Enforcement Camera
TS5511-GH



SingleVision TrafficX Camera
TS5020-GIE

Product Features

Single Sensor



SingleVision TrafficX Camera

- Lens: 5MP, 15-50mm, Motorized zoom and focus

Dual Sensor



DualVision TrafficX Camera

- Lens: 2*5MP, 15-50mm, Motorized zoom and focus



DualVision TrafficX Enforcement Camera

- Red Light Violation Detection
- Lens: 2*5MP, 15-50mm, Motorized zoom and focus



DualVision TrafficX Radar Camera

- Radar-Video Fusion
- Up to 320km/h Speed Detection
- Lens: 2*5MP, 15-50mm, Motorized zoom and focus

Superior Performance for the Most Demanding Traffic Scenarios

99%

Capture Rate

98%

Plate Recognition Rate

320km/h

High Recognizable Speed

Sharp Image for Precise ANPR

Frame Parity Flashing

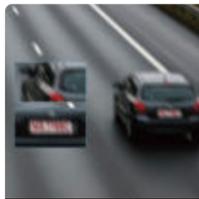


Even Frame (short exposure)



Odd Frame (long exposure)

Global Shutter



Rolling Shutter

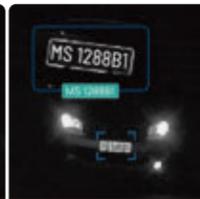


Global Shutter

740nm/850nm Wavelength



850nm IR Wavelength



740nm IR Wavelength

Comprehensive Traffic Violation Detection



Phone Use Detection & Seatbelt Unfastened Detection

NEW



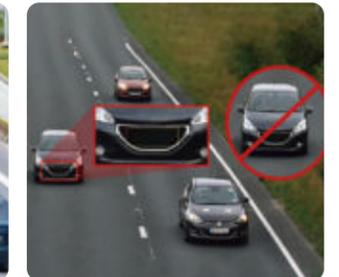
Red Light Violation Detection



Speed Detection



Reverse Driving Detection



No-Plate Detection

More Highlights



AI-powered Onboard ANPR



2*5MP Dual Lenses



Up to 50m ANPR Distance



2-3 Lanes Covering



1TB SD Card Storage



Support GPS /4G Module



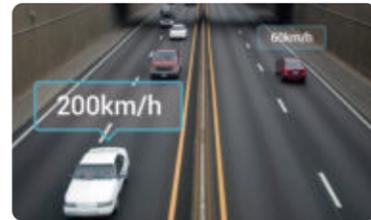
TCP/HTTP/MQTT



CGI/API

TrafficC Series

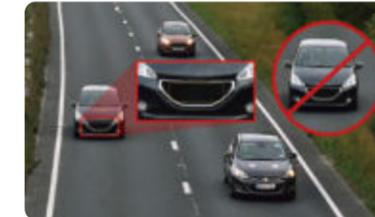
For More Efficient Road Traffic Management



Speed Monitoring & Speeding Detection



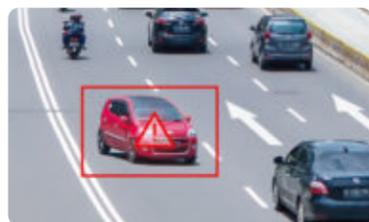
Mobile Surveillance



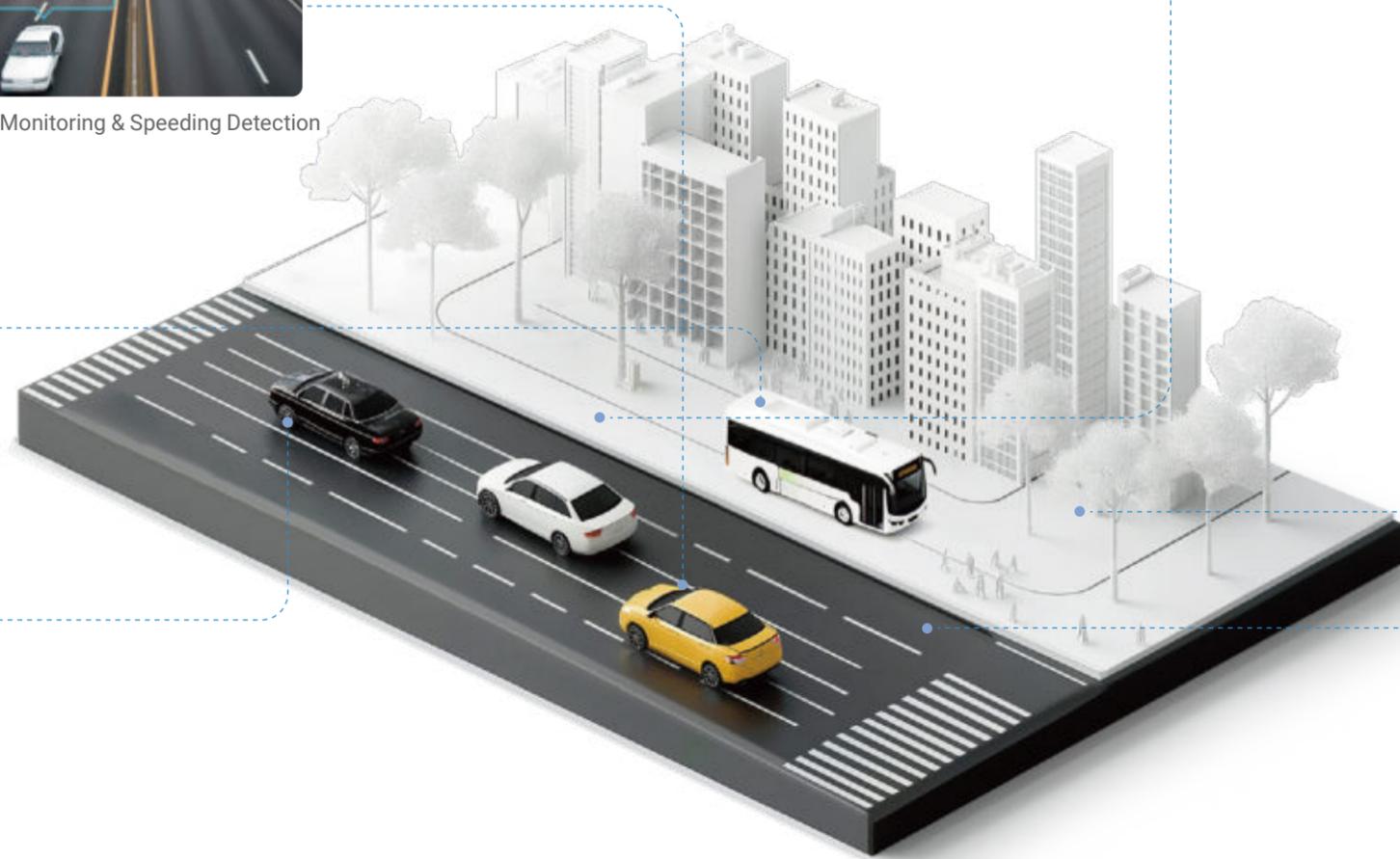
No-Plate Detection



Attributes Event Detection



Reverse Driving Detection



Traffic Flow Management



On-street Parking Violation Detection

Products



4G Solar-powered ANPR Camera



4G Solar-powered Traffic Sensing Camera



AI Road Traffic Supplement Light Pro Bullet Plus Camera



AI Road Traffic PTZ Bullet Plus Camera



AI Road Traffic PTZ Bullet Camera



AI Road Traffic Pro Bullet Plus Camera



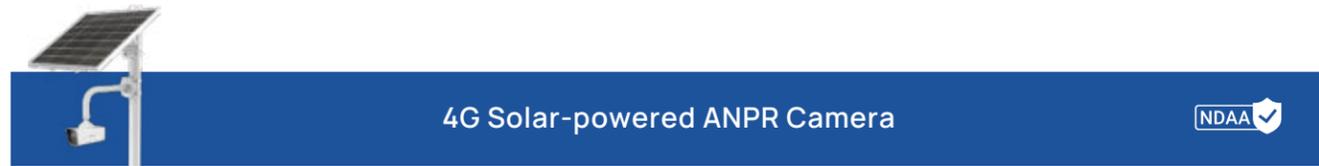
AI Road Traffic Radar Pro Bullet Plus Camera



AI Road Traffic Speed Dome Camera



AI Road Traffic 5G Pro Bullet Plus Camera



4G + Solar-powered for Efficient Remote Security



17-Day Battery Life with Continuous Recording



Up to 962Wh Battery & 2*100W Solar Panel

Working Configuration	Recording	LPR Detection	Data Transmission
Performance	Continuous	On (Full Frame Rate)	On/Off
Sleep	Scheduled Image Capture	Off	Off

Flexible Working Configuration for Enhanced Efficiency



On-Edge AI LPR & Vehicle Attributes Recognition

- Vehicle Type: Bicycle/Car/Motorcycle/Bus/Truck
- Allowlist/Blocklist Management & Events
- No-plate Event

More Features



4MP/0.005Lux/120dB Super WDR



20m IR Distance



IP67



-20°C~65°C Working Temperature



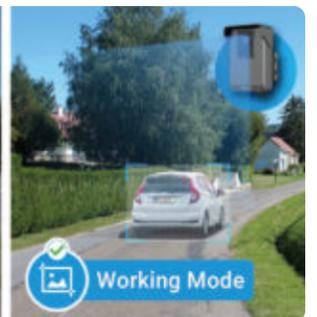
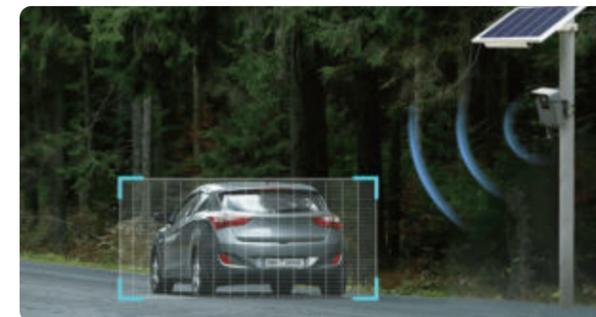
4G Connectivity



Built-in High-Accuracy GPS Module



Precise Real-time Capture with Radar & AI



Low-power Mode Ensures Low Consumption & High Efficiency



Solar-powered for Sustainable Use

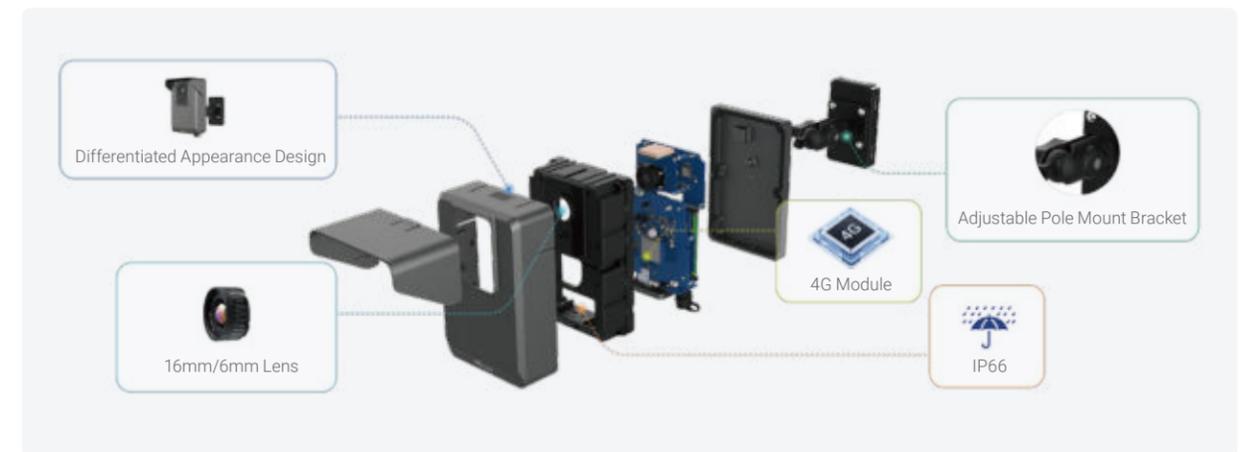


4G LTE Wireless & Effortless Data Transmission



MQTT & HTTP Protocol for Seamless Integration

Unique Structure Design for Flexible Deployment



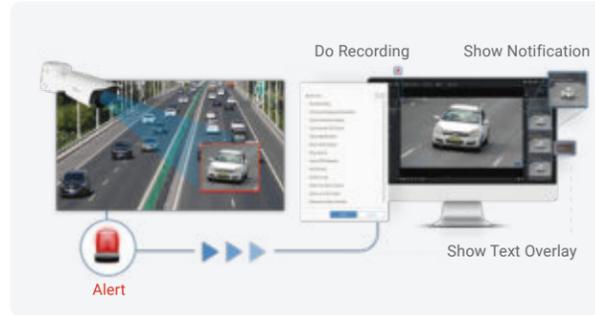
Various Applications



AI Road Traffic Pro Bullet Plus Camera NDAA



Professional AI-powered LPR Camera with Sharp Image



Traffic Violation Detection

Superior Image Quality

- 4X/12X AF Lens
- Up to 4K Ultra High Definition
- 1/1.8" Sensor & 0.005Lux Starlight
- 60fps High Frame Rate
- WDR Supported
- 740nm/850nm Optional

Traffic Management

- AI-powered LPR
- Traffic Flow Statistics
- Evidence Camera Linkage
- LPR Smart Search
- Plate Data Management

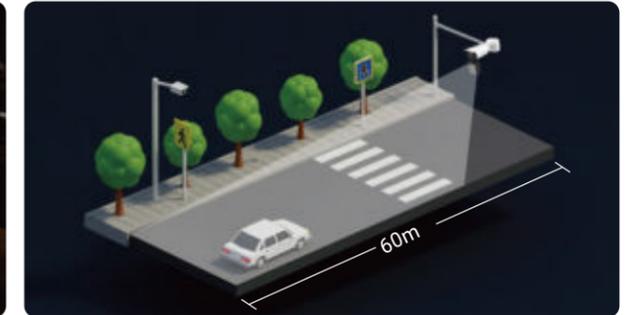
More Highlights

- IP67 & IK10
- Audio I/O, 2*Alarm I/O, Wiegand, DC12V, RS485, Ethernet Port
- SIP/VoIP Supported

AI Road Traffic Supplement Light Pro Bullet Plus Camera NDAA



Integrated IR LED Light or White LED Light



Illumination Distance Up to 60m

Superior Image Quality

- 4X(8~32mm) AF Lens
- Up to 4K Ultra High Definition
- 1/1.8" Sensor & 0.002Lux Starlight
- 60fps High Frame Rate
- 740nm/850nm Optional

Traffic Management

- AI-powered LPR
- Traffic Violation Detection
- Traffic Flow Statistics
- Evidence Camera Linkage
- LPR Smart Search
- Plate Data Management

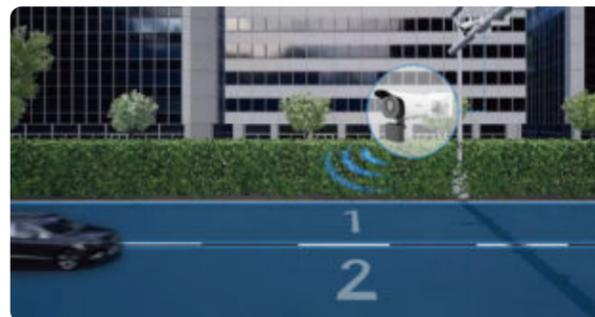
More Highlights

- IP67 & IK10
- Audio I/O, 2*Alarm I/O, Wiegand, DC12V, RS485, Ethernet Port
- SIP/VoIP Supported
- Integrated Junction Box

AI Road Traffic Radar Pro Bullet Plus Camera NDAA



Up to 160km/h Speed Detection with 3D Radar



2 Lanes & 32 Vehicles Monitoring

Superior Image Quality

- Lens: 4X/12X AF or Motorized 2.8~12mm@F1.2
- Smart IR II Technology
- Up to 4K Ultra High Definition
- 1/1.8" Sensor & 0.001Lux Starlight
- 60fps High Frame Rate
- WDR Supported

Traffic Management

- AI-powered LPR
- Traffic Violation Detection
- Traffic Flow Statistics
- Evidence Camera Linkage
- LPR Smart Search
- Plate Data Management

More Highlights

- IP67
- SIP/VoIP Supported

AI Road Traffic Speed Dome Camera NDAA



Flexible Pan, Tilt and Zoom Tasks



630ft Long Distance LPR

Superior Image Quality

- 36X(5.7~205.2mm) AF Lens
- 60fps High Frame Rate
- 1/1.8" Sensor & 0.002Lux Starlight
- 740nm/850nm Optional

Traffic Management

- AI-powered LPR
- Traffic Violation Detection
- Traffic Flow Statistics
- Evidence Camera Linkage
- LPR Smart Search
- Plate Data Management

More Highlights

- IP66 & IK10
- 3D Positioning
- Smart Rain-Sensing Wiper (Optional)
- Various Accessories Optional
- SIP/VoIP Supported

 **AI Road Traffic PTZ Bullet Camera** 



360° Endless Pan & 75° Tilt

Various Installation Modes

- | | | |
|---|---|--|
| <p> Superior Image Quality</p> <ul style="list-style-type: none"> • 12X(5.6~64mm) AF Lens • 90fps High Frame Rate | <p> Traffic Management</p> <ul style="list-style-type: none"> • AI-powered LPR • Traffic Violation Detection • Traffic Flow Statistics • Evidence Camera Linkage • LPR Smart Search • Plate Data Management | <p> More Highlights</p> <ul style="list-style-type: none"> • 3D Positioning • IP66 • SIP/VoIP Supported |
|---|---|--|

 **AI Road Traffic PTZ Bullet Plus Camera** 

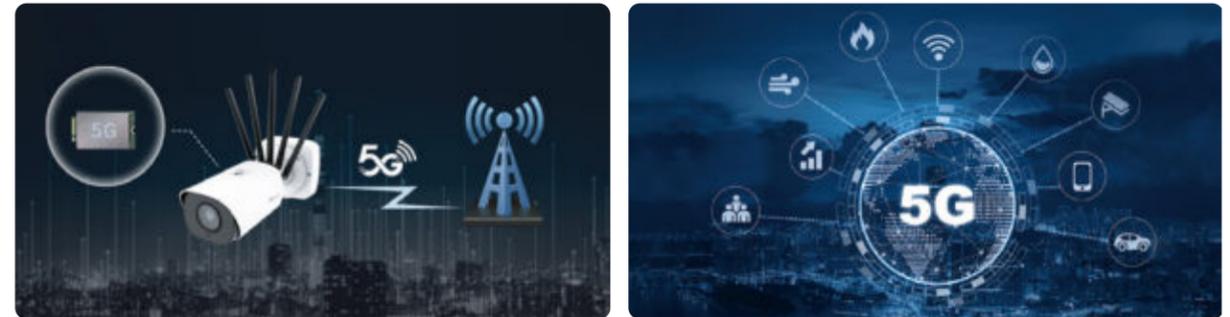


360° Endless Pan & 75° Tilt

3D Positioning

- | | | |
|--|---|--|
| <p> Superior Image Quality</p> <ul style="list-style-type: none"> • 5X/12X/20X/23X AF Lens • 1/1.8" Sensor & 0.002Lux Starlight • 90fps High Frame Rate | <p> Traffic Management</p> <ul style="list-style-type: none"> • AI-powered LPR • Traffic Violation Detection • Traffic Flow Statistics • Evidence Camera Linkage • LPR Smart Search • Plate Data Management | <p> More Highlights</p> <ul style="list-style-type: none"> • IP66 • SIP/VoIP Supported |
|--|---|--|

 **AI Road Traffic 5G Pro Bullet Plus Camera**



Built-in 5G Module for Wireless Streaming

Broad Extensibility



Low Latency & High Bandwidth

Efficient Data Transmission with High Resolution

- | | | |
|---|---|--|
| <p> Superior Image Quality</p> <ul style="list-style-type: none"> • 4X Optical Zoom • 60fps High Frame Rate • 1/8" Sensor & 0.005Lux Starlight | <p> Traffic Management</p> <ul style="list-style-type: none"> • AI-powered LPR • Traffic Violation Detection • Traffic Flow Statistics • Evidence Camera Linkage • LPR Smart Search • Plate Data Management | <p> More Highlights</p> <ul style="list-style-type: none"> • IP67 & IK10 • SIP/VoIP Supported • Integrated Junction Box |
|---|---|--|

Parking Management Series

Driving Safety and Efficiency in Parking Management



Indoor Parking Guidance

- Dual Lens for 6 Spaces
- Customizable Multi-color Indicator
- AI LPR & Vehicle Attributes Recognition



Parking Management

- Occupancy Detection (Up to 100 Parking Spaces)
- Parking Detection with LPR (Up to 6 Parking Spaces)
- Parking Violation Detection (Up to 2 Illegal Parking Areas)



Entrance & Exit Management

- AI-powered LPR Algorithm
- Allowlist/Blocklist Management
- No-plate Vehicle Detection
- Wiegand Interface for Access Control
- Integrated Supplement Light



Video Surveillance

- Image Capturing and Video Recording for Vehicle Security Incidents



On-street Parking Management

- Parking Occupancy Detection & Residence Time
- Parking Violation Detection

Products



Indoor Parking Guidance Camera



Parking Management Camera



5G Parking Management Camera



Entrance & Exit AI LPR Pro Bullet Plus Camera



Entrance & Exit AI LPR Bullet Camera



Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera



Entrance & Exit AI LPR Pro Dome Camera

 **Indoor Parking Guidance Camera** 

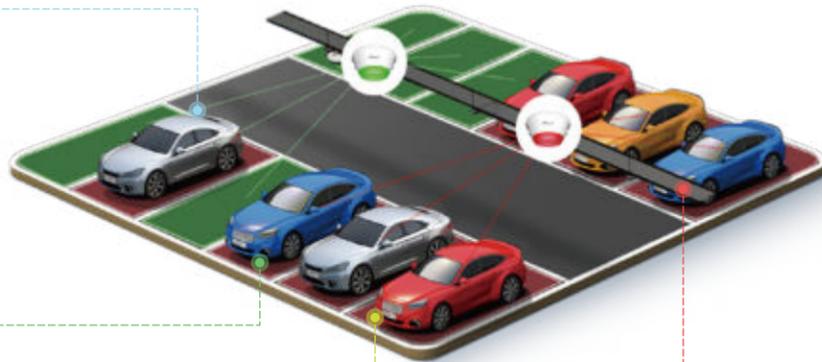
 **Parking Management Camera**



AI Parking Space Occupancy Detection with 99.9% Accuracy



AI LPR & Vehicle Feature Recognition

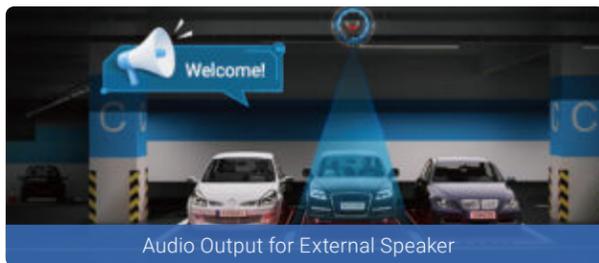


Perfect for Indoor & Semi-open Parking Lots



Multi-color Customizable Indicator

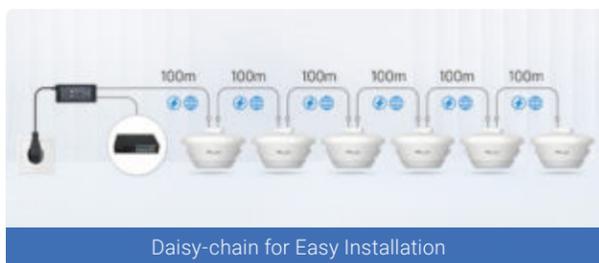
More Highlights



Audio Output for External Speaker



Flexible Integration with CGI/APIs



Daisy-chain for Easy Installation



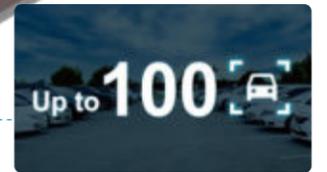
IP65 Rated Robust Performance



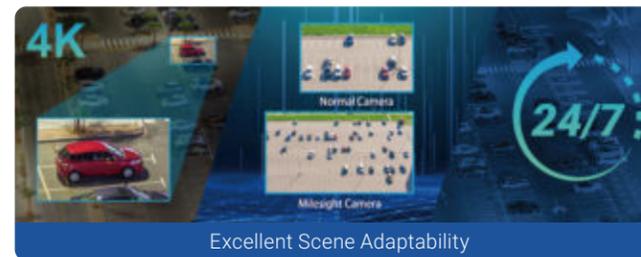
Parking Violation Management
Identify and Record Illegal Parking Behaviors



Parking Detection with LPR
Up to 6 Parking Spaces for Parking Detection with LPR



Occupancy Detection
Up to 100 Parking Spaces



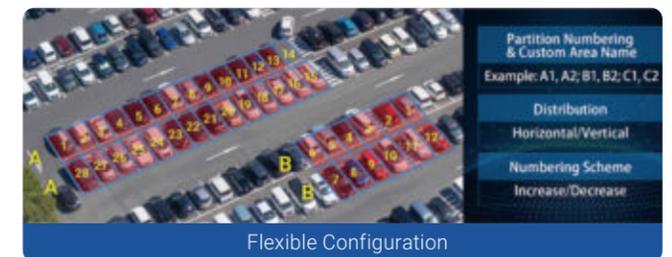
- Motorized zoom lens & 4K resolution
- 1/1.8" STARVIS starlight sensor



- Support CGI/APIs for third-party platform integration
- Support network protocol such as HTTP(s) for data processing



- Integrated cable management bracket
- IP67 & IK10



- Customizable configuration: Area Name, Planned Spaces of Area, Distribution and Numbering Scheme of the detection area



5G Parking Management Camera



Parking Violation Management
Identify and Record Illegal Parking Behaviors



Parking Detection with LPR
Up to 6 Parking Spaces for Parking Detection with LPR



Occupancy Detection
Up to 100 Parking Spaces



Built-in 5G Module for Global Connectivity

Native 5G/4G/3G support with broad NR, LTE-FDD/TDD, and WCDMA bands, ensuring worldwide adaptability



Reliable Multi-Mode Operation

SA, NSA, and LTE fallback for uninterrupted operation across diverse network conditions



Ultra-Fast Transmission with Low Latency & High Bandwidth

Up to 3.4Gbps downlink and 900Mbps uplink, guaranteeing real-time video streaming and data interaction



Efficient Data Transmission with High Resolution

Stable, high-capacity channels designed for lossless image delivery, ensuring accurate vehicle capture and remote monitoring



Entrance & Exit AI LPR Pro Bullet Plus Camera



Allowlist/Blocklist Management and No-plate Vehicle Detection

Entrance & Exit Management

- AI-powered LPR
- Allowlist/Blocklist Management
- No-plate Vehicle Detection
- Wiegand Protocol Supported for Access Control
- Evidence Camera Linkage
- LPR Smart Search

Superior Image Quality

- 1/8" Sensor & 0.001Lux Starlight
- WDR Supported
- 60fps High Frame Rate
- Smart IR II Technology
- 740nm/850nm Optional

More Highlights

- IP67 & IK10
- CGI/APIs Supported
- SIP/VoIP Supported
- Integrated Junction Box



Entrance & Exit AI LPR Bullet Camera



By Conventional Camera

By Milesight Camera

0.005Lux Ultra Low-light



Intelligent AI-powered LPR Algorithm

Entrance & Exit Management

- AI-powered LPR
- Allowlist/Blocklist Management
- No-plate Vehicle Detection
- Evidence Camera Linkage
- LPR Smart Search

Superior Image Quality

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

More Highlights

- IP67 & IK10
- CGI/APIs Supported
- SIP/VoIP Supported
- Integrated Junction Box (Optional)

Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera



Integrated IR LED Light or White LED Light



Wiegand Protocol Supported for Access Control

Entrance & Exit Management

- AI-powered LPR
- Allowlist/Blocklist Management
- No-plate Vehicle Detection
- Wiegand Protocol Supported for Access Control
- Evidence Camera Linkage
- LPR Smart Search

Superior Image Quality

- WDR Supported
- 0.005Lux Ultra Low-light
- 60fps High Frame Rate

More Highlights

- IP67 & IK10
- SIP/VoIP Supported

Entrance & Exit AI LPR Pro Dome Camera



Efficient & Simple Installation



Easy and Flexible Deployment

Entrance & Exit Management

- AI-powered LPR
- Allowlist/Blocklist Management
- No-plate Vehicle Detection
- Evidence Camera Linkage
- LPR Smart Search

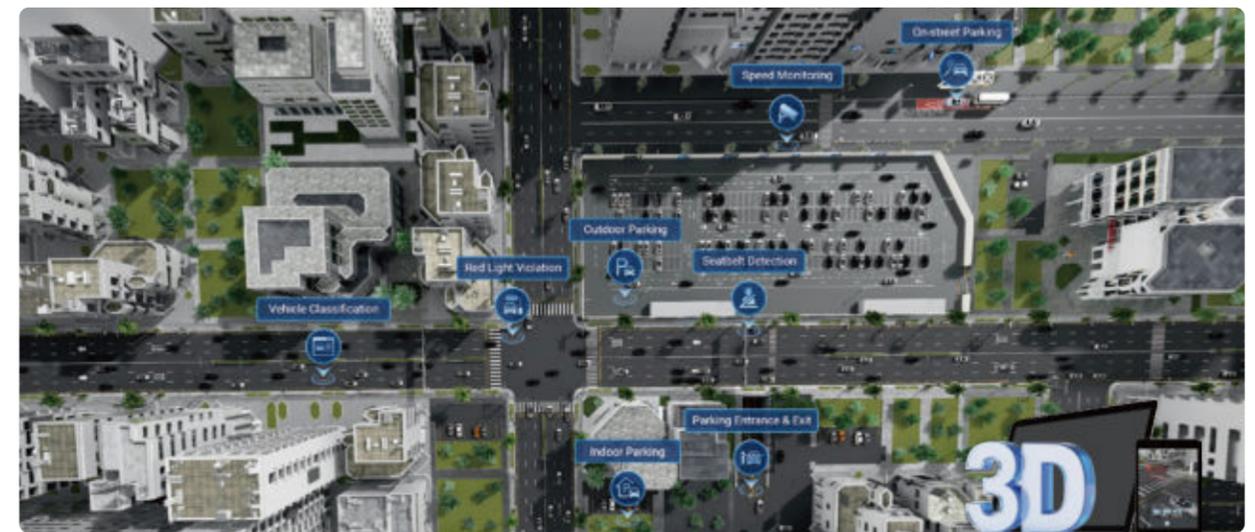
Superior Image Quality

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

More Highlights

- Efficient & Simple Installation
- IP67 & IK10
- SIP/VoIP Supported

Explore Milesight Traffic Solutions in 360°



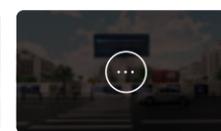
Discover Entrance & Exit



Parking Management



Road Traffic Management



and more scenes...



Scan QR Code to Experience Now!



MAKE SENSING MATTER

