■ Make Sensing Matter ■

Speed: 260km/h
Vehicle Type: Car
Vehicle Color: White
Plate: MS 1234C
Plate Color: White
Vehicle Brand: Mercedes-Benz
Detection Region: 2
Direction: Approach

MS 1234C

INTELLIGENT TRAFFIC SERIES

Product Brochure

*M*ilesight | www.milesight.com

www.milesight.com

*M*ilesight

CONTENTS

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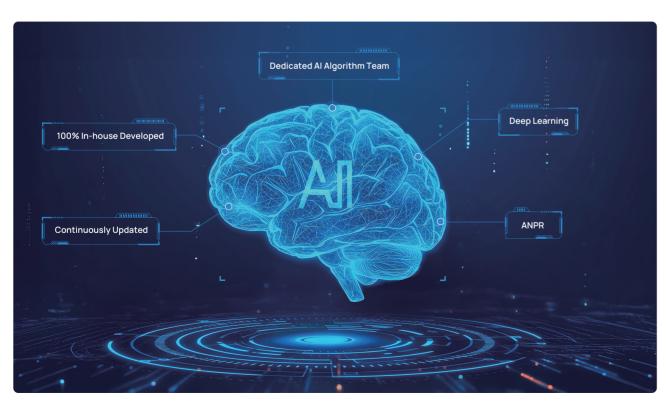
In the complex landscape of traffic management, reliability and efficiency are non-negotiable. At Milesight, we understand the critical role that intelligent traffic solutions play in ensuring the smooth flow of daily life. That's why we're proud to introduce the Milesight Intelligent Traffic Camera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

AI — AI Powered | NDAA — NDAA Compliant | Precise ANPR | Integrated 3D-Radar | Extensive Interoperability

Vehicle Type: Car
Vehicle Color: Blue
Plate: MS 1234C
Plate Color: White
Vehicle Brand: Mercedes-Benz
Detection Region: 2
Direction: Approach

MS 1234C

Milesight PlateXpert Technology

The Real LPR Expert Redefines Precision,
Designed for Milesight Intelligent Traffic Cameras

PlateXpert

Effortlessly Recognizing Plates of Every Kind

E 8888 DEF / C1 234 ABC	Ä, Ö, Ü **NEW**	33 1088 **NEW**	MS 0123 < 5°	E MS 1123 → E MS 1123	CC 10 014
Multi-line Plates	Special Characters	ADR Plates	Angled Plates	Reflective Plates	Low-contrast/ Faint-character Plates

Plate Attributes & Vehicle Attributes Recognition

Vehicle Type

Motorized Vehicle:

Car	SUV	Van	Bus	Non-motorized Vehicle: Bicycle
Fire Engine	Ambulance	Truck	Motorbike	E-Scooter **NEW**

Vehicle Brand

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

Plate Color

(black, yellow, green, white, blue, red)

Vehicle Color

(red, yellow, green, black, brown **NEW**, blue, grey, white, purple **NEW**)

Advanced & Deep Learning Algorithm Trained for Accuracy

Dedicated AI Algorithm Team

Deep Learning

100% In-house Developed

AI

Continuously Updated

ANPR

Over 50+ Countries & Regions Supported

D NK:SK 999

GB E 561 FCS

1233 DC 33

N 28085
DUBAI U.A.E

品川 580
00-00

01가 3274

Beautiful British Columbia
AAO·OOA

MH.43.BG.7317

XV·45DA
NATIONAL HEAVY VEHICLE

TrafficX Series

Double Vision, Double Power

TrafficX Enforcement Camera
TS5511-GH

Toll Gate

Red Light Violation Detection
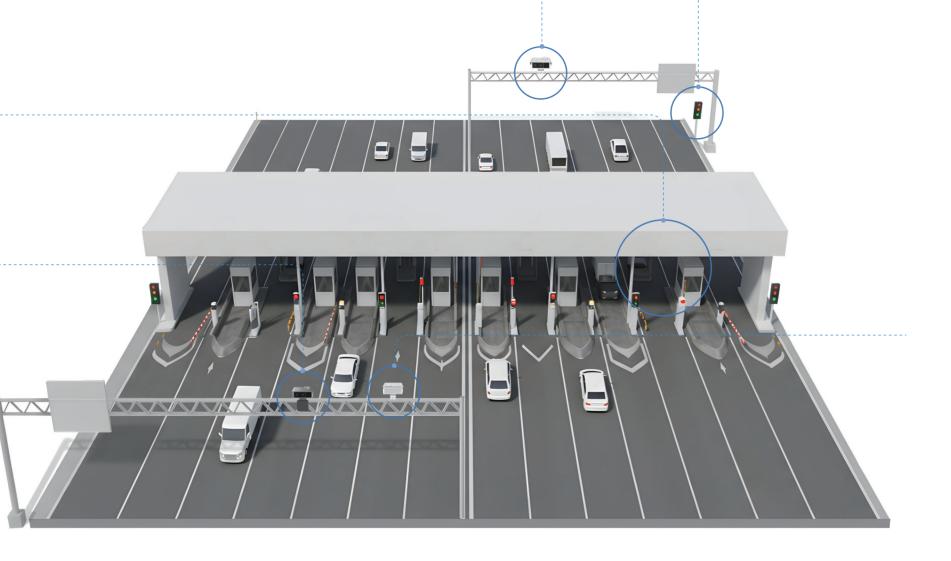
DualVision TrafficX Radar Camera
TS5510-GVH

TrafficX Camera
TS5510-GH

Speed Detection

Multi-lane Free Flow (MLFF)

▌ Series Highlights

99%	**98%**	**320km/h**	**AI**	**50m**	**2*5MP**	**2-3**
Capture Rate	License Plate Recognition Rate	ANPR & Speed Detection	Powered Onboard ANPR	ANPR Distance	Dual Lenses	Lanes Covering

TRAFFIC X SERIES

Milesight TrafficX Camera Series

Top-Tier Traffic Cameras for Most Demanding Traffic Applications

RadarV Technology

261km/h

Fuses radar data with video analytics for more accurate speed detection, vehicle classification and direction analysis,

Global Shutter Sensor

Eliminates motion blur and ensures crystal-clear plate images of fast-moving vehicles

Global Shutter

Rolling Shutter | Global Shutter

Frame Parity Flashing

Captures multiple images of the same vehicle under different illumination levels. The system automatically selects the clearest image -ensuring sharp captures of both reflective and non-reflective plates, as well as the vehicle body.

Frame Parity Flashing

Even Frame(short exposure) | Odd Frame(long exposure)

740nm/850nm IR Wavelength

Optimize license plate identification by utilizing our optional dual IR wavelengths (850nm and 740nm), enabling precise recognition across different contrast levels and lighting conditions.
850nm IR Wavelength: Ideal for High-contrast/Non-reflective License Plate.
740nm IR Wavelength: Ideal for Low-contrast/Reflective License Plate.

740nm IR | 850nm IR

▮ Built for the Most Demanding Scenarios

Urban Roads &Intersections

- Red Light Violation Detection
- Reverse Driving Detection
- Traffic Flow Management
- Speed Monitoring & Speed Enforcement

Highways

- Speed Monitoring & Speed Enforcement
- Highway Access Control
- ETC Toll Management

Low Emission Zones(LEZ)

- Identify non-compliant vehicles automatically and support sustainable city policies

▮ TrafficX Products

|	Dual Sensor	Dual Sensor	Dual Sensor
	DualVision TrafficX Camera	DualVision TrafficX Enforcement Camera	DualVision TrafficX Radar Camera
ANPR Recognizable Speed	Up to 250km/h	Up to 250km/h	Up to 320km/h
Special Detection	-	Red Light Violation Detection	Speed Detection with 24GHz Radar, Up to 320km/h
Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture, Vehicle Direction Detection		
Violation Management	Reverse Driving, Vehicle Attributes Event Detection		
Capture Rate	Up to 99%		
ANPR Accuracy	Up to 98%		
ANPR Distance	Up to 50m		
Resolution	2*5MP		
Optical Zoom	15-50mm, Motorized zoom and focus		
Illumination Distance	Up to 60m		
Global Shutter	Recommended for 2~3 lanes		
Lanes Coverage	Yes		
More Features	1TB SD Card for Edge Storage		
	4G LTE Network for Wireless Transmission (Optional)		
	Built-in GPS for Precise Location		

TrafficC Series

For More Efficient Road Traffic Management

Speeding Detection
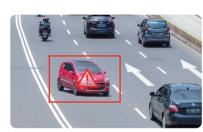
No-Plate Detection

Speed Monitoring

Traffic Flow Management

Specific Lane Management

Reverse Driving Detection

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 ANPR Camera
NDAA ✓

▌4G + Solar-powered for Efficient Remote Security

AI
AI features
Night-time IR

9-Day Battery Life with Continuous Recording

x 365 Days   x 1
2 Watts
Save 1 Tree a Year!

Go Green with Ultra-low Power Consumption

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

Flexible Working Mode for Enhanced Efficiency

4G

Up to 6*90Wh Battery & 2*90W Solar Panel

▌Sharp Image for Precise ANPR

- 4MP High-Quality Images
- Specialized 6mm/16mm Lens
- 850nm/740nm IR Wave Length
- Identification for Vehicle Type:
  Bicycle/Car/Motorcycle/Bus/Truck
- License Plate Recognition
- List Management/List Event
- No-plate Event

▌Uncompromising Quality, Unmatched Reliability

Built-in High-Accuracy GPS Module

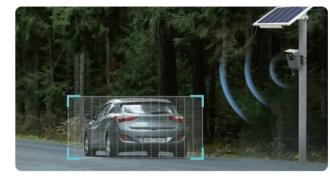VERIZON and AT&T Certificated

IP67 & Category 12 Typhoon Guaranteed

Battery Protection in -20°C to +60°C

4G Solar-powered Traffic Sensing Camera
NDAA ✓

▌Precise Real-time Capture with Radar & AI

Z Z Z
Low-power Operation Mode

Working Mode

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

Differentiated Appearance Design

Adjustable Pole Mount Bracket

4G Module

16mm/6mm Lens

IP66

▌Various Applications

Traffic Flow Collection

Entry&Exit Time Capture for Parking Lots

Illegal Parking Capture

AI Road Traffic Pro Bullet Plus Camera — NDAA

Professional AI-powered LPR Camera with Sharp Image

Do Recording　Show Notification
Show Text Overlay
Alert

Traffic Violation Detection

- AI-powered LPR Algorithm
- Vehicle Feature Recognition
- License Plate Recognition
- International Plate Support

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, 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

MS2078A
60m

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, DC 12V, RS485, Ethernet Port
- SIP/VoIP Supported
- Integrated Junction Box (Optional)

AI Road Traffic Radar Pro Bullet Plus Camera — NDAA

62km/h　48km/h　56km/h
E 561 FCS

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

1
2

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

Pan Range: 0~360°
Tilt Range: -5°~90°

Flexible Pan, Tilt and Zoom Tasks

630 feet

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)
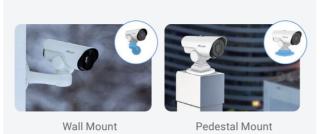- Various Accessories Optional
- SIP/VoIP Supported

AI Road Traffic PTZ Bullet Camera

NDAA ✓

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

360° Endless Pan & 75° Tilt

Wall Mount   Pedestal Mount

Various Installation Modes

Superior Image Quality
- 12X(5.6~64mm) AF Lens
- 90fps High Frame Rate

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

More Highlights
- 3D Positioning
- IP66
- SIP/VoIP Supported

AI Road Traffic PTZ Bullet Plus Camera

NDAA ✓

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

360° Endless Pan & 75° Tilt

Zoom in
Zoom out

3D Positioning

Superior Image Quality
- 5X/12X/20X/23X AF Lens
- 1/1.8'' Sensor & 0.002Lux Starlight
- 90fps High Frame Rate

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

More Highlights
- IP66
- SIP/VoIP Supported
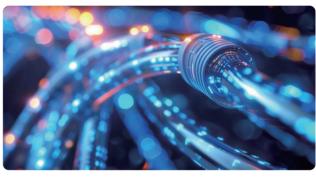
AI Road Traffic 5G Pro Bullet Plus Camera

Built-in 5G Module for Wireless Streaming

Broad Extensibility

Low Latency & High Bandwidth

Efficient Data Transmission with High Resolution

Superior Image Quality
- 4X Optical Zoom
- 60fps High Frame Rate
- 1/8'' Sensor & 0.005Lux Starlight

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

More Highlights
- IP67 & IK10
- SIP/VoIP Supported
- Integrated Junction Box

Parking Management Series

Driving Safety and Efficiency in Parking Management

Entrance & Exit Management

• AI-powered LPR Algorithm
• Black/White List
• No-plate Vehicle Detection
• Wiegand Interface for Access Control
• Integrated Supplement Light

Indoor Parking Guidance

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

Video Surveillance

• Image Capturing and Video Recording for Vehicle Security Incidents

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)

On-street Parking Management

• Parking Occupancy Detection & Residence Time
• Parking Violation Detection

▍ Series Highlights

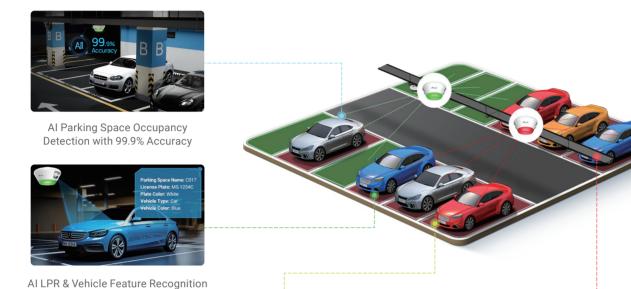|						
Indoor Parking Guidance Camera	Parking Management Camera	Parking Management 5G Camera	Entrance & Exit AI LPR Pro Bullet Plus Camera	Entrance & Exit AI LPR Bullet Camera	Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera	Entrance & Exit AI LPR Pro Dome Camera

Indoor Parking Guidance Camera

NDAA ✓

AI Parking Space Occupancy Detection with 99.9% Accuracy

AI LPR & Vehicle Feature Recognition

Parking Space Name: C017
License Plate: MS-1234C
Plate Color: White
Vehicle Type: Car
Vehicle Color: Blue

IP65

Semi-open Parking Building

Underground parking garage

Red (All Occupied)   Green (Available)   Blue (Available for Special Parking)

Perfect for Indoor & Semi-open Parking Lots

Multi-color Customizable Indicator

▎ More Highlights

Welcome!

Audio Output for External Speaker

Visualized Central Management   Indoor Parking Guidance Camera   Parking Guidance Screen

AVAILABLE LOTS
78 ↑   66 ↑

Flexible Integration with CGI/APIs

100m   100m   100m   100m   100m   100m

Daisy-chain for Easy Installation

IP65

IP65 Rated Robust Performance

Parking Management Camera

Parking Violation

Parking Violation Management
Identify and Record Illegal Parking Behaviors

Up to **100**

Occupancy Detection
Up to 100 Parking Spaces

AI LPR

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

4K
Normal Camera
Milesight Camera
24/7

Excellent Scene Adaptability

HTTP(s)
$ 3rd Integrated: CGI/APIs

High compatibility

• 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

Unique Structure Design

Partition Numbering & Custom Area Name
Example: A1, A2; B1, B2; C1, C2

Distribution
Horizontal/Vertical

Numbering Scheme
Increase/Decrease

Flexible Configuration

• 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

Occupancy Detection
Up to 100 Parking Spaces

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

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

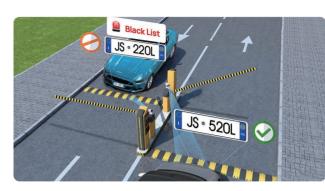**Efficient Data Transmission with High Resolution**

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

Entrance & Exit AI LPR Pro Bullet Plus Camera

NDAA

Black/White List and No-plate Vehicle Detection

Entrance & Exit Management
- AI-powered LPR
- Black & White List
- 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 (Optional)

Entrance & Exit AI LPR Bullet Camera

NDAA

0.005Lux Ultra Low-light

Intelligent AI-powered LPR Algorithm

Entrance & Exit Management
- AI-powered LPR
- Black & White List
- 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

ABC1234
Vehicle Type: Car
Vehicle Color: Blue
Plate Color: White
Plate: ABC1234

24/7

Integrated IR LED Light or White LED Light

Wiegand Protocol Supported

Access Control System

MS 1234C

Wiegand Protocol Supported for Access Control

Entrance & Exit Management
- AI-powered LPR
- Black & White List
- No-plate Vehicle Detection
- Wiegand Protocol Supported for Access Control
- Evidence Camera Linkage
- LPR Smart Search

Superior Image Quality
- 140dB Super WDR
- 0.005Lux Ultra Low-light
- 60fps High Frame Rate

More Highlights
- IP67 & IK10
- SIP/VoIP Supported

Entrance & Exit AI LPR Pro Dome Camera

90°

A

B

Efficient & Simple Installation

White List
MS 12345D

Embedded AI LPR Algorithm

Easy and Flexible Deployment

Entrance & Exit Management
- AI-powered LPR
- Black & White List
- 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°

Immersive. Interactive. Instantly Accessible.

Vehicle Classification

Speed Monitoring

Red Light Violation

Indoor Parking

Roaf Traffic Enforcement

Outdoor Parking

360°

On-street Parking

Speed Monitoring

Outdoor Parking

Seatbelt Detection

Red Light Violation

Vehicle Classification

Parking Entrance & Exit

Indoor Parking

3D

Discover Entrance & Exit

Parking Managment

Road Traffic Management

and more scenes...

Scan QR Code to Experience Now!

MAKE SENSING MATTER