

- Make Sensing Matter ■



V10.5



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Milesight

CONTENTS

About Us

01

Why Milesight

02

Quality & Reliability

03

Superior Image Quality

05

User-Centric Design

07

Milesight AI Algorithms

09

Milesight PlateXpert Technology

11

Video Surveillance Series

13

Milesight Solar-powered Series

13

Q Series

15

Mini Series

17

Pro Series

19

PTZ Series

21

Panoramic Series

23

5G Series

25

Intelligent Traffic Series

27

TrafficX Series

27

TrafficC Series

29

Parking Management Series

31

OpenVision Series

33

OpenVision Series

33

NVR

37

NVR Series

37

PoE NVR Series

38

Enterprise NVR Series

39

PoE Switch

40

Software

41

Accessories

42



About Us

Milesight offers multi-potential sensing products to capture the most meaningful data and makes it accessible across diverse applications. It innovatively applies emerging technologies such as AI, 5G, and IoT to distinct use scenarios. With a commitment to making sensing matter, Milesight quickly responds to customer-specific challenges and collaborates with an expanding network of partners to deliver unique data value. It is determined to make real, positive impacts in smart buildings, intelligent traffic, intelligent security, smart cities, and beyond.



600+
Employees



2000+
Distributors and
System Integrator
Partners



120+
Serves to
120+ Countries
and Regions



2
Focus on 2 Product
Lineups: Smart IoT
and Video Surveillance

Unique Aesthetic Product Design



Distinctive Exterior Design

The sleek and elegant design distinguishes Milesight Cameras.

Design Language

Milesight cameras' streamlined design form and smooth lines not only enhance its aesthetic appeal but also provide a distinct visual difference that catches the eye.



Award-winning Design

The Highest-Quality Authenticated:
Milesight Indoor Parking Guidance Camera
Wins IF Design Award.



Quality & Reliability



-  Attention to Detail
-  Premium Texture
-  Hardware and Protective Design



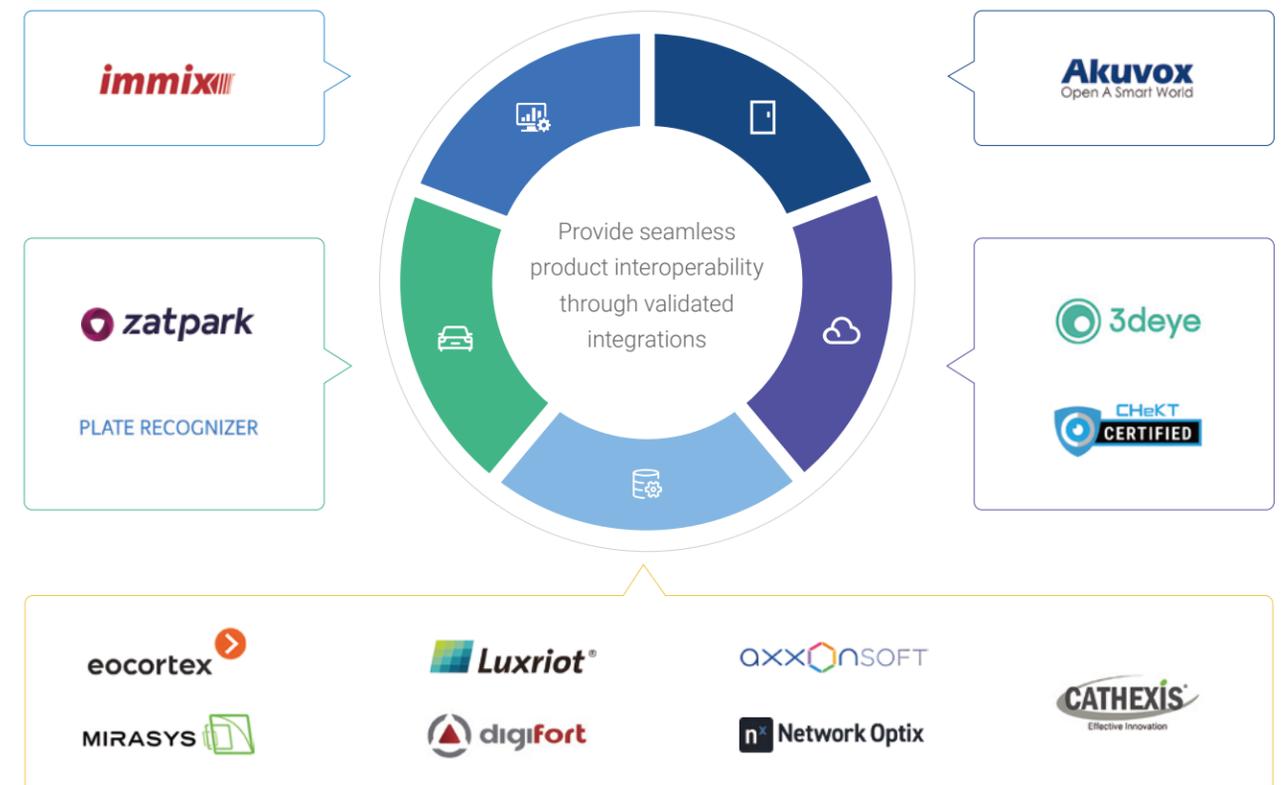
Certification

We are certificated with CE, FCC, UL, Verizon, etc., meeting the daunting and demanding requirements of global security industry.



Ecosystem Management

Open Platform & Third-party Algorithm Integration



Superior Image Quality

Milesight cameras deliver outstanding performance with advanced features for professional surveillance. They ensure vivid image quality with 140dB WDR, HLC, and BLC, while offering optical zoom from 3X to 42X for detailed capture.

Supporting high frame rates up to 100fps and low-light performance with 0.001Lux sensitivity and Smart IR II Technology, they excel in both day and night environments. With wide-angle viewing (180°/360° panorama) and high resolutions up to 12MP, including 4K, Milesight cameras provide clear, smooth, and expansive coverage.



TrueColor Image



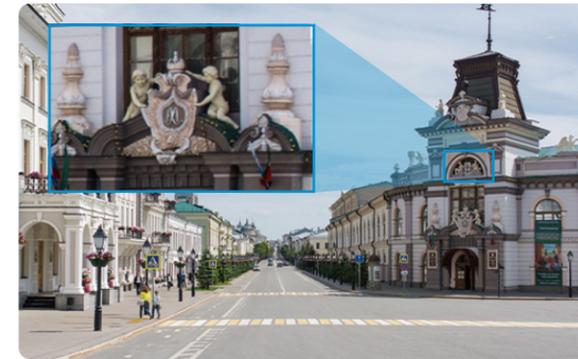
- Smart Hybrid Light
- F1.0 Large Aperture
- 1/1.8" Big Sensor
- AI ISP
- Super Day-Night Focus Lens
- Precision AA Process

Low Light Performance



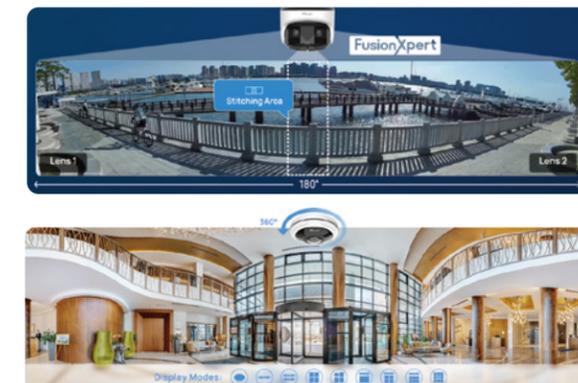
- 0.001Lux Ultra Low-light
- Smart IR II Technology

Optical Zoom



- 4X/12X/20X
- 23X/30X/36X/42X

Wide Angle Viewing



- 180°/360° Panorama
- Multi-directional Coverage

High Frame Rate



- 60fps/90fps/100fps

High Resolution



- 2MP/5MP/6MP/4K/12MP



User-Centric Design

Succinct Structure



Product Structure Features



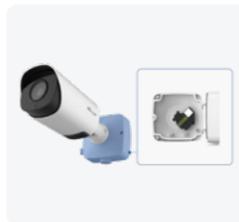
Recessed Installation



3-Axis Design



Panel Bracket



Integrated Junction Box



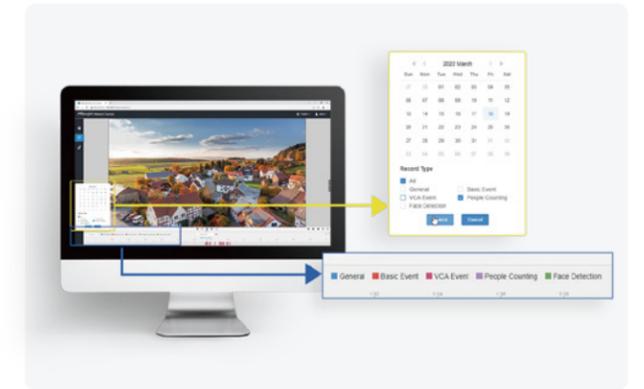
Clamshell Design



User-friendly UI Design



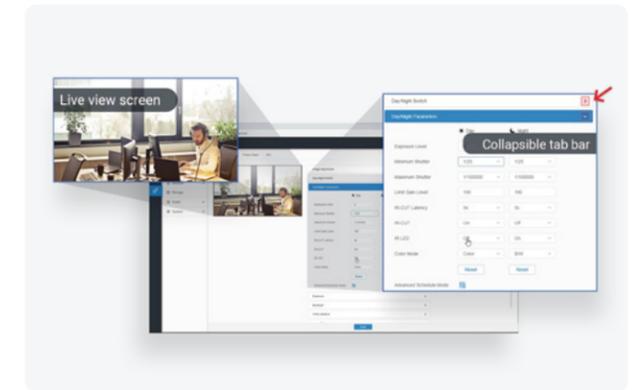
Simple Structure for Smooth Video Surveillance



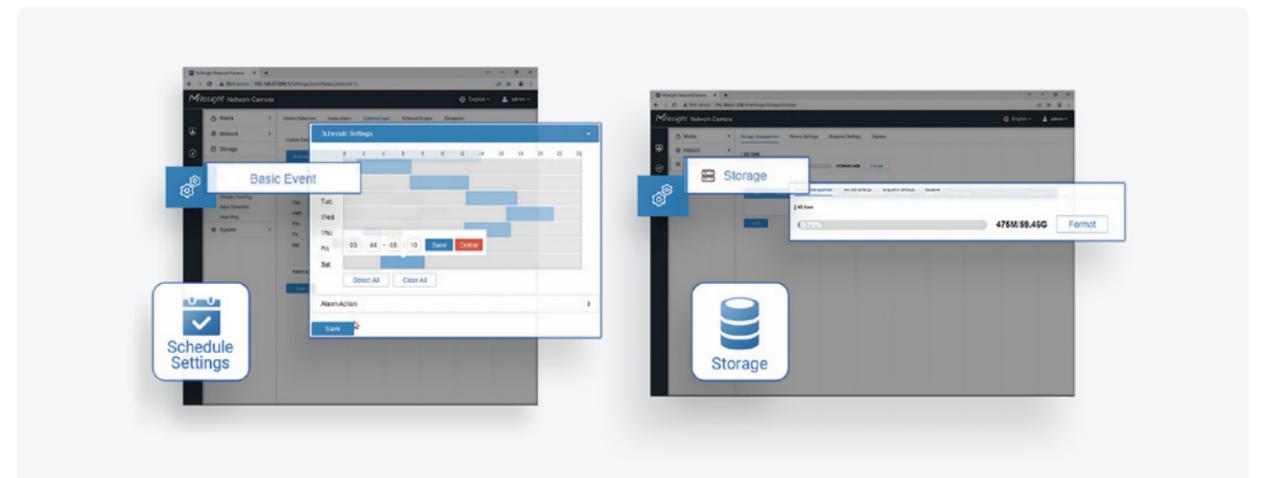
Quick Playback to Focus More on What Matters Most



Professional Mode Interface for Specific Applications



Easy Configuration for Efficient Operations



Better Visualized & Interactive Designs



Milesight AI Analytics

AI at the Edge, Intelligence in Every Frame



What Powers Milesight AI



VCA 2.0
Built for Security Accuracy



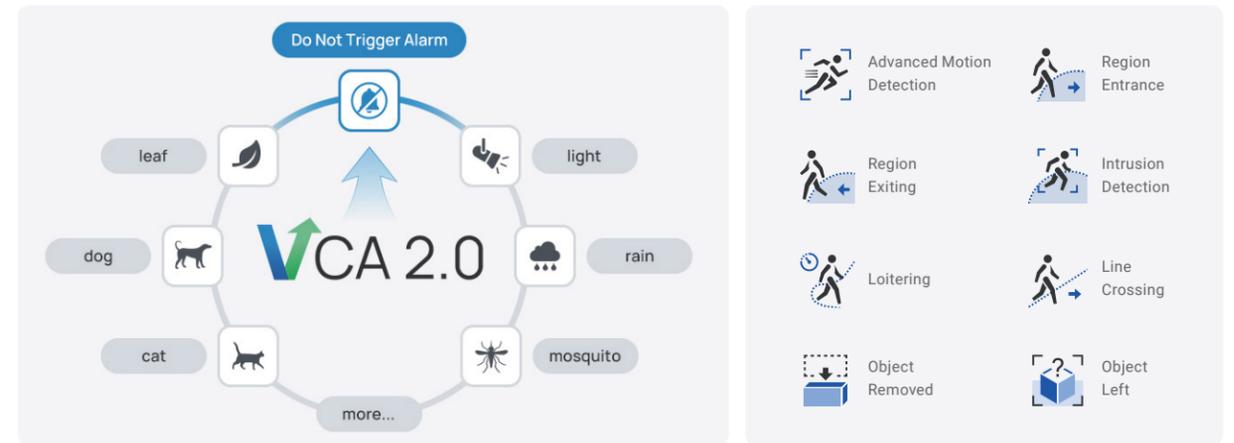
MSense
Built for Vertical Intelligence



VCA 2.0

Upgraded Video Content Analysis Algorithm, Built for Essential Security Tasks

- 8 built-in AI VCA features for instant threat detection
- Accurate recognition of small and multiple targets
- Super Low False Alarm Rate



MSense

Unlocks Deeper Insights for Industry-specific Needs

- A wide range of advanced, self-developed algorithms
- Purpose-built for diverse vertical applications
- Delivers actionable insights based on behaviors, counts, and attributes
- Generates metadata to support smart search, reporting, and alert linkage





Milesight PlateXpert Technology

Precision Redefined Beyond ANPR

PlateXpert

PlateXpert

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

MS 1234C



≥99% Capture Rate



≥98% ANPR Accuracy



50+ Countries Supported



0.1 Second Recognition Time



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

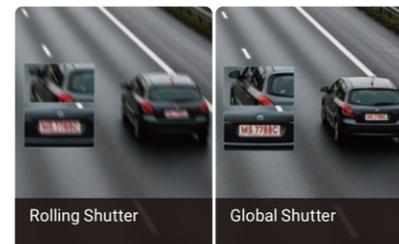
Vehicle Color

Core Technologies for Precise Recognition

Frame Parity Flashing



Global Shutter



740nm/850nm Wavelength





Solar-powered Series

Designed for Off-grid & Remote Security



4G Solar-powered Perimeter Sensing Camera
SC411



4G Solar-powered Camera Kit
SP111 · SP111/41



4G Solar-powered Traffic Sensing Camera
SC211



4G Solar-powered Perimeter Sensing Camera

Wireless perimeter defense with AI visual verification



- **PIR + AOV + AI Tri-sensing**
Ultra-low false alarms with 30m detection distance
- **Low-power Design**
Extends battery life for long-term operation
- **4MP Image & Recording**
F1.0 large aperture & 1/1.8" CMOS
- **Wireless Deployment**
4G/WiFi connectivity + solar powered

4G Solar-powered Camera Kit

Eco-friendly Security for Off-grid & Remote Area



4G Solar-powered Security Camera

- 2.8mm/6mm Lens
- Perimeter Protection & Proactive Defense
- Illegal Dumping Detection
- Vehicle/Human Classification

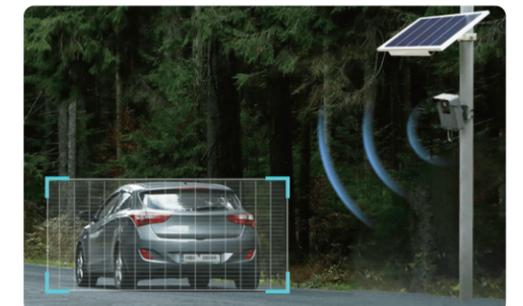
4G Solar-powered ANPR Camera

- 6mm/16mm Lens
- Comprehensive License Plate & Vehicle Type Recognition
- Efficient List Management & List Event No-plate Event

4G Solar-powered Traffic Sensing Camera

Deploy with Ease, Capture with Precision

- Real-time Vehicle Capture by Radar & AI
- Low-power Mode for Energy Efficiency
- Solar-powered for Constant Use
- 4G LTE for Wireless Data Transmission
- Adjustable Pole Mount Bracket for Flexible Deployment





Q Series

See in TrueColor, Stay On-Guard



Milesight AI TrueColor
Bullet Network Camera
4/5/8MP



Milesight AI TrueColor
Dome Network Camera
4/5/8MP



Milesight AI TrueColor
Turret Network Camera
4/5/8MP



Key Highlights of Milesight Q Series

TrueColor Image

- 4/5/8MP
- Smart Hybrid Light
- F1.0 Large Aperture & 1/1.8" Big Sensor
- AI ISP
- Super Day-Night Focus Lens
- Precision AA Process

Built-in Deterrence

- AI-triggered Audio-Visual Alarms
- Red & Blue Flashing Lights
- Built-in Speaker & Dual Mic
- Real-time Alarms to Deter Intrusions

Smarter AI

- VCA 2.0 with Ultra-low False Alarm Rate
- Up to 75m AI Detection Distance
- MSense: Face Capture & Object Counting & Heat Map

Easy Deployment

- One-Screwdriver Installation
- ONVIF & Third-party Platform Ready
- Sustainable Eco-friendly Packaging
- IP67 & IK10

How It Works - Smart Hybrid Light

01

IR Mode Activated

Infrared lights turn on in a quiet environment, delivering clear images for round-the-clock monitoring.



02

Event Detected-Switch to Full-Color

Camera automatically switches full-color lighting upon detecting an event, revealing more details.



03

Active Deterrence Triggered

Built-in strobe lights and speaker activate instantly to warn the intruder.

**Red & blue lights support default-off*



04

Return to IR Mode

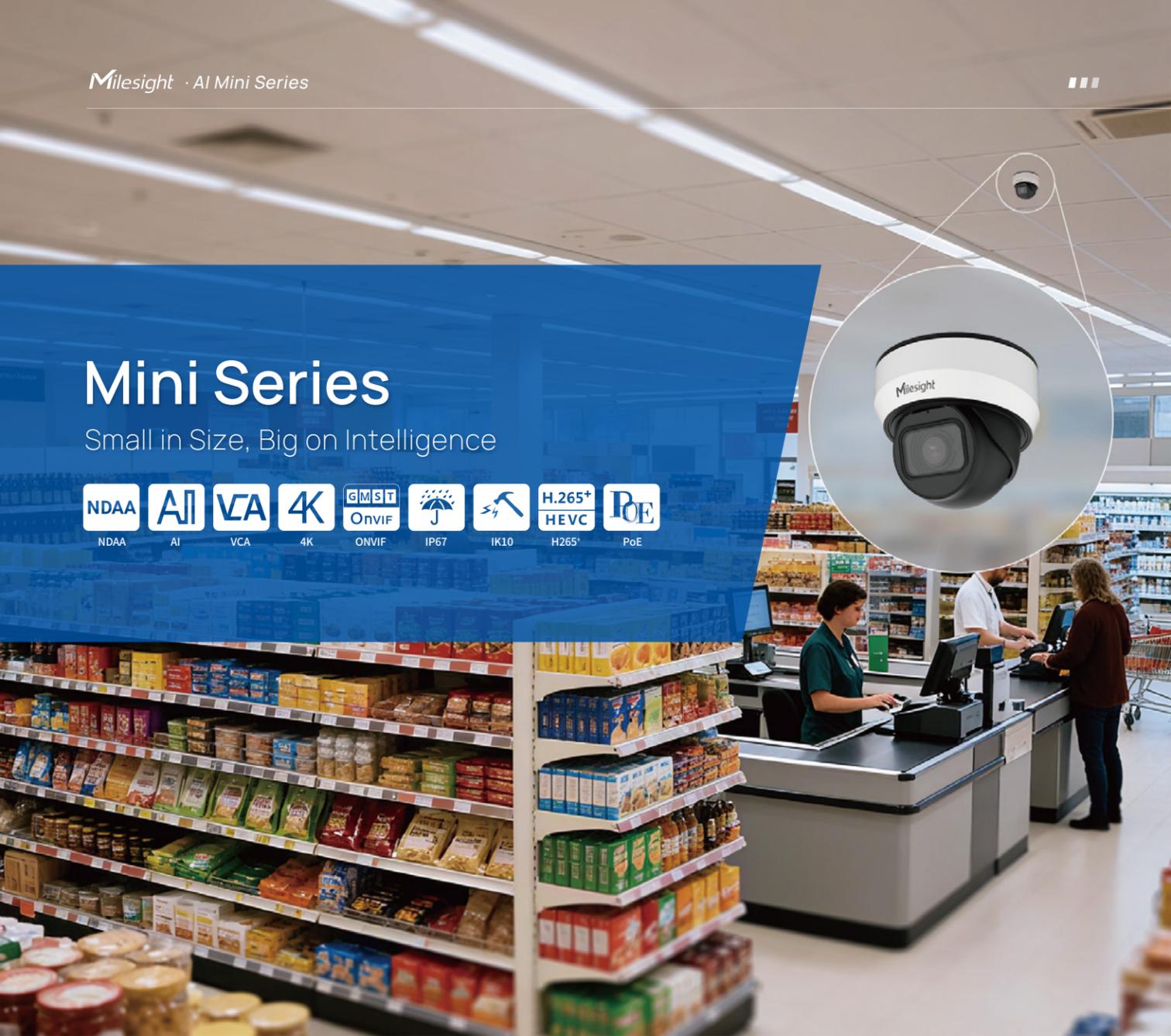
Once the event has passed, the system switches back to IR mode, ensuring efficient and non-intrusive surveillance.





Mini Series

Small in Size, Big on Intelligence



Key Features

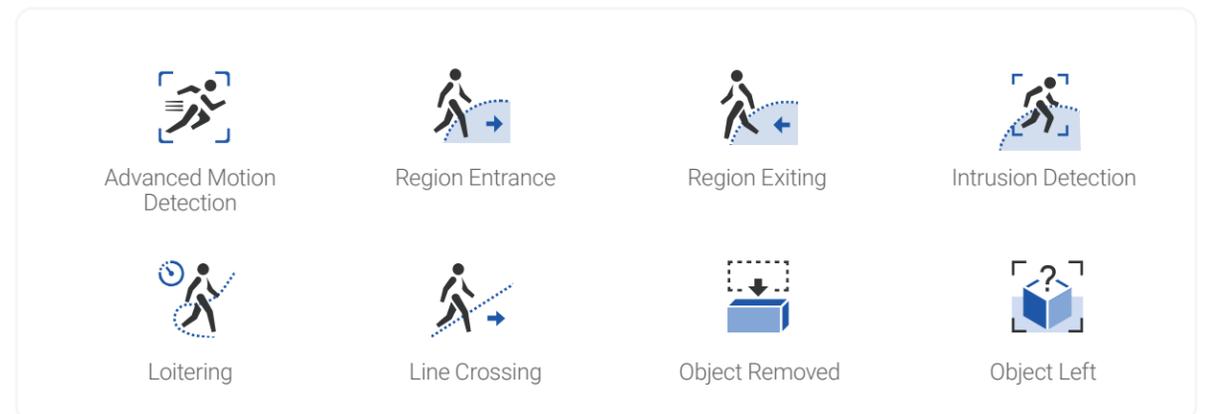
- 2MP@90fps, 4MP@30fps, 5MP@30fps, 4K@30fps
- 4K Ultra High Resolution
- Smart IR II with 50m IR Distance
- 140dB Super WDR
- IP67 & IK10
- Fixed Lens & Motorized Zoom Lens
- Multiple Interfaces & Built-in Microphone
- P-Iris
- SIP/VoIP

Unique Structure Design



- Recessed Installation
- Ultra Compact Size
- Clamshell Design
- 3-axis Mechanical
- Point-contact Power Supply
- Better Thermal Design

AI Functions as Standard



AI IR Mini Dome Camera
2/4/5/8 MP



AI Vandal-proof Mini Dome Camera
2/4/5/8 MP



AI Motorized Dome Camera
2/4/5/8 MP



AI Weather-proof Mini Dome Camera
2/4/5/8 MP



AI Vandal-proof Mini Bullet Camera
2/4/5/8 MP



AI Motorized Mini Bullet Camera
2/5/8 MP



AI Weather-proof Mini Bullet Camera
2/5/8 MP

Pro Series

From PRO to PROer, Built for Project-Grade Security



PROer

New AI

VCA 2.0



VCA 2.0: Ultra-low False Alarm Rate
Up to 80m AI Detection Distance (Motorized Lens), 170m (AF Lens)

- Multiple Targets
- Small Targets
- Vehicle Types

Attribute Extraction



Behavior Detection



New in Imaging

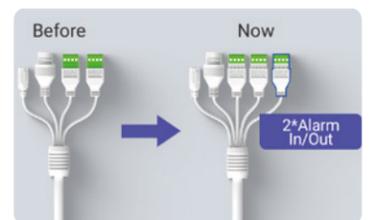


Better Night Vision

New in Usability



Quad Stream Support



Dual Alarm I/O



AI 4X/12X Pro Bullet Plus Camera
2/4/5/6/8 MP



AI Motorized Pro Bullet Plus Camera
2/4/5/6/8 MP



AI Motorized Pro Bullet Camera
2/5/6/8 MP



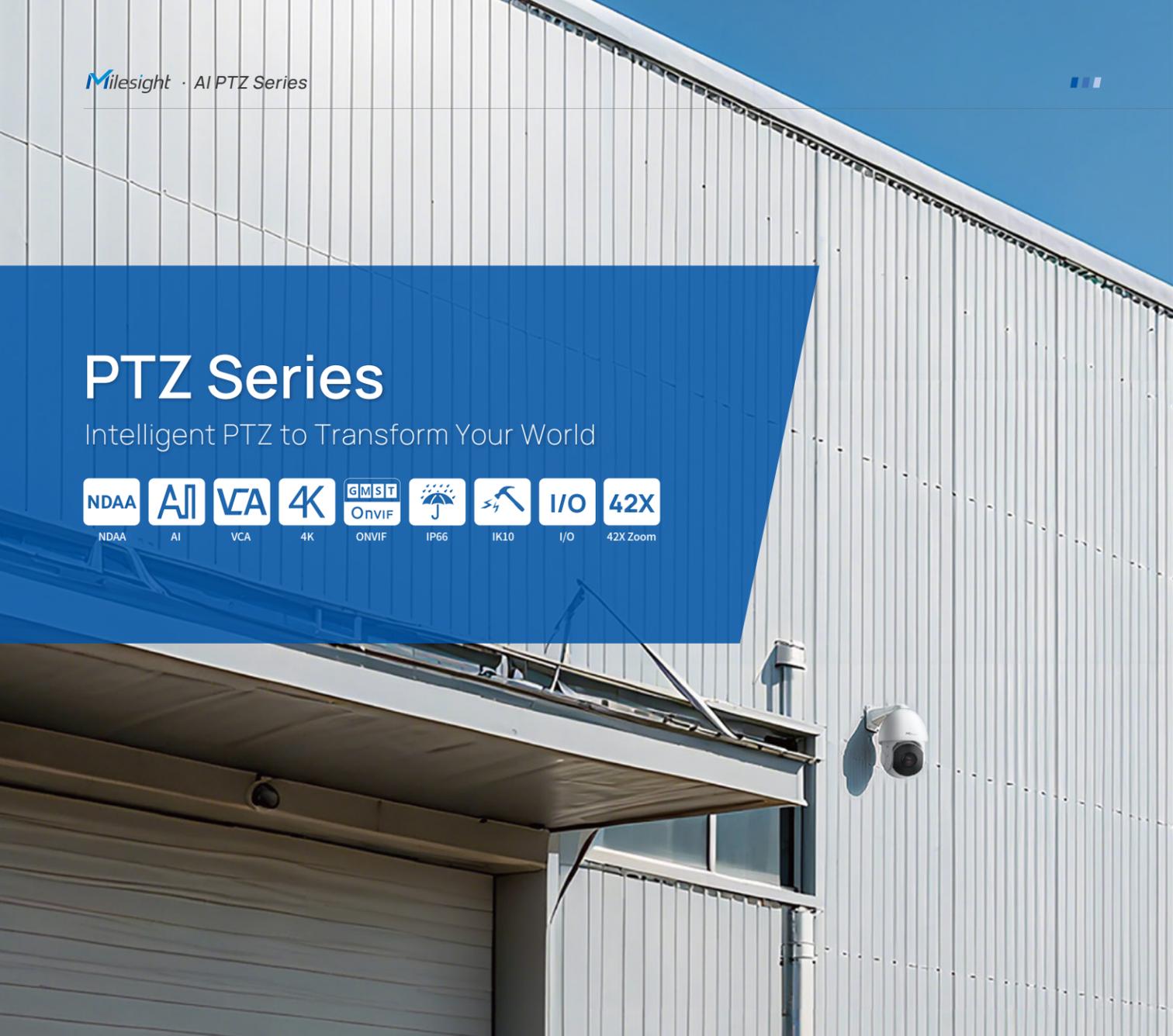
AI Motorized Pro Dome Camera
2/4/5/6/8 MP



AI Pro Box Plus Camera
2/4/5/8 MP

PTZ Series

Intelligent PTZ to Transform Your World



Precise PTZ Tasks

- 12X-42X Optical Zoom
- 360° Endless Pan & 90° Tilt
- Pan Speed up to 350°/s
- Tilt Speed up to 360°/s
- Applied TMR technology
- Structural Precision Less than 0.1°
- 300 Presets & 8 Patrol Paths & 4 Patterns



AI Video Analytics

- 8* Standard VCA Events
- Object Counting
- Regional People Counting
- Face Detection
- Hard Hat Detection
- Smoke & Fire Detection
- Attribute Extraction



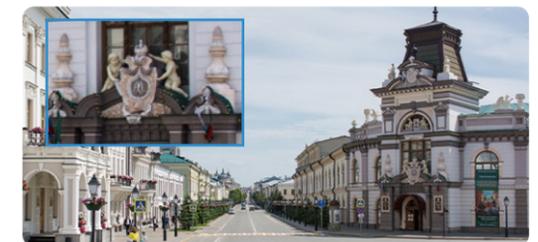
Advanced Functions

- PTZ Auto Tracking
- PTZ Privacy Mask
- Intelligent White LED
- 3D Positioning
- Smart Rain-sensing Wiper



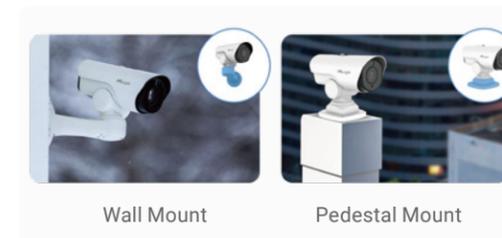
Outstanding Viewing Experience

- 1/1.8" STARVIS Starlight Sensor
- 4K & 100fps
- 0.002Lux Starlight
- 140dB Super WDR
- Smart IR II with 300m IR Distance



Superior Structure

- Wall Mount / Pedestal Mount
- Recessed Installation



Versatile Interface

- Audio I/O, Alarm I/O, PoE
- AC/DC 12V, RS 485



AI 12X PTZ Bullet Camera
2/5/8MP



AI 12X/20X/23X PTZ Bullet Plus Camera
2/4/5/8 MP



AI 12X/20X/23X PTZ Dome Camera
2/4/5 MP



AI 25X/30X/36X/42X Speed Dome
2/4/5/8 MP

Panoramic Series

Boudless World, Truly Within Reach



AI TrueColor Dual-sensor
180° Panoramic
Network Camera



4x5MP
AI Multi-directional
Camera



AI 360°
Panoramic
Fisheye Camera



AI 180°
Panoramic Mini
Bullet Camera



AI 180°
Panoramic Mini
Dome Camera

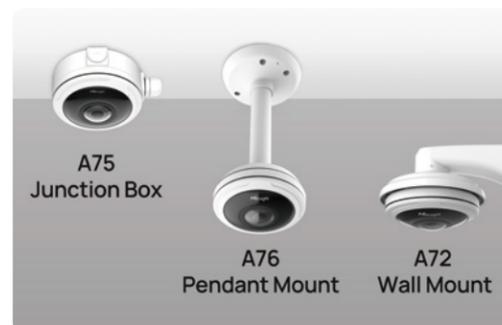
Outstanding Viewing Experience

- 180°/360° Panoramic
- FusionXpert Seamless Stitching
- Up to 12MP
- Superior Image Dewarping
- Onboard/Client-side dewarping
- AI ISP for Outstanding Image Quality
- 1/1.8" STARVIS Starlight Sensor
- 140dB Super WDR



Exquisite Design

- Contact Power Supply Design
- Maximized Installation Flexibility
- Built-in Mic, Alarm I/O, Audio I/O, DC 12V



Intelligent Video Analysis

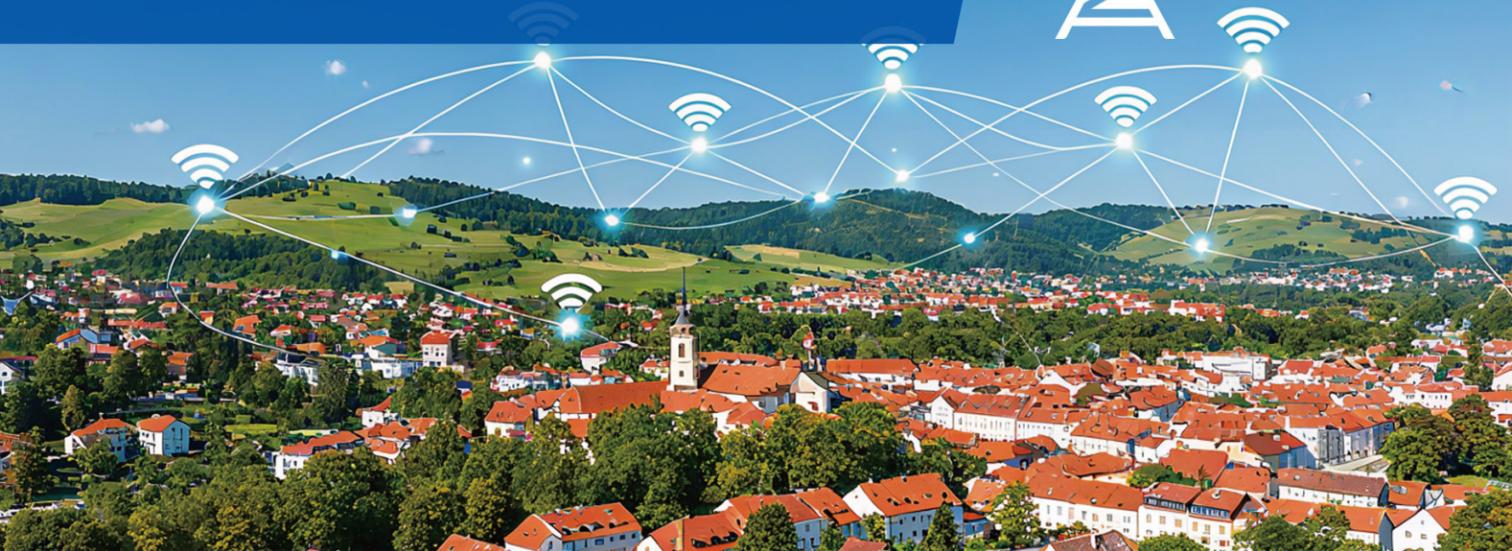
- 8*AI VCA Events
- E-Scooter Detection
- Advanced Heat Map
- People Flow Analysis
- Object Counting





5G Series

Empower the Future of Smart Connectivity



Industry-leading 5G Technology

- High Bandwidth
- Low Latency
- High Mobility
- Broad Extensibility



Cutting-edge IoT Technology

- Support Standard LoRaWAN® Protocol
- 8 End-devices Simultaneously
- Built-in Network Server
- Support MQTT/HTTP/HTTPS API

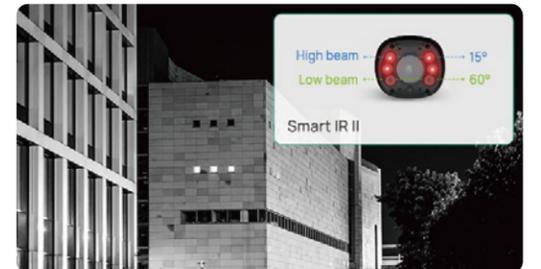


Outstanding Viewing Experience

- 4K Video Viewing Experience
- 1/1.8" Starlight Sensor

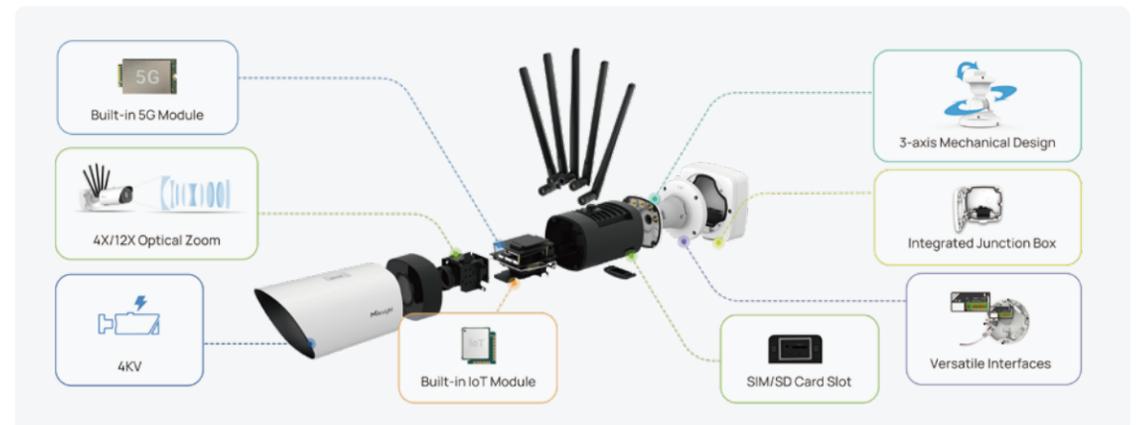


- 140dB Super WDR
- Up to 180m IR Distance



Easy Deployment & Compact Structure

- Built-in 5G Module
- Built-in IoT Module
- 3-axis Mechanical Design
- Integrated Junction Box



5G AIoT 4X/12X Pro Bullet Plus Camera
2/8MP



5G AI 4X/12X Pro Bullet Plus Camera
2/8MP



5G AI Motorized Pro Bullet Plus Camera
2/5/8MP

TrafficX Series

For More Demanding Traffic Applications

- Dual-lens
- AI ISP
- LPR
- 320km/h
- IP67
- GPS
- 4G
- ONVIF G/S/T
- Radar
- Global shutter



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



Global Shutter



740nm/850nm Wavelength



Comprehensive Traffic Violation Detection



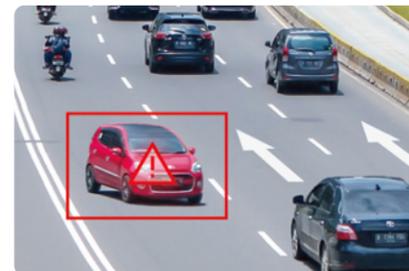
Red Light Violation Detection



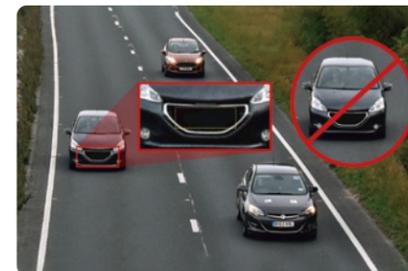
Speed Detection



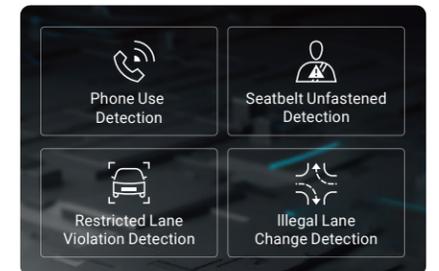
Phone Use Detection & Seatbelt Unfastened Detection



Reverse Driving Detection



No-Plate Detection



Upcoming Functions



DualVision TrafficX Camera
TS5510-GH



DualVision TrafficX Enforcement Camera
TS5511-GH



DualVision TrafficX Radar Camera
TS5510-GVH



SingleVision TrafficX Camera
TS5020-GIE

TrafficC Series

For Road Traffic Monitoring & Management



4G Solar-powered ANPR Camera



4G Solar-powered Traffic Sensing Camera



AI Road Traffic Pro Bullet Plus Camera



AI Road Traffic Radar Pro Bullet Plus 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 Speed Dome Camera



AI Road Traffic 5G Pro Bullet Plus Camera

AI LPR & Vehicle Attributes Recognition

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
- Mercedes-Benz
- BMW
- Mazda
- Tesla
- Honda
- Volkswagen
- Ford
- Jeep
- Lexus
- Maybach

Plate Color

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

Vehicle Color

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

Plate Number

X-123X

ADR License plate

33
1088

Violation Management

- Reverse Driving Detection
- Specific Lane Management (BUS lane)
- Speed Monitoring & Speeding Detection (200km/h)
- No-Plate Detection
- Mobile Surveillance
- On-street Parking Violation Detection (NO PARKING sign)
- Traffic Flow Management

More Highlights

- 2-Lane Coverage
- Up to 160km/h Vehicle Speed
- 3D Radar Technology
- Supplement Light for Challenging Lighting
- LPR Smart Search



Parking Management Series

For Smarter & More Efficient Parking



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



Entrance & Exit Management

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



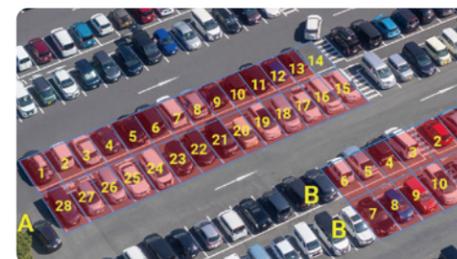
Indoor Parking Guidance

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



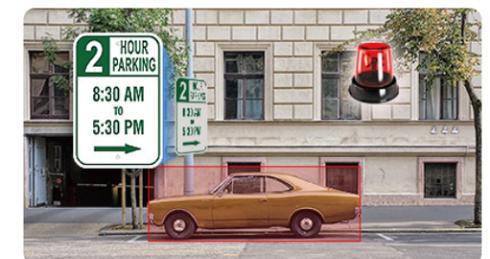
Video Surveillance

- Image Capturing and Video Recording for Vehicle Security Incidents



Outdoor Parking Management

- Occupation Detection (Up to 100 Spaces)
- LPR Parking Detection (6 Spaces & License Plate Recognition)



On-street Parking Management

- Parking Occupancy Detection & Residence Time
- Parking Violation Detection



Milesight OpenVision Camera

VMS on Edge, Secure Distributed Sites Without a Server



Miletage OpenVision Bullet Camera
5/8MP

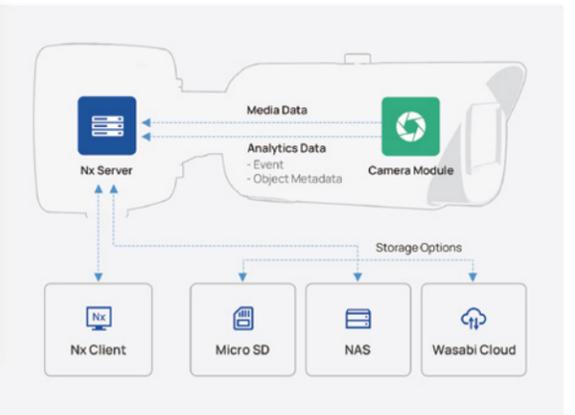


Miletage OpenVision Dome Camera
5/8MP

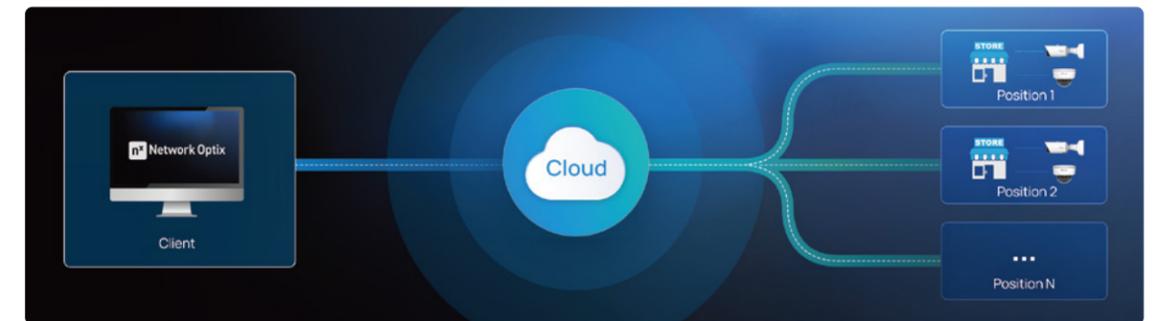


Camera as a server, no NVR and additional server needed

Features	On-premise VMS Surveillance System	Miletage OpenVision Camera
Additional Server Requested	Yes, Required	No, embedded into camera
Hardware Costs	High	Low
Operational Costs	High	Low
Storage	Hard Disk	SD Card
Full VMS Capability	Yes, complete VMS features	Yes, complete VMS features
Recommended Scenario	Large-scale deployments at single locations	Distributed installations with multiple sites



Applications



-  **Built-in Nx Server**
 A fully functional Nx Witness server embedded in camera
-  **Direct Edge Recording**
 Support local recording with 1TB storage capability
-  **Built-in Milesight Plugin**
 Enable advanced AI analytics event and metadata for Milesight cameras
-  **Secure Data**
 Data is more secure without streaming video between camera and server
-  **Seamless Integration with Nx Cloud**
 Connect directly to Nx Cloud, enables direct communication between camera and client
-  **Future-ready for Going Beyond**
 Stay ahead with Nx's latest innovations, including Nx AI Manager and more



Milesight OpenVision Server

Plug & Play with Built-in Nx Server

n^x Network Optix

Built-in Nx VMS



Milesight OpenVision Server
Up to 16CH
Up to 20TB Storage

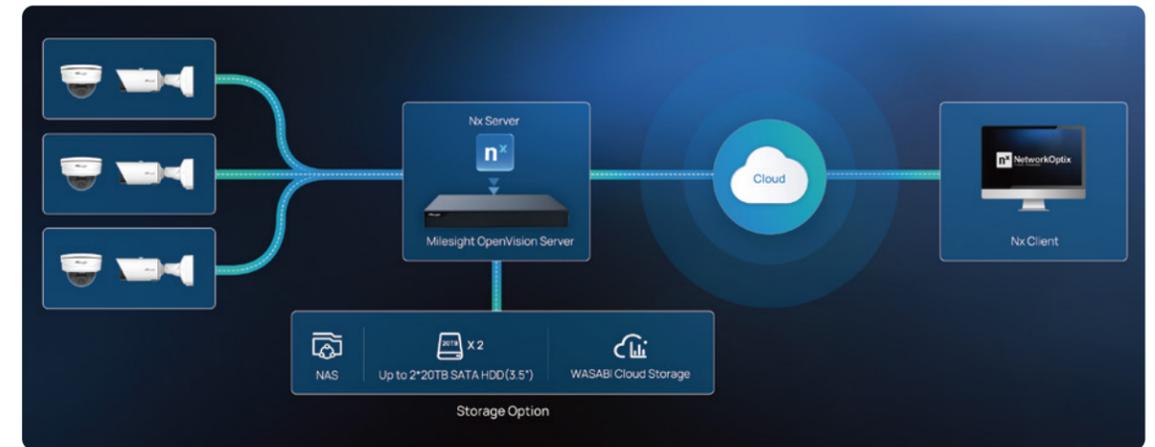


Milesight OpenVision Server Mini
Up to 8CH
Up to 8TB Storage



What is Milesight OpenVision Server

Milesight Openvision Server is a pre-configured, plug-and-play surveillance platform that comes with Nx VMS Server embedded. Designed for fast and hassle-free deployment, it combines powerful hardware and intelligent video management software in one compact system.



Pre-installed VMS for Instant Setup



Linux-based & Stable Operation



Empower Camera Analytics on Nx with Built-in Plugin



Secured Data with N+M Failover & Backup Storage



Cost-Effective & Streamlined Deployment



Central Management of Distributed Security



NVR Series



PoE NVR Series




4K Mini NVR 1000 Series
4/8-CH
10TB Storage
Gold Silver Black



4K Pro NVR 5000 Series
8/16-CH
2*10TB Storage



4K Mini PoE NVR 1000 Series
4 PoE Plug & Play
4/8-CH
10TB Storage
Gold Silver Black



4K PoE NVR 5000 Series
8/16 PoE Plug & Play
8/16-CH
2*10TB Storage



4K Pro NVR 7000 Series
16/32-CH NVR
4*10TB Storage



4K Pro NVR 8000 Series
32/64-CH
8*10TB Storage



4K PoE NVR 7000 Series
16/24 PoE Plug & Play
16/32-CH
4*10TB

Key Features

- Up to 8*10TB Storage
- Up to 64-CH Video Input
- Up to 4K Decoding Performance
- Multi-screen Output
- Dual Lan Giga Network Ports
- ANR/Software RAID/N+1 Hot Spare
- Storage Quota
- Dual Stream Recording
- Transcoding
- POS Integration
- Online Upgrade
- Smart People Counting Analytics
- Intelligent Face Detection Management
- Versatile Interfaces

Key Features

- Up to 24*PoE Plug and Play
- Up to 4*10TB Storage
- Up to 48-CH Video Input
- Up to 4K Decoding Performance
- Multi-screen Output
- ANR/Software RAID/N+1 Hot Spare
- Storage Quota
- Dual Stream Recording
- Transcoding
- POS Integration
- Online Upgrade
- Smart People Counting Analytics
- Intelligent Face Detection Management
- Versatile Interfaces



Enterprise NVR Series



PoE Switch



Enterprise NVR 1U Series
8/16CH
Up to 2*20TB



Enterprise NVR 2U Series
16/32CH
Up to 6*20TB



Enterprise NVR 3U Series
64/128CH
Up to 16*20TB

Key Features

- 8/16/32/64/128-CH Models Available
- Pre-loaded with Milesight VMS Enterprise
- Windows System
- Central Management for Single Site & Multiple Sites
- High Scalability
- AI & IoT Capabilities
- Ready-to-go Design for Easy Installation
- N+M Failover

4-Port PoE Switch



4*10/100Mbps PoE Ports
+2*100Mbps Uplink Ports

8-Port PoE Switch



8*100Mbps PoE Ports
+2*100Mbps Uplink Ports
12*1000Mbps Uplink Ports

16-Port PoE Switch



16*10/100Mbps PoE Ports
+2*1000Mbps Uplink Ports

16-Port SFP PoE Switch



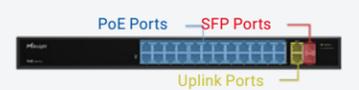
16*100Mbps PoE Ports
+2*1000Mbps Uplink Ports
+2*1000Mbps SFP Ports

24-Port PoE Switch



24*10/100Mbps PoE Ports
+2*1000Mbps Uplink Ports

24-Port SFP PoE Switch



24*100Mbps PoE Ports
+2*1000Mbps Uplink Ports
+2*1000Mbps SFP Ports

Key Features

- IEEE 802.3af/at Protocol
- 4KV Surge Protection
- Gigabit Uplink Ports
- SFP Uplink Ports
- 250m Extend Mode
- Up to 400W Power Budget

Milesight Backend Software Solution

APP



M-Sight Pro APP

- Simultaneously managing Milesight network cameras and NVRs
- Support Milesight cloud management
- Smooth and high quality live streaming
- Support image capture/video recording functions
- File management
- Efficient split playback
- Transcoding to get better playback performance
- Support scanning QR code to get a remote view via P2P
- Support iOS and Android handheld device
- Support alarm video push notification

TOOLS

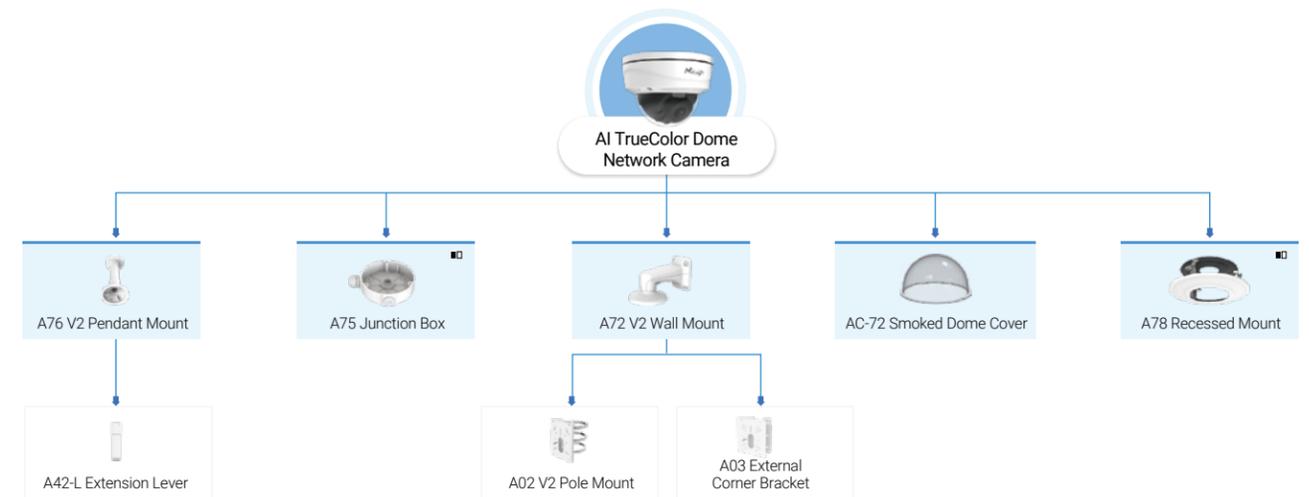
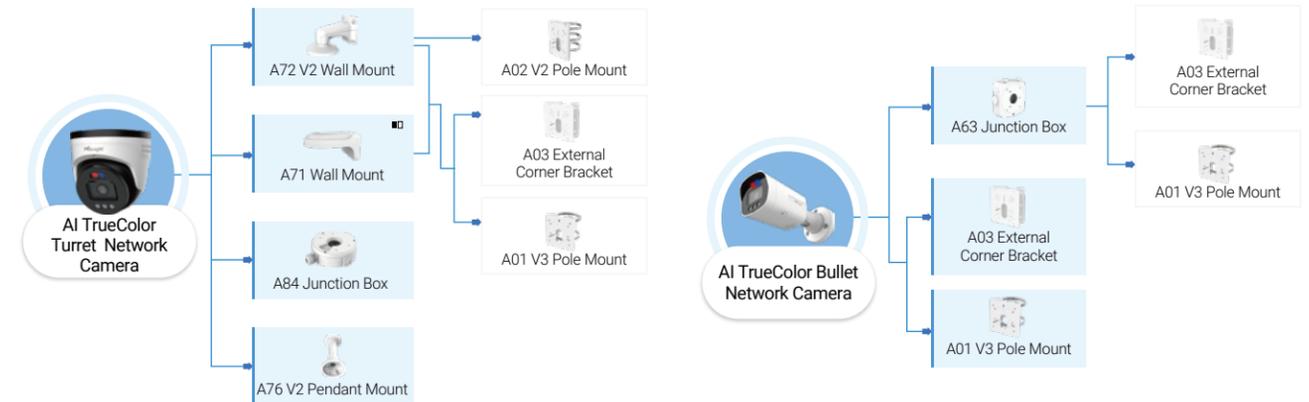


Milesight Smart Tools

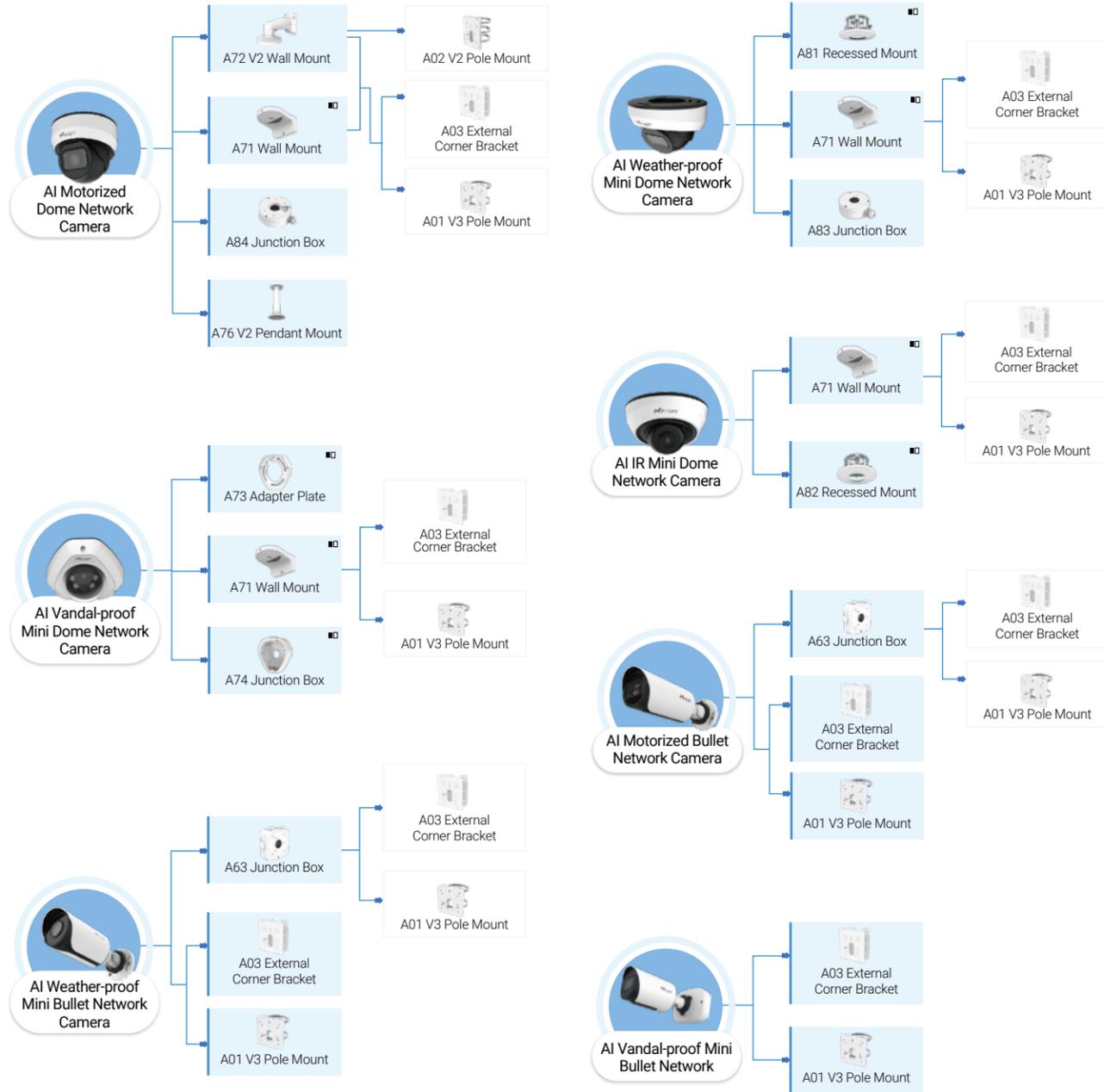
- Unified management for network cameras and NVRs
- Batch settings for Milesight devices
- Online batch upgrade for Milesight devices
- Fast, comprehensive, and powerful calculation
- Efficiently calculation report PDF export

Accessories Map

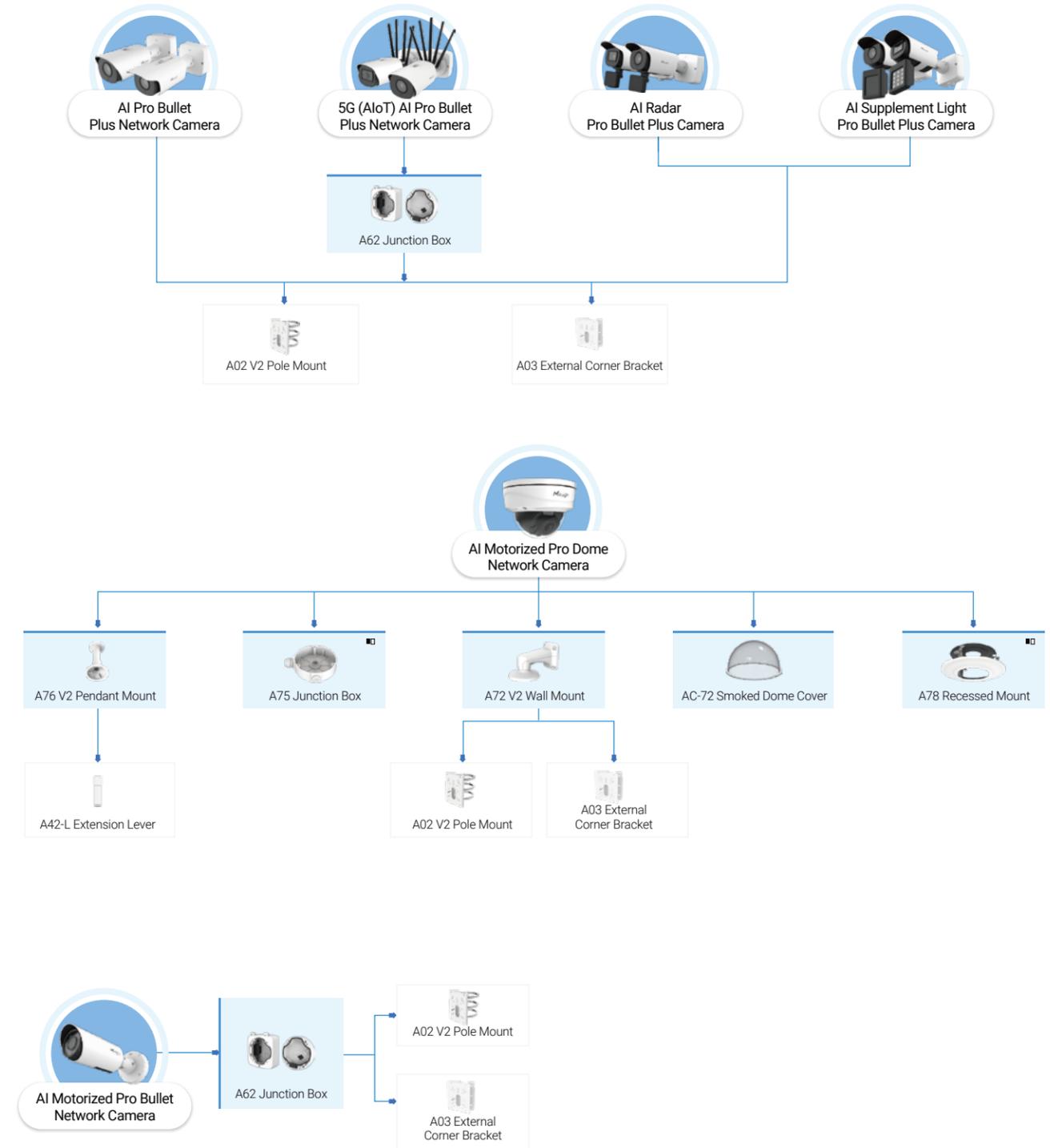
Q SERIES



MINI SERIES

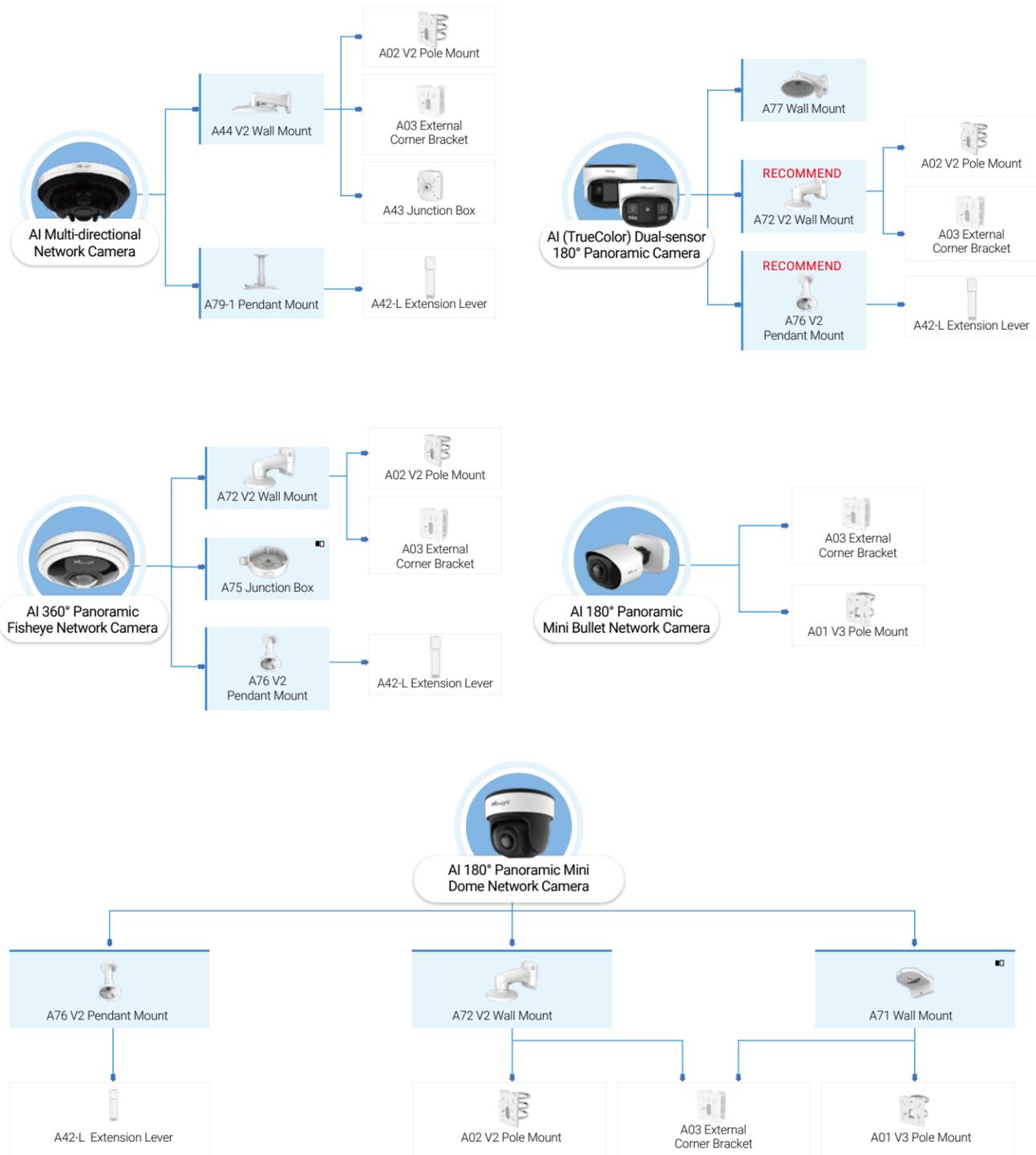


PRO SERIES

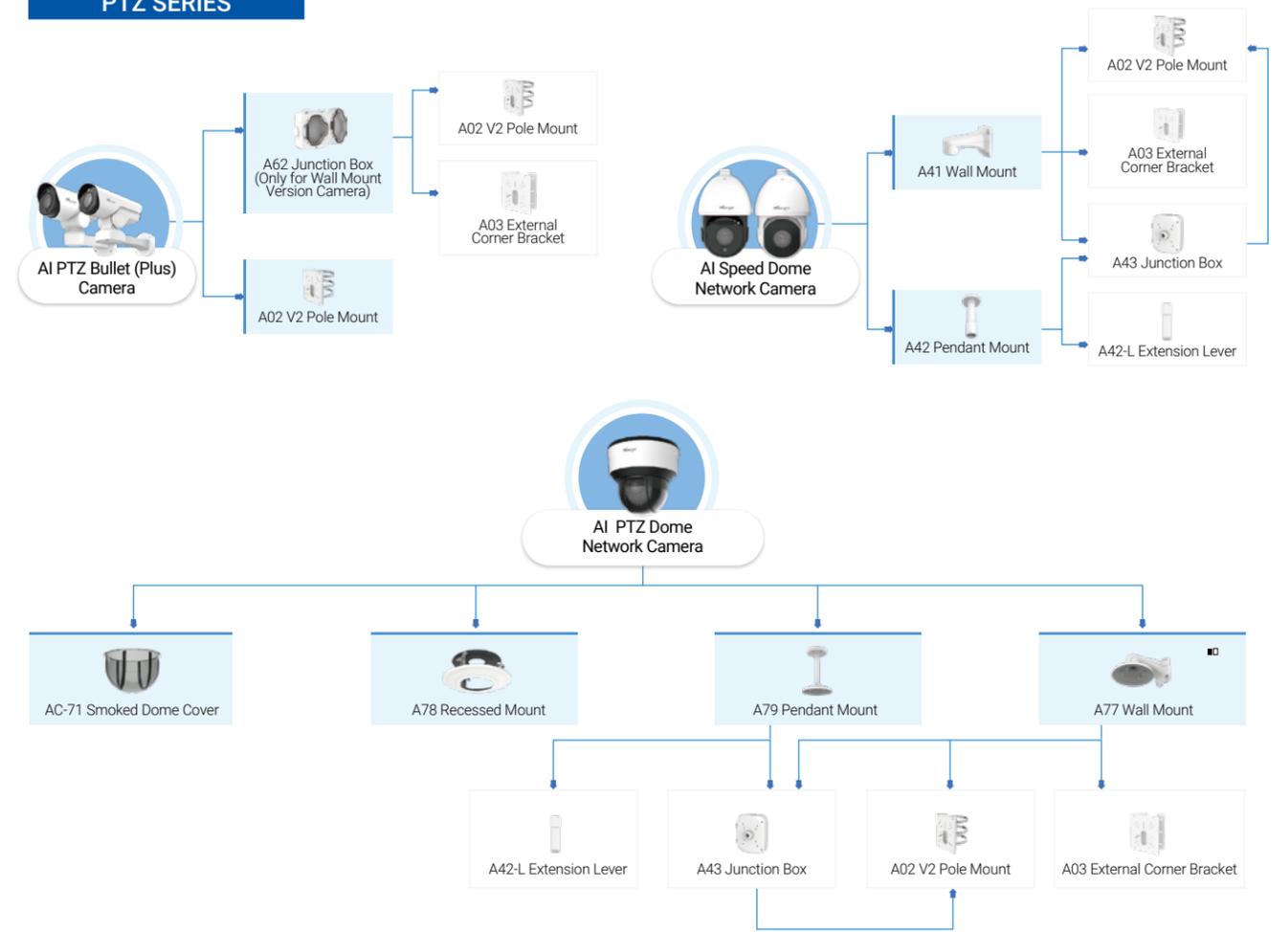




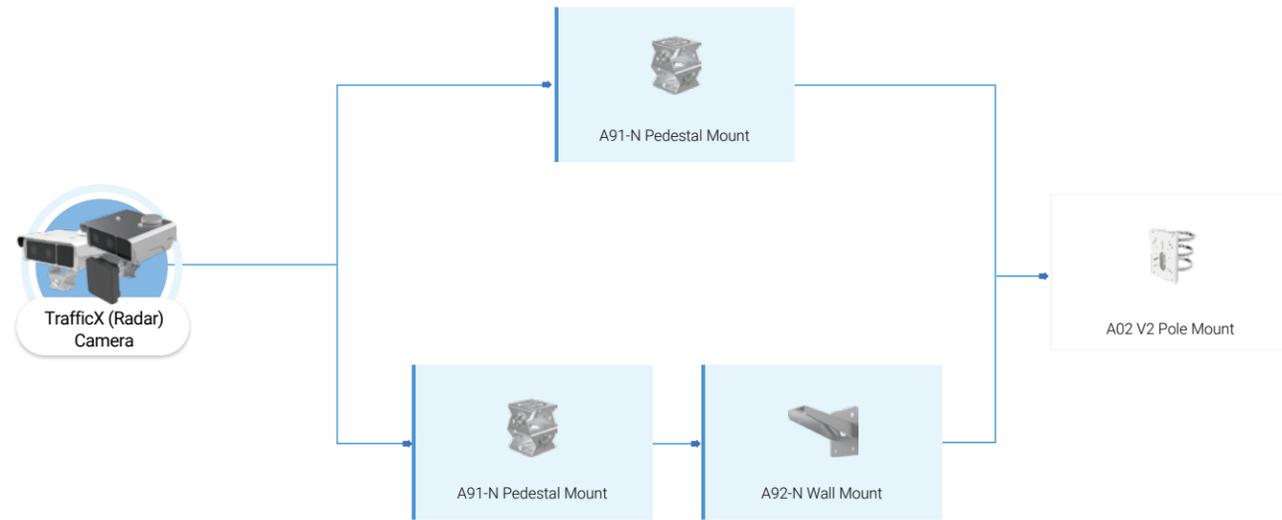
PANORAMIC SERIES



PTZ SERIES



INTELLIGENT TRAFFIC SERIES



SOLAR-POWERED SERIES

