BETTER INSIDE, MORE IN SIGHT

V9.0







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PRODUCT BROCHURE

AI NETWORK VIDEO SURVEILLANCE

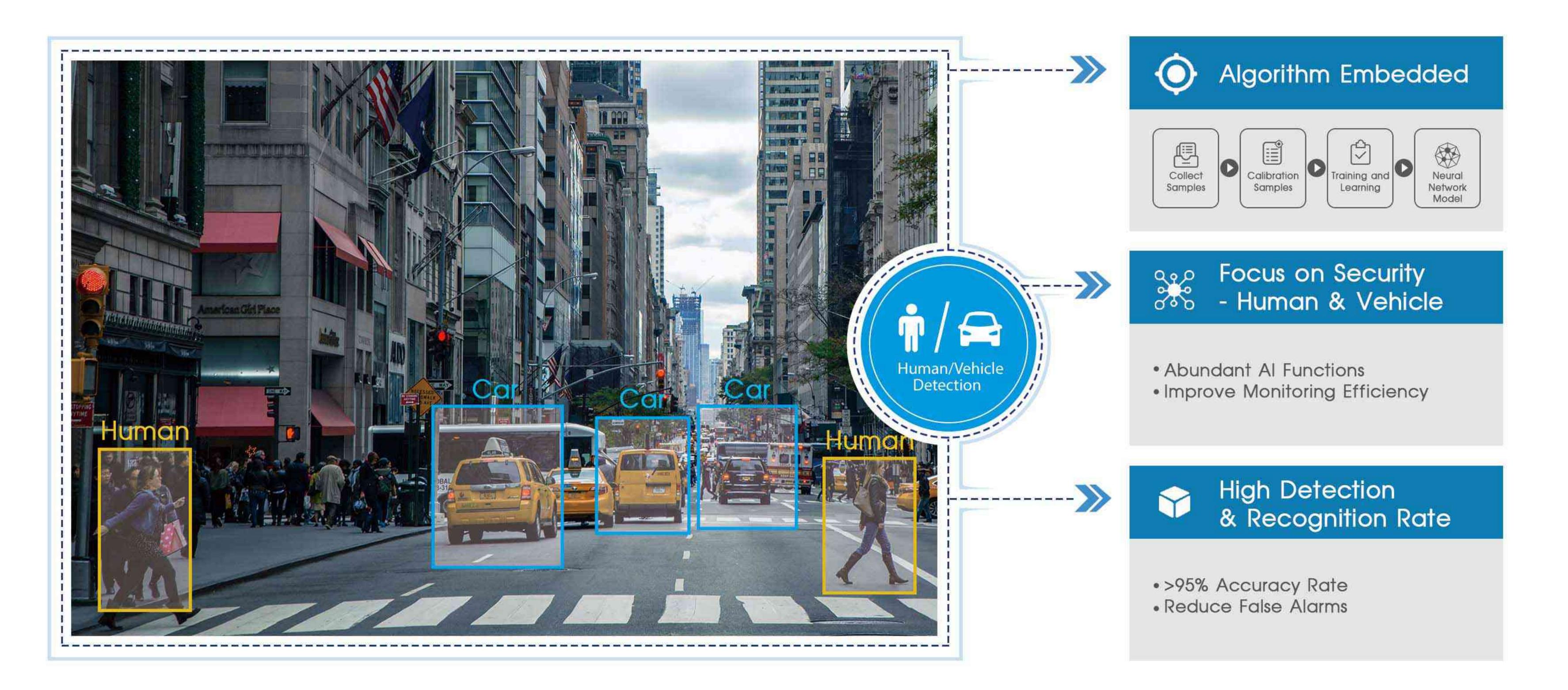


Intelligence

Behavior Analysis	PTZ/Fisheye Auto Tracking, Loitering, Object Left, Object Removed
Passing	Region Entrance, Region Exiting, Line Crossing
Detection	Motion Detection, Advanced Motion Detection, Tamper Detection, Face Detection
Statistics for Market Intelligence	Heat Map, People Counting

Al Empowers Security

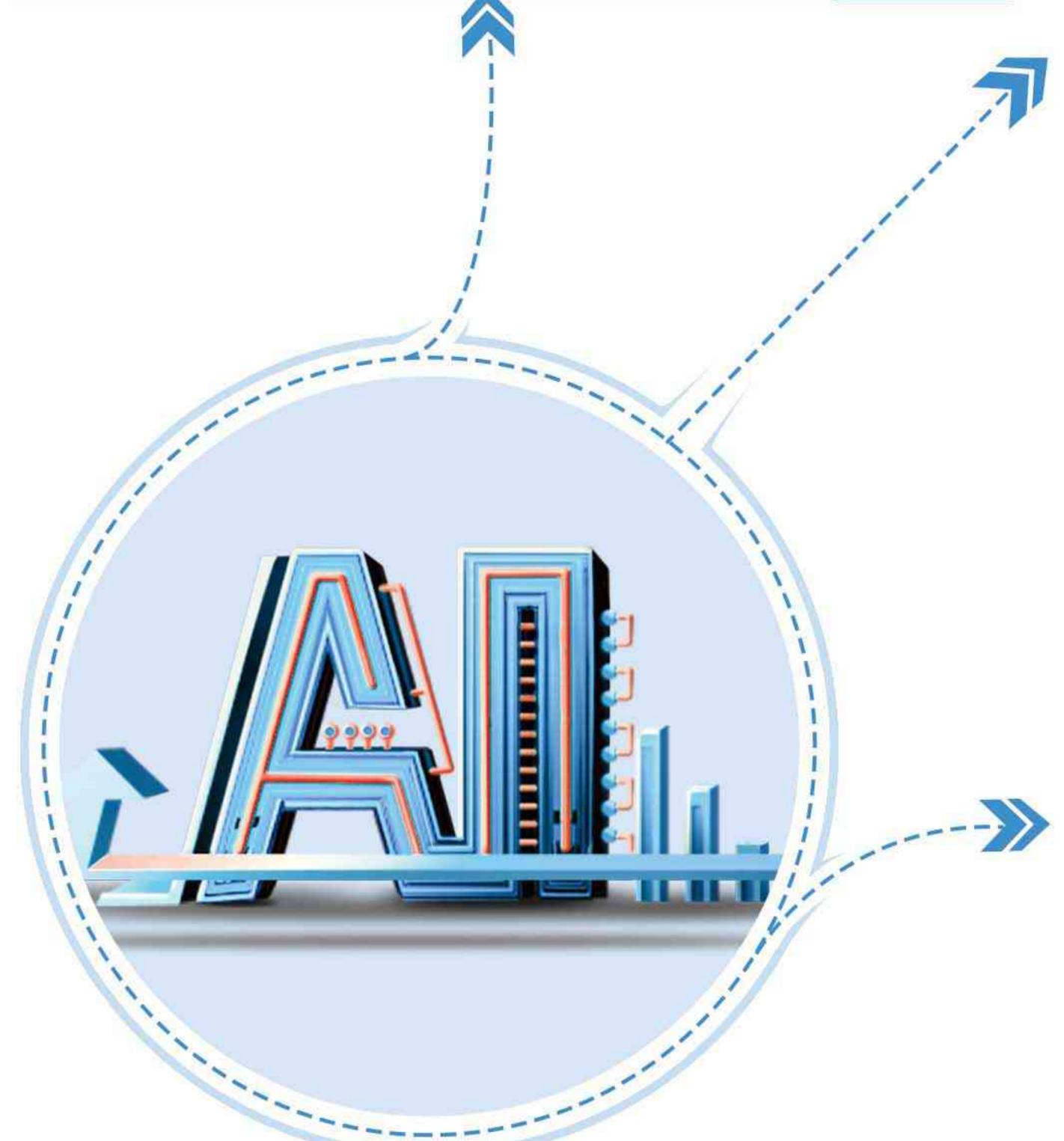
Powered by AI chip, Milesight AI Network Camera is capable of recognizing vast attributes of human, vehicle, and object pattern recognition models. As human and vehicle related events are of the utmost importance in monitoring, the filtering is supported to better optimize the efficiency.



Al Video Analytics

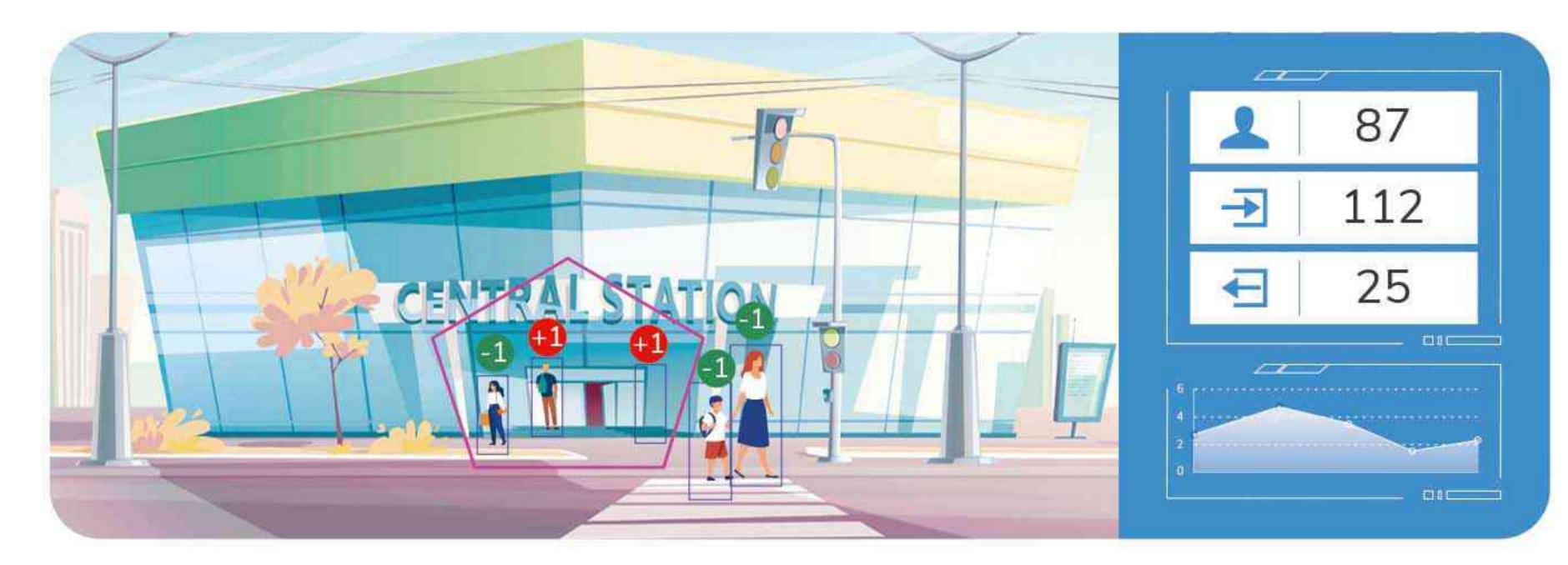
Milesight Al Camera Series can intelligently filter objects to focus on human and vehicle detection in multiple events such as Region Entrance, Region Exiting, Loitering, Advanced Motion Detection, etc.





Regional People Counting

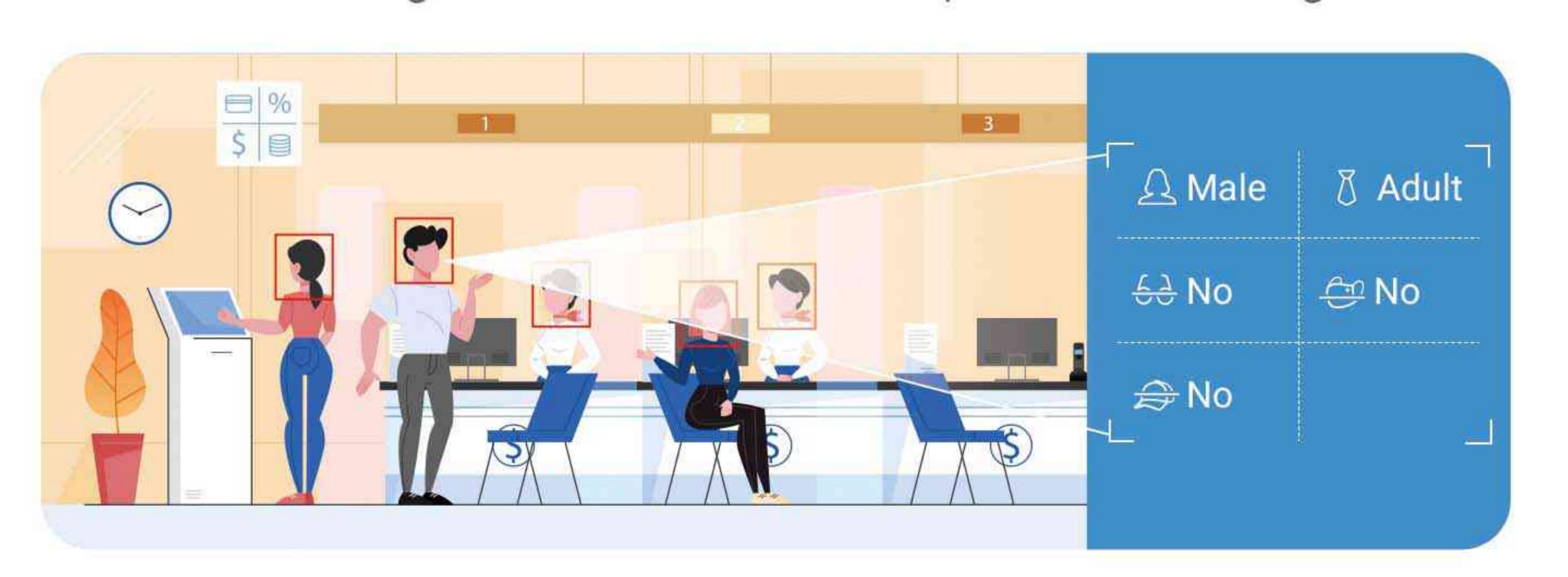
High accuracy and real-time regional people counting based on Al algorithm, with statistic reports for further analysis, helps to make fast decisions on security management and increase the operational efficiency of the business.



Face Detection

Face Detection function detects human faces in the monitoring scene and captures the snapshots. Further, the Face Attributes Recognition and Face Privacy Mode are supported after detecting the faces, which can not only cater to the scenarios that need fast and accurate face detection, but also fit well for the applications that require high-level privacy protection.

- Face Attributes Recognition
 Support a variety of face attributes recognition, such as glasses, masks, age, gender, etc.
- Face Privacy Mode
 Mosaic the recognized faces automatically in the monitoring scene.



Advanced Heat Map

- Improve Store Layout
- Maximize Exposure of Products
- Reach Your Target Customer Precisely
- Drive Better Business Insights with Reports

PTZ/Fisheye Auto Tracking

- Real-time Target Tracking
- Zoom in for Details
- All-round Monitoring Without Blind Spots



Distinctiveness

Smart License Plate Recognition

3D Radar Technology

Milesight leverages 3D radar technology that uses radio waves to determine the velocity, range, or angle of objects to realize direction detection, speed detection and traffic flow detection.









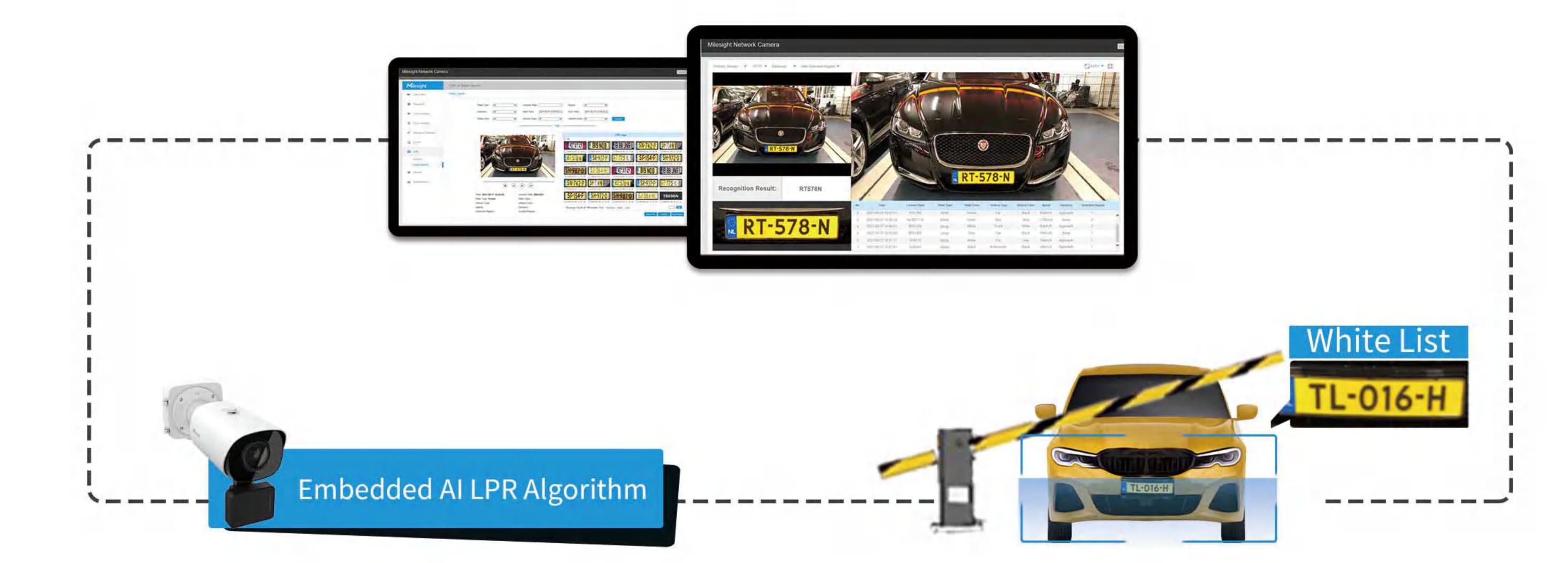






Al-powered LPR Algorithm

Milesight Al-powered LPR Algorithm can not only recognize vehicle plates in real-time with high accuracy but also identify more vehicle features, like vehicle type, color, etc., which can be further searched by LPR Smart Search function, generating powerful security and traffic insights.



Black/White List Management

Milesight LPR cameras can automatically identify license plates information on whitelists or blacklists and take real-time actions, which is perfect for entry and exit systems.

Broad Regional and Country Support

Milesight LPR cameras are supported to capture and recognize vehicle plates from multiple countries and regions including Mid-East, Africa, Asia-Pacific, America, Europe, Russian-speaking countries.

Integrated ANPR Solution

Milesight LPR cameras are fully compatible with Milesight back-end management system and support third-party integration with CGI/APIs, increasing the operational efficiency.

5G & loT for Ultimate Intelligent Surveillance

In addition to Al deep learning, Milesight further combines the cutting-edge 5G and IoT technology in the 5G AloT Camera to make it a powerful security hybrid for remote video surveillance systems, making high definition video feeds available with near-elimination of latency. Aggregating video insights, data from IoT devices enable situational awareness and analytics-driven insights.

Cutting-edge 5G Wireless Transmission

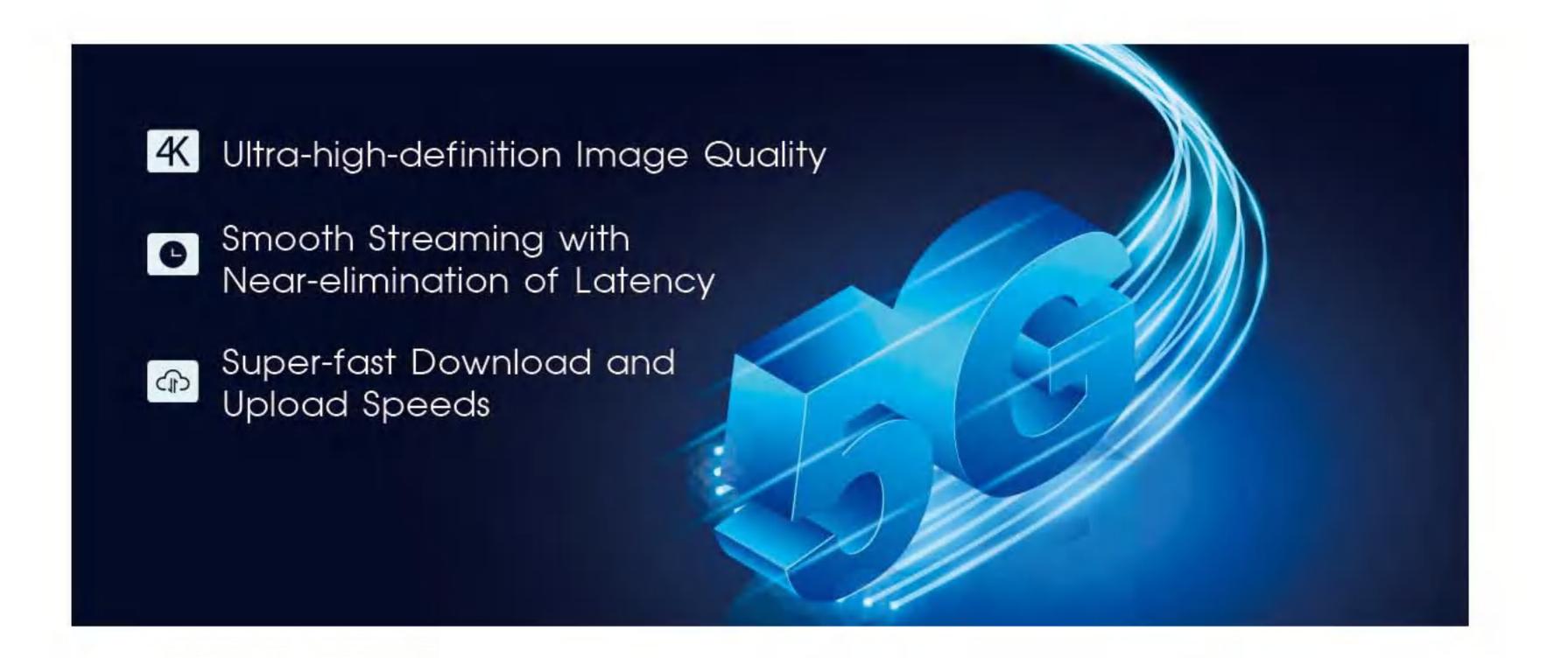
5G Higher Mobility

The built-in 5G module makes Milesight 5G AloT Camera a truly all-in-one system with higher mobility, supporting 5G network connection and wireless transmission while eliminating extra implement and management compared with add-on routers, and easing the complexity of cable and fiber connections.



5G Higher Bandwidth & Lower Latency

5G Higher Bandwidth facilitates the video surveillance with ultra-high-definition image quality up to 4K even 8K, meantime, realizes super-fast download and upload speeds. While the Lower Latency boosts camera responsiveness and real-time monitoring with almost no lagging time.



5G Higher Scalability

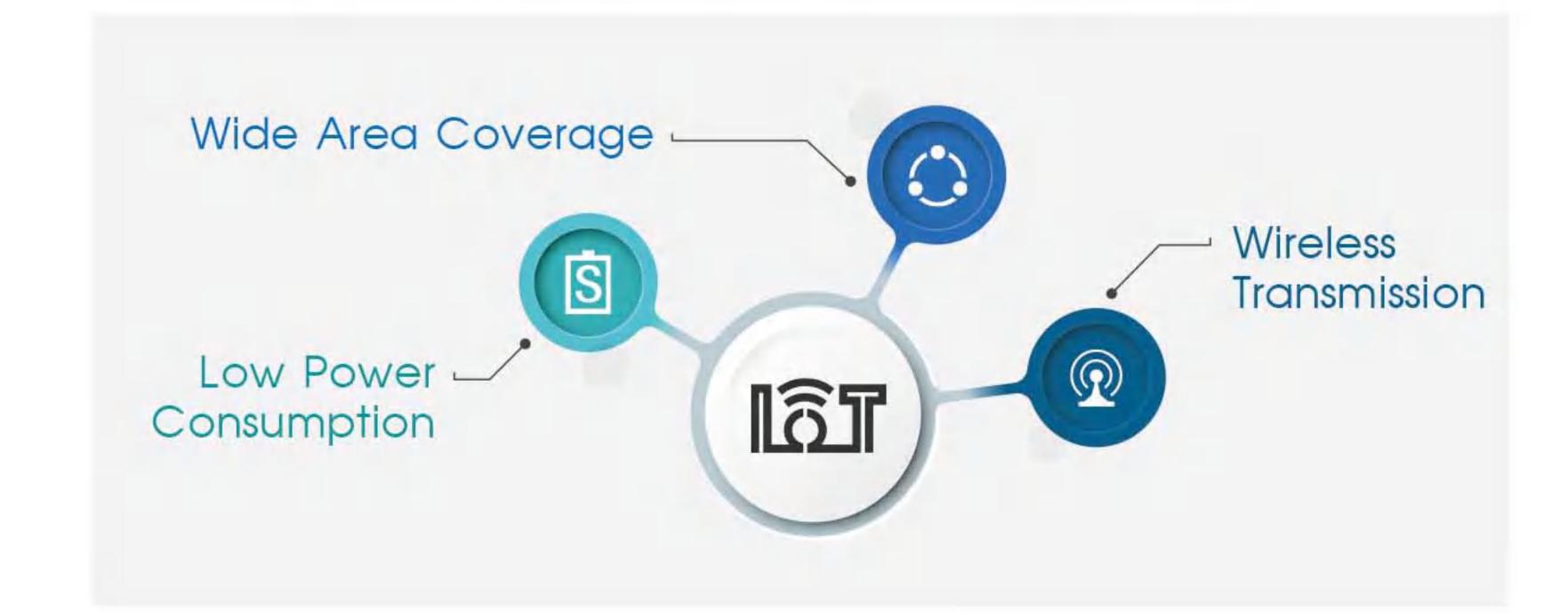
Enjoying a high degree of flexibility and scalability, 5G can not only achieve the deployment of a massive number of connected devices but also mission-critical applications. Moreover, 5G will further open up the use cases for edge computing, benefiting video analytics running on the edge to deliver advanced video analytics solutions.



Emerging loT Transmission

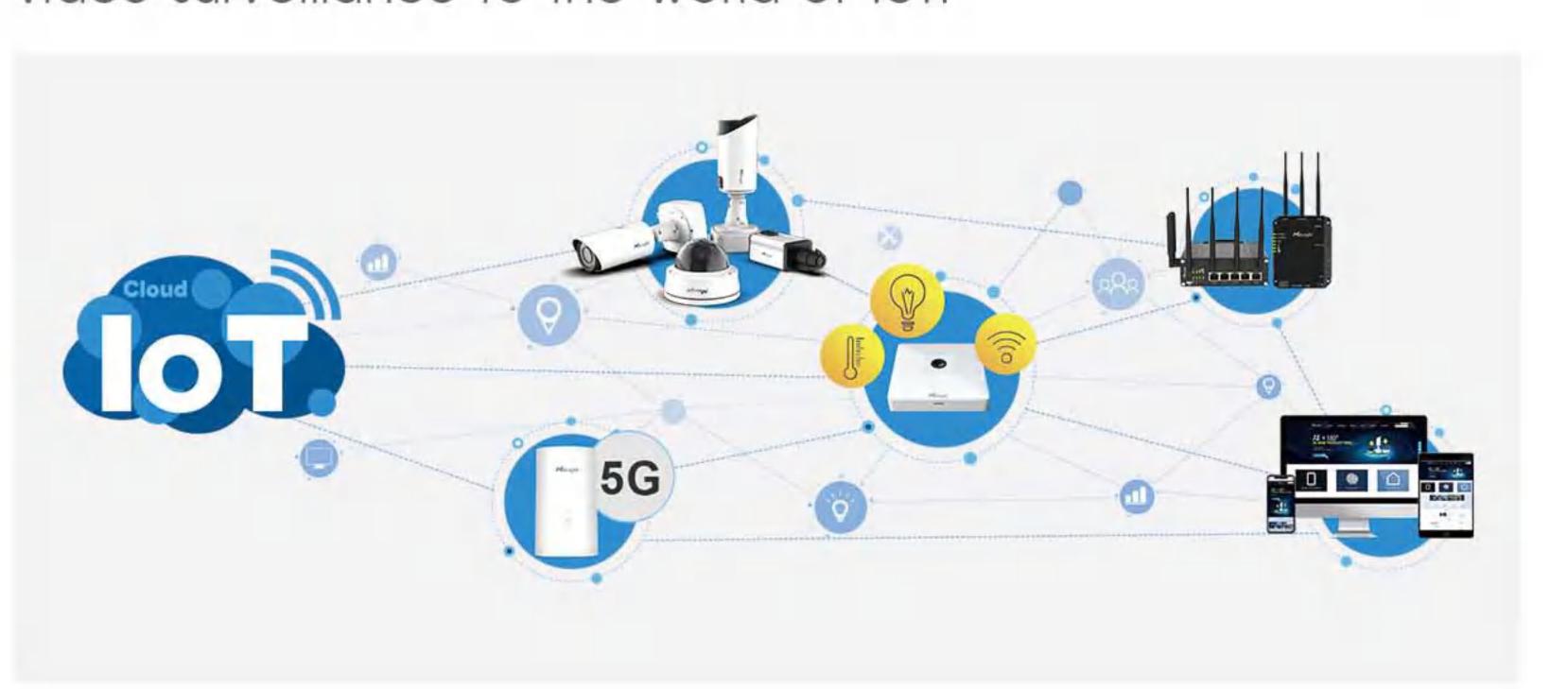
Embedded IoT Technology

Milesight embedded LPWAN technology, one of the fastest-growing IoT communication strategies, empowers wireless and relatively long-distance connection with lower power consumption. And now, the industry-leading loT technology via LoRaWAN® is applied in Milesight 5G AloT Camera.



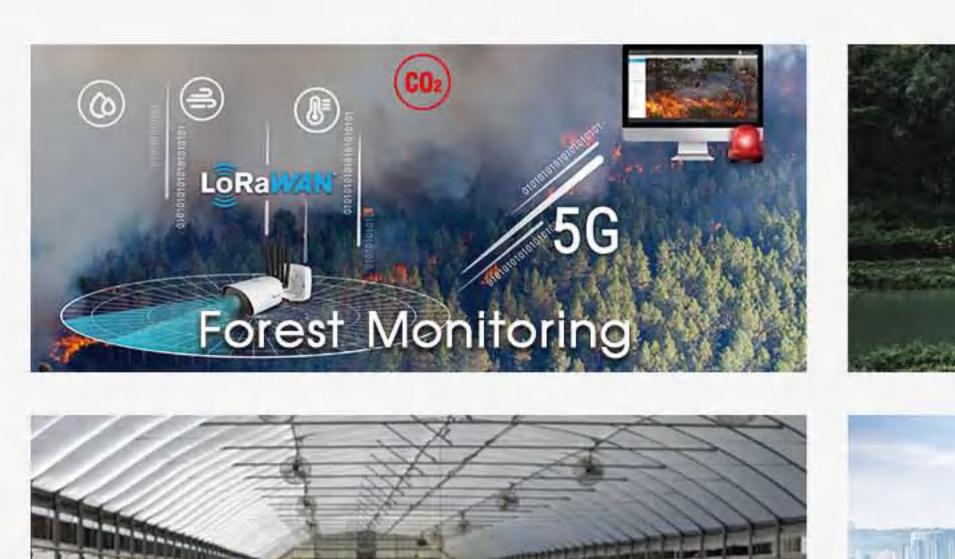
Sufficient Capacity

The sufficient capacity of IoT technology enables Milesight 5G AloT Camera to connect potentially millions of devices, covering the integration with billions of IoT devices and realizing the mission-critical applications, making a leap from video surveillance to the world of IoT.



Application Scenarios

Milesight leverages cutting-edge technologies, including Sensory System, IoT technology, 5G, Al deep learning, to realize an intelligent and highly integrated 5G AloT solution, which is beyond just data collection also draws actionable insights, catering for the scenarios which are not suitable for laying wired network and have high demanding for device stability.









MILESIGHT NETWORK CAMERA KEY FEATURES

PTZ to Move Your World

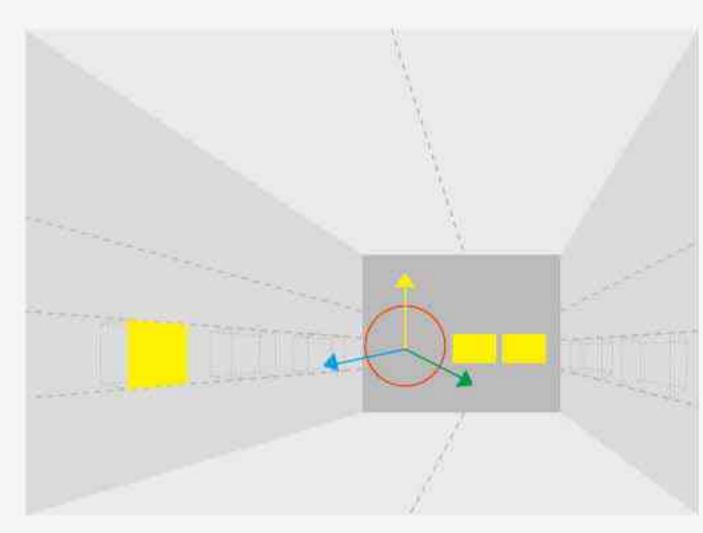
Pan, Tilt and Zoom Tasks

- Up to 360° Endless Pan & 95° Tilt
- Pan Speed up to 450°/s & Tilt Speed up to 360°/s
- Flexible Zoom Options from 5X to 42X
- o Ideal for Wide-area and Long-distance Surveillance









PTZ Privacy Mask

PTZ Privacy Mask features a 3D coordinate system to protect people's privacy. It can keep the specified area masked through manual operations from monitoring no matter how cameras pan/tilt/zoom.

3D Positioning & Keyboard Control

3D Positioning and Keyboard Control allow users to easily adjust the angle of cameras' view and zoom ratio by just using a mouse or a keyboard to get more details from region of interest.





Panoramic View for All-round Surveillance



Stunning Dewarping Ability

The embedded dewarping algorithm can smoothly and fast alter original spherical images into plane images to offer users a complete overview of a wide area without distortion.

On-board/Client-side Dewarping

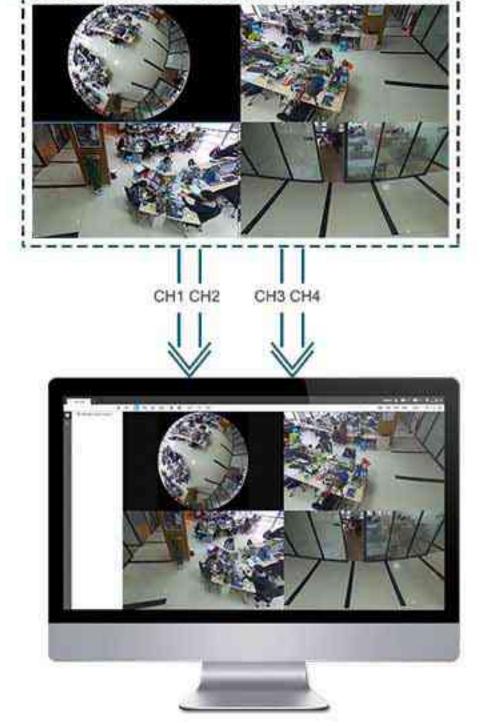
Milesight fisheye cameras support two ways of dewarping, bringing users great flexibility during operation.

- On-board Dewarping:
 Easy integration with third-party VMS
- Client-side Dewarping:
 Flexible viewing modes in Live View and Playback



9 Display Modes: ○ ↔ # 믬 음 금 喆 歸 믦

Primary Stream Secondary Stream Milesight



Two Compatible Modes

- Bundle-stream Mode For Better Compatibility
 Bundle all channels into one stream and send it to NVR or VMS.
- Multi-Channel Mode For Easy Operation
 Send all the original channels to NVR or VMS, allowing separate configurations of each channel.

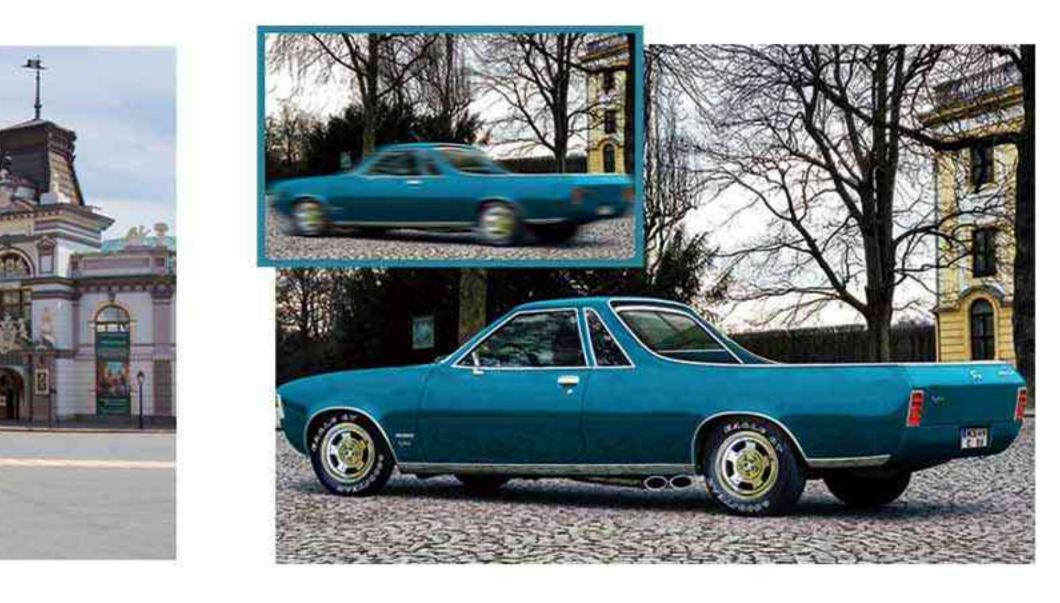
lmage

Outstanding Viewing Experience









4K/12MP High Resolution

180°/360° Wide Angle Viewing

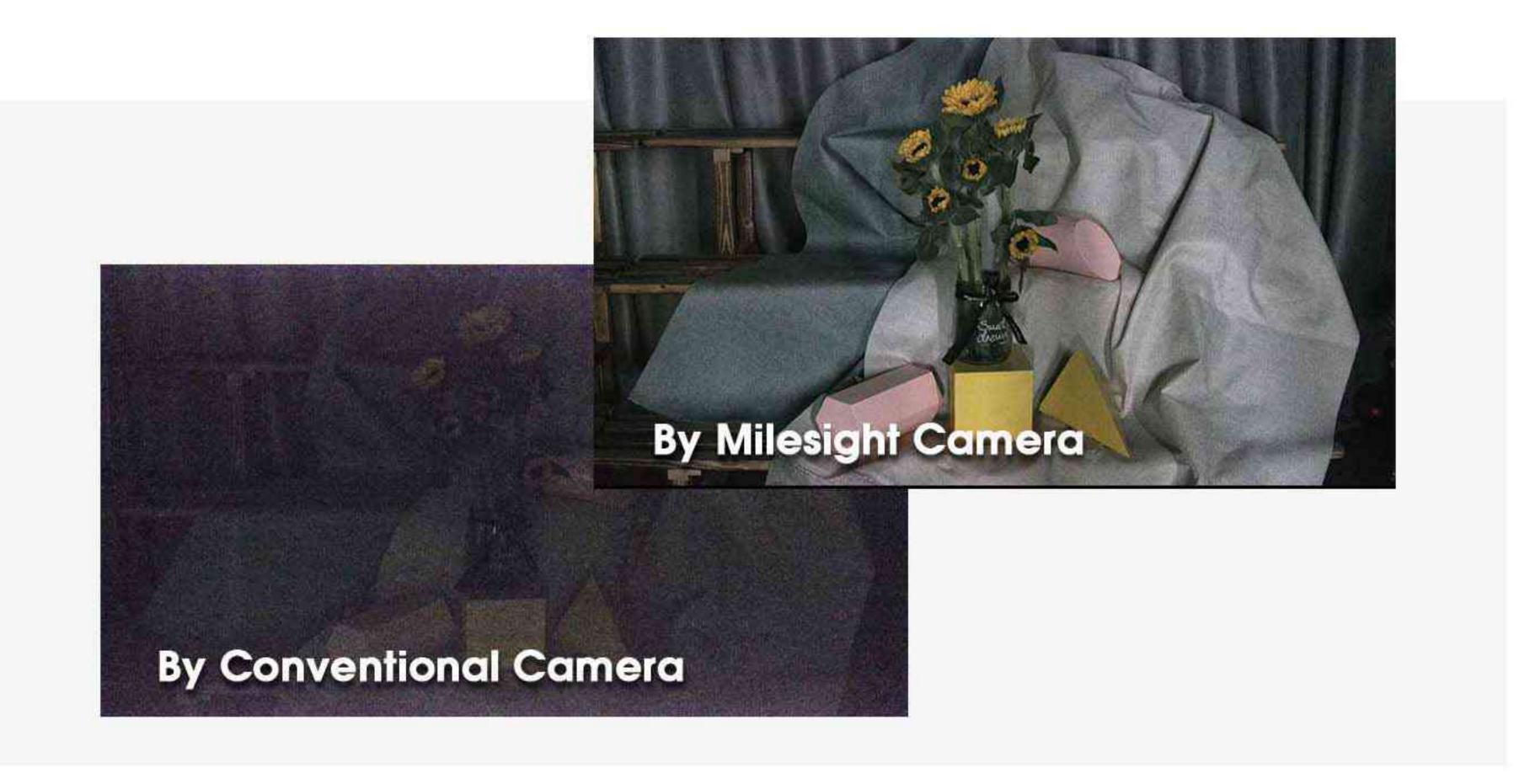
3X to 42X Optical Zoom

60fps/90fps/100fps High Frame Rate

Clear Vision at Night

0.001Lux Starlight

Equipped with Sony Starlight sensor, Milesight cameras can deliver full-color images even in extremely low-light situations without the need of any supplementary light sources.





Smart IR II Technology

Smart IR II Technology can adjust the IR illumination intensity automatically as the camera zooms in and out, providing a uniform IR coverage and clear images even in complete darkness.

MILESIGHT AI NETWORK CAMERA KEY FEATURES 06

Excellent Details Under Backlighting

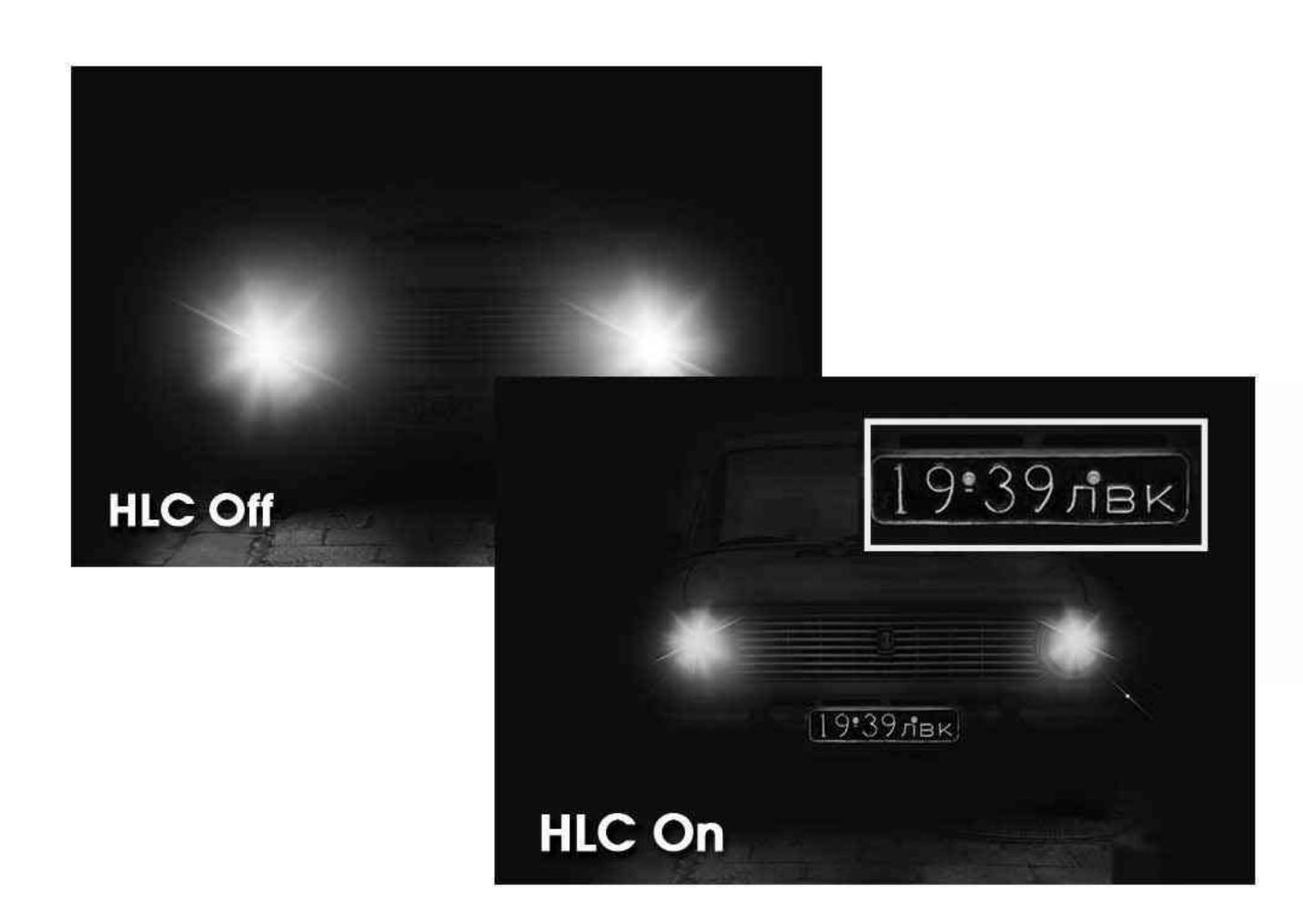
3 in 1 Super WDR Pro-140dB

Milesight Super WDR Pro technology reaching up to 140dB combines 3 frames with multiple exposures to get the optimal images in high contrast lighting situations.



HLC (Highlight Compensation)

HLC compensates for overexposure from strong source of light and prevents blinding of cameras especially at night time from headlights, enhancing license plate readability.



BLC (Backlight Compensation)

BLC optimizes underexposure in the foreground and background of the video by correcting different exposure regions of the scene with varying levels of light.

Advanced Technologies



High-quality Deblur

Speed up the shutter speed under certain gain range to remove blurring artifacts caused by high-speed motion.







P-Iris Control

Adjust automatically and precisely the iris opening in response to changes in light levels, offering optimal image quality with good depth of field.







Comprehensive Defogging

Provide clear images in hazy and foggy weather with the built-in fan and heater as well as embedded defogging algorithm.







Corridor Mode

Rotate images 90 degree clockwise or anti-clockwise to offer a better viewing experience in tall and narrow surveillance scenarios.





Electronic Image Stabilization

Detect cameras' vibration and automatically adjust frames to align with motion information, enabling cameras to record steady videos.



Simplicity

Online Upgrade

Users can update cameras' firmware by just one simple click in the web interface to get and explore the latest new firmware version.

User-friendly UI Design

New upgraded Milesight UI is designed with unique user-friendly logic to deliver a more orderly and more efficient user interface.



Interoperability

Extensive Compatibility with the Third-party

Offer more flexibility to users by deepening communication with different security system through CGI.



ONVIF Profile G/Q/S/T

Easy to be integrated into security systems on the basis of the ONVIF protocols by supporting ONVIF profile G/Q/S/T.



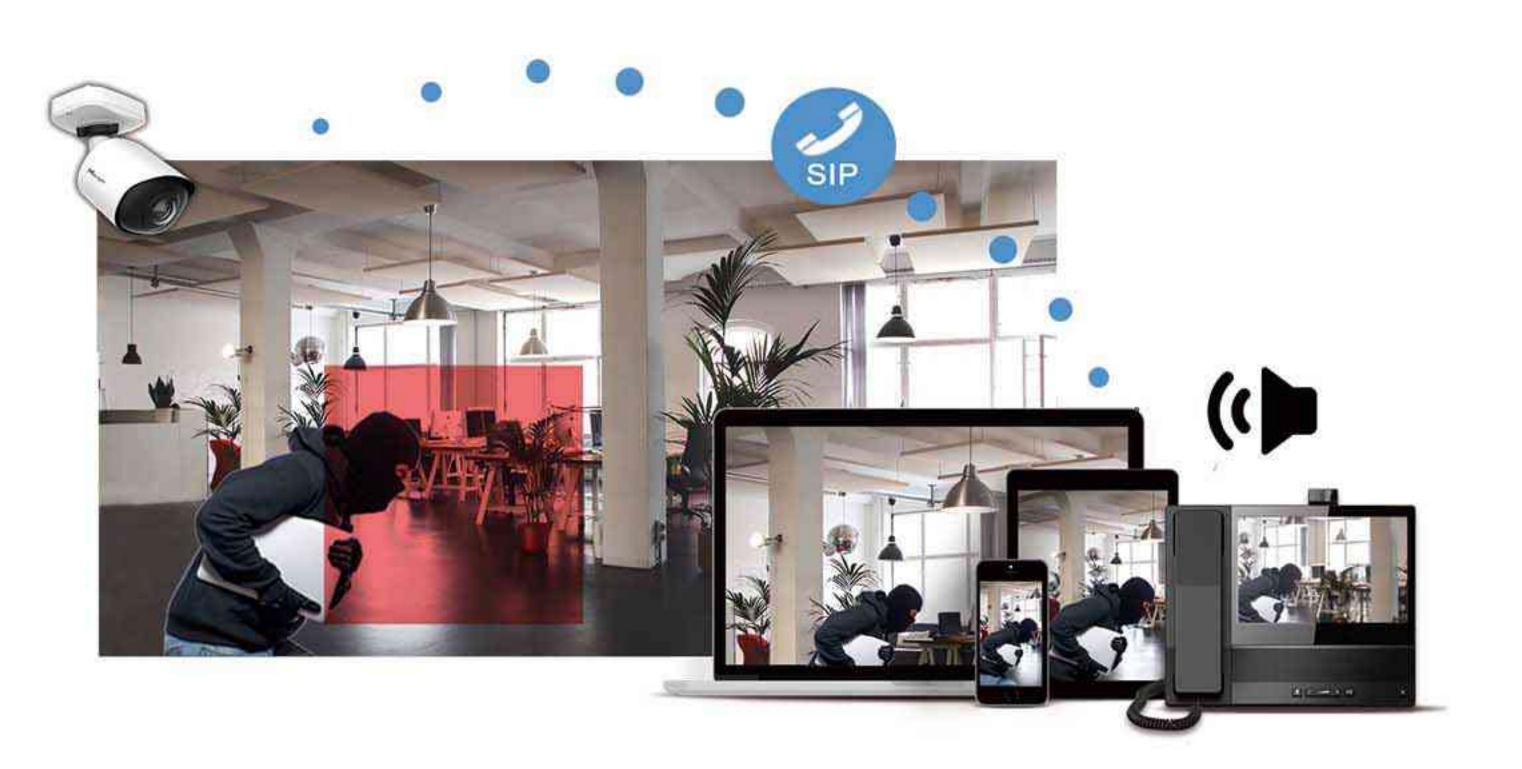
IPv6 Compatible

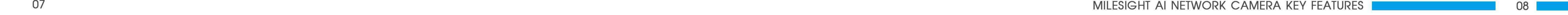
Provide a greater number of total unique Internet addresses and an improved level of security of data packets.



SIP/VoIP

Support SIP function which can integrate with various VoIP telephony systems to build a complete communication system.





Cybersecurity

HTML5 Streaming Ready

The barrier-free connection between Milesight cameras and browsers is built with HTML5 streaming to access to all configurations and functions without downloading extra plug-in.











Digital Watermark Encryption

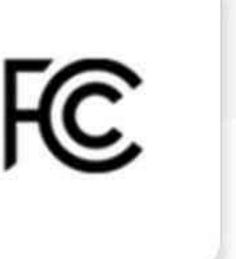
Every individual bit of the video exported from Milesight cameras is embedded with watermark information which could only be checked under Milesight back-end devices to avoid video tampering and ensure the security of data transmission.



Security Certification

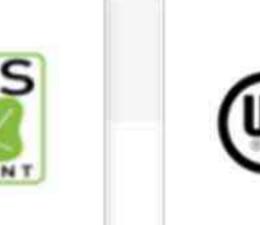
Milesight is an ISO9001 authorized company and Milesight products are certificated with CE, FCC, LVD, RoHS, etc., meeting the daunting and demanding requirements of global security industry.













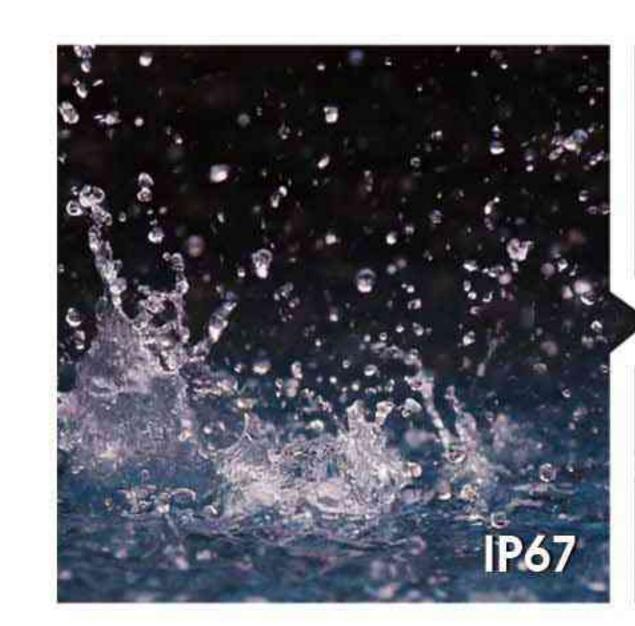




Structure

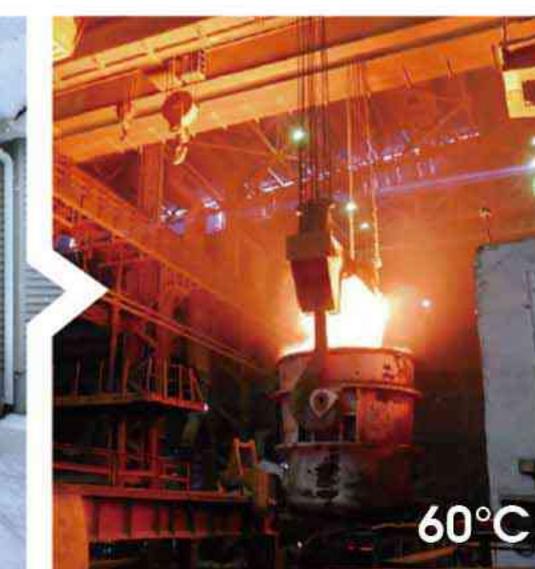
Full Protection

Milesight cameras are engineered with IP67-rated and IK10-rated housing to guarantee a stable and reliable operation. It can withstand extreme temperatures as low as -40°C and as high as 60°C, ably avoid lightning strikes and electrical surges with 6KV surge protection in harsh climates. Also complying with the EN50155 standard, Milesight Vandal-proof Mini Dome Network Camera is able to offer excellent anti-vibration performance even in applications on board trains, trams, and metros.



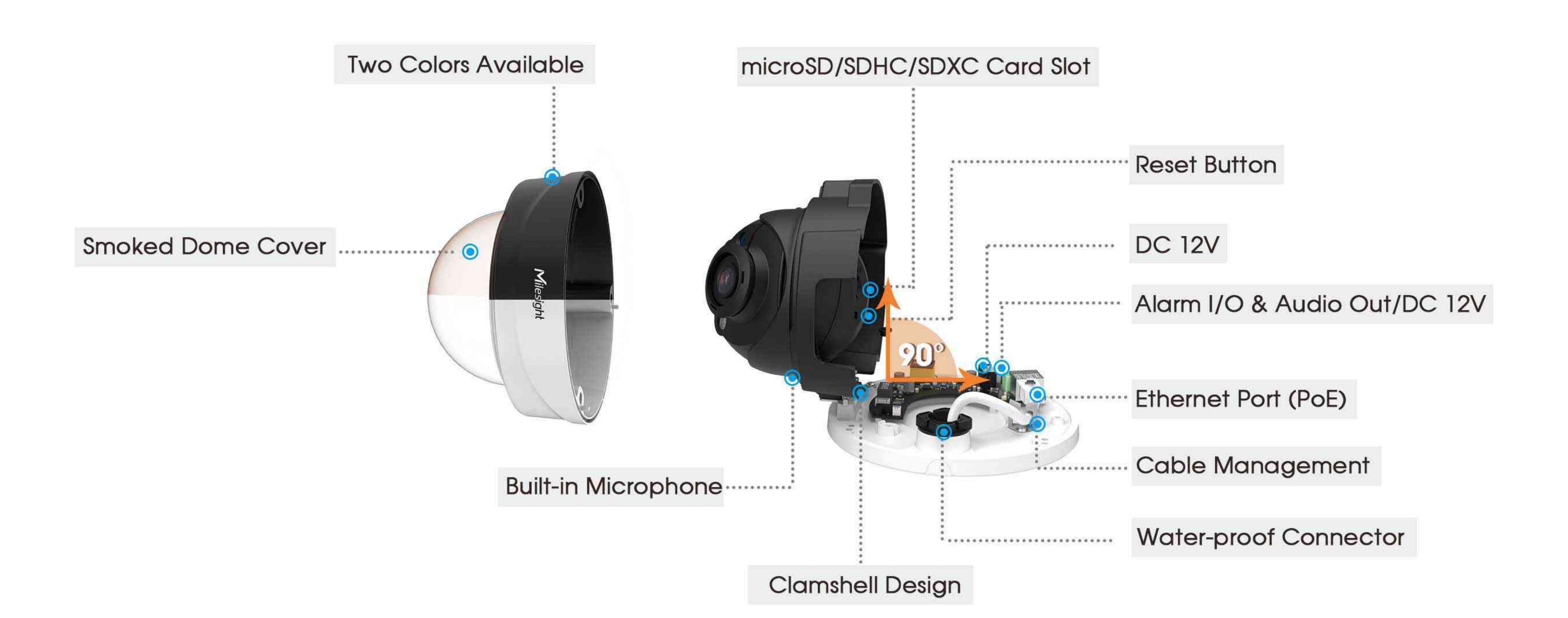






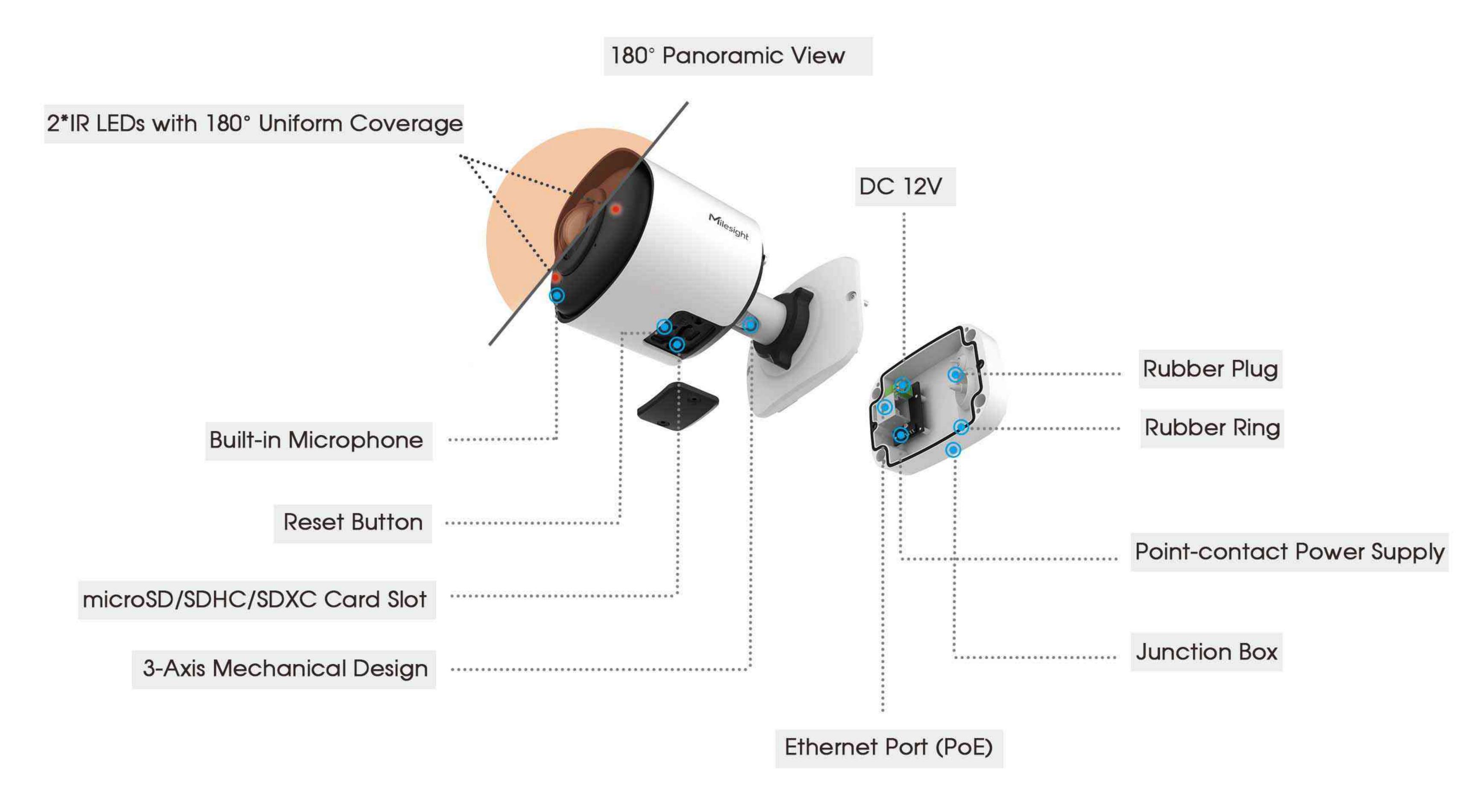






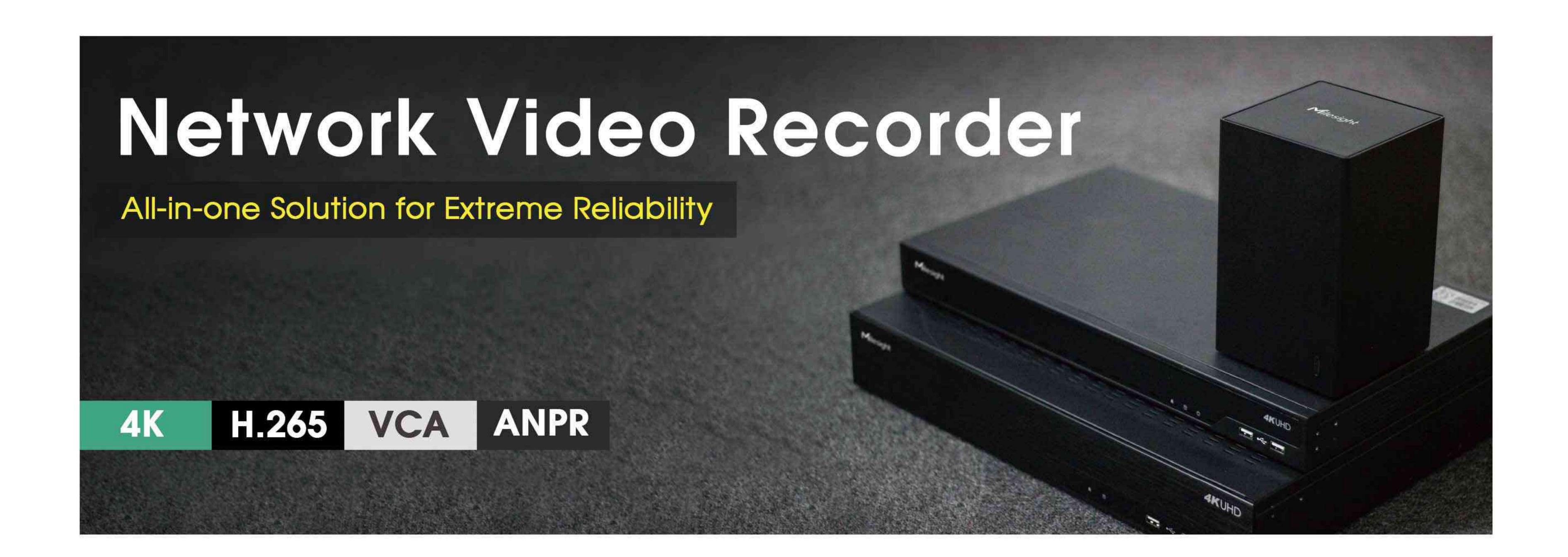
(Milesight Al Motorized Pro Dome Camera)

MILESIGHT CLASSIC DESIGN



(Milesight Al 180° Panoramic Mini Bullet Camera)

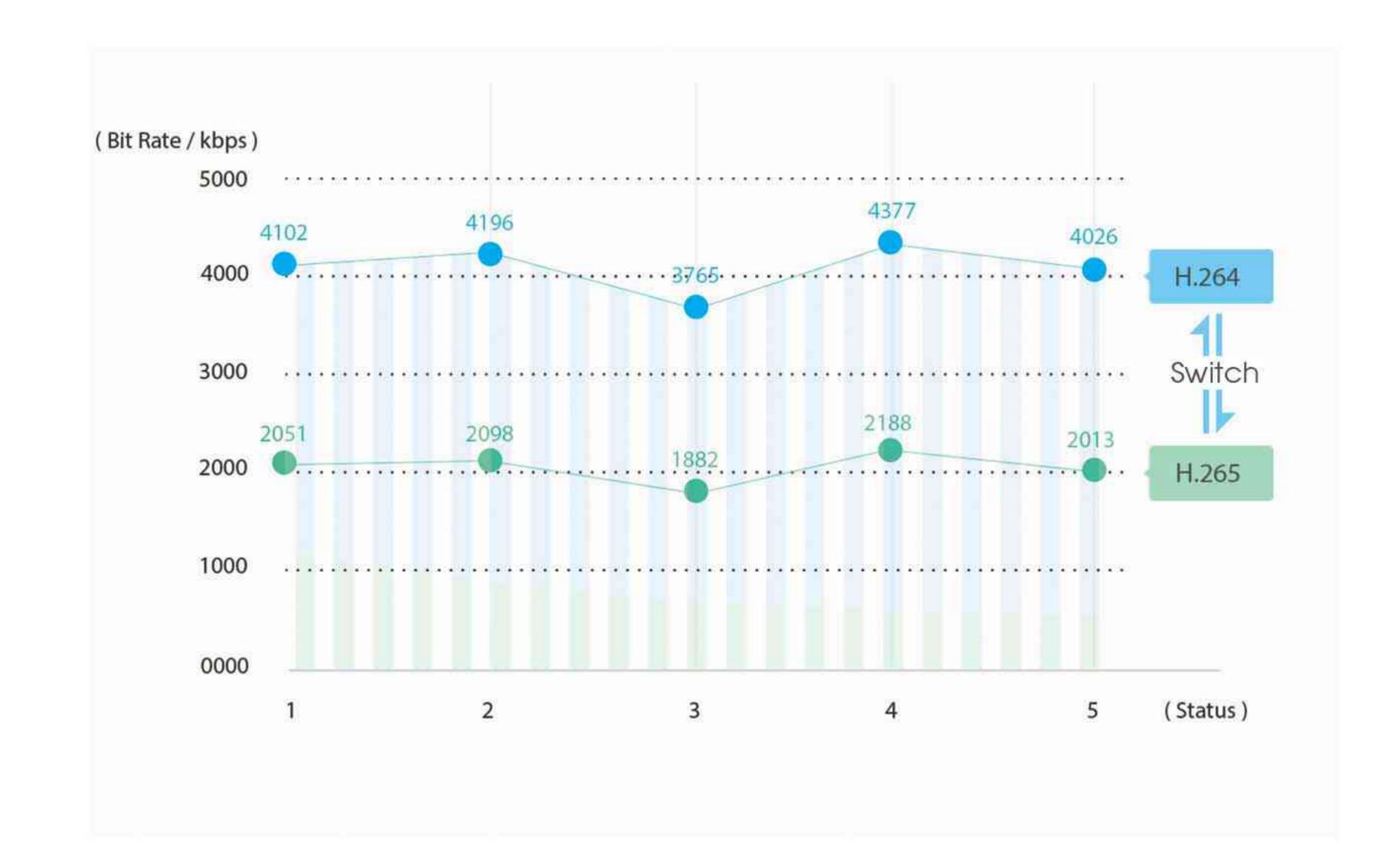
MILESIGHT AI NETWORK CAMERA KEY FEATURES



Display

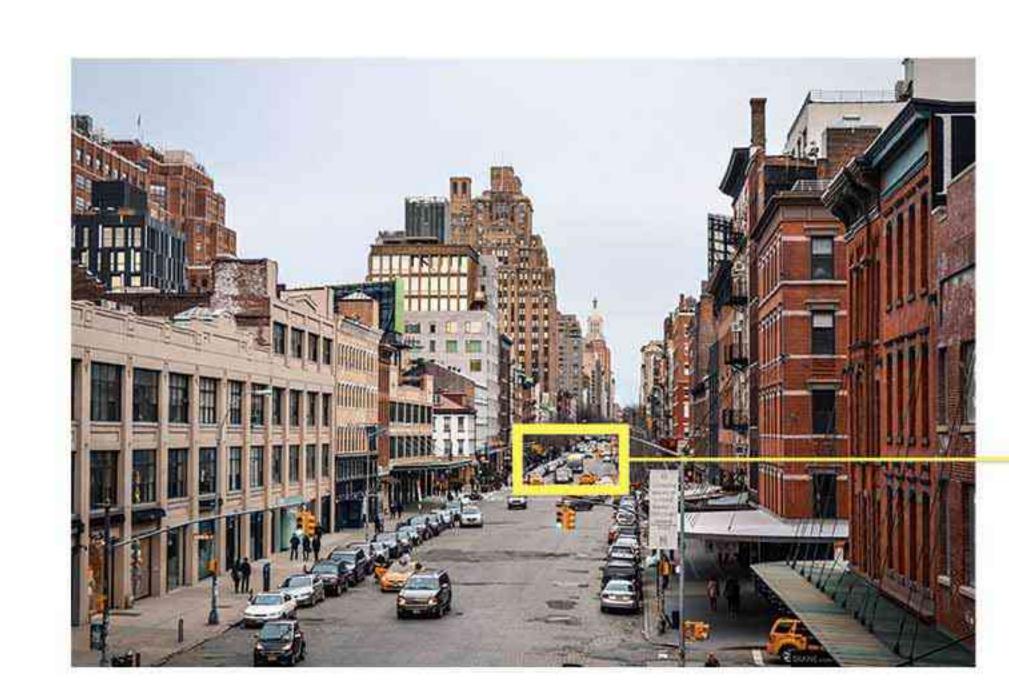
H.265 Compression Technology

Milesight NVRs utilize the latest H.265 codec to use up to 50% less network bandwidth and storage space compared with H.264, while supporting to switch between H.264 and H.265 automatically.



4K High Resolution

With 4K local video output, Milesight NVRs can provide ultra high resolution with no missing any single detail during video monitoring.





UHD Video Display

Equipped with solid 4K decoding and display capabilities, Milesight NVRs can synchronously decode up to 4-CH 4K UHD and 16-CH 1080P with the finest details to guarantee real-time video monitoring.





Multi-video Output

- Independent Outputs
 Multiple outputs to display various channels independently.
- Synchronous Outputs
 The same channel to be displayed at different locations synchronously.



Flexibility

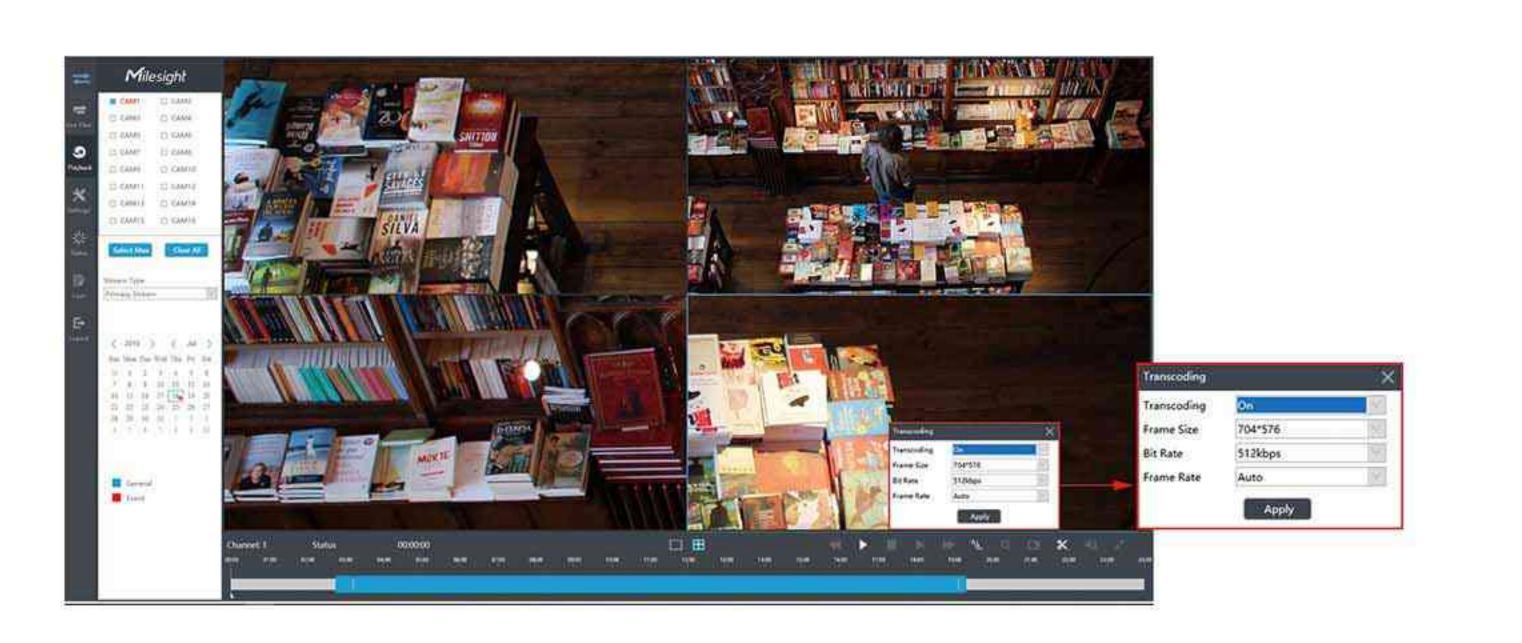
Plug and Play

Milesight PoE NVRs offer a true plug-and-play with the built-in independent PoE switches, where cameras can be easily connected without a lot of network infrastructure work, ensuring users to begin the efficient monitoring in no time.



Transcoding

Based on the CPU capabilities, Transcoding guarantees fluid video experience especially for remote playback even in a poor network connection by reducing the stream data via lowering resolution, bit rate, or frame rate.



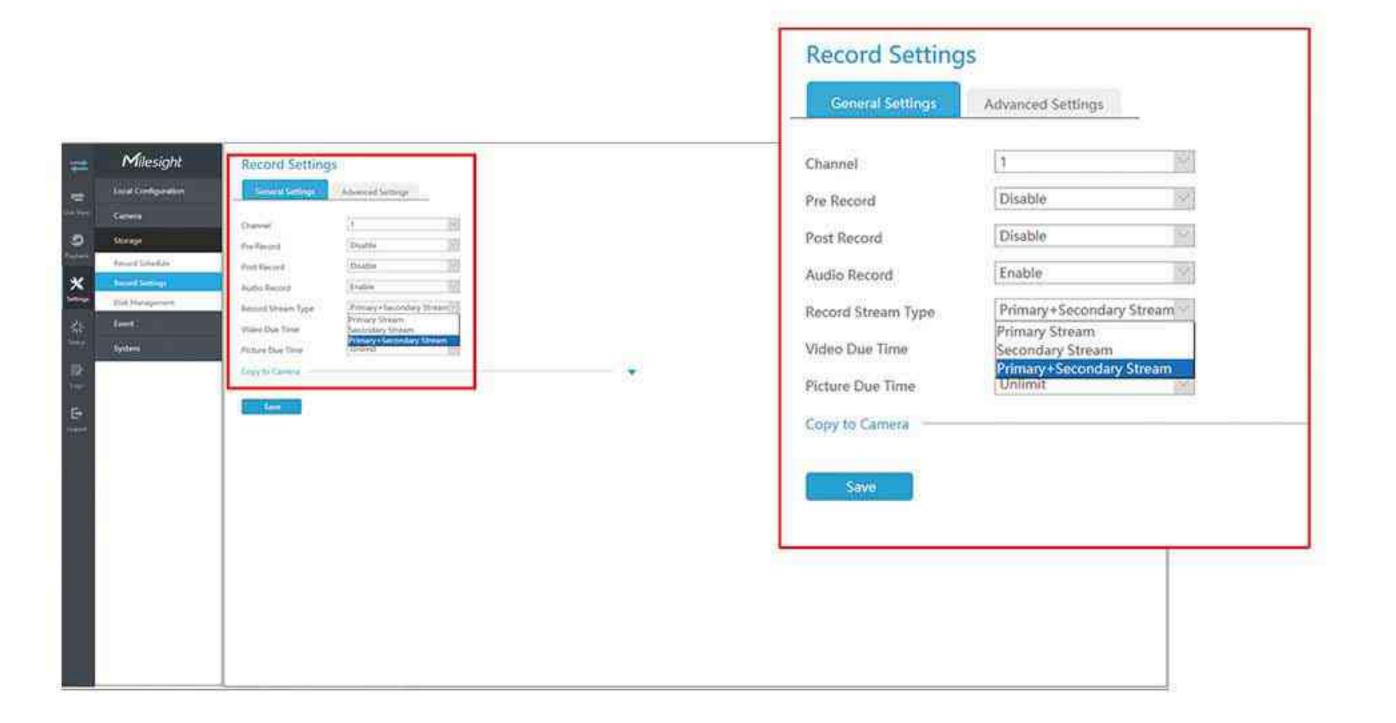
Flexible Storage Options

Flexible storage options including HDD and NAS in Milesight NVRs offer users greater flexibility to address the needs for versatile storage.



Dual Stream Recording

Supporting Primary Stream and Secondary Stream recording simultaneously, Dual Stream Recording makes it possible for users to freely choose the desired streaming based on the bandwidth available.

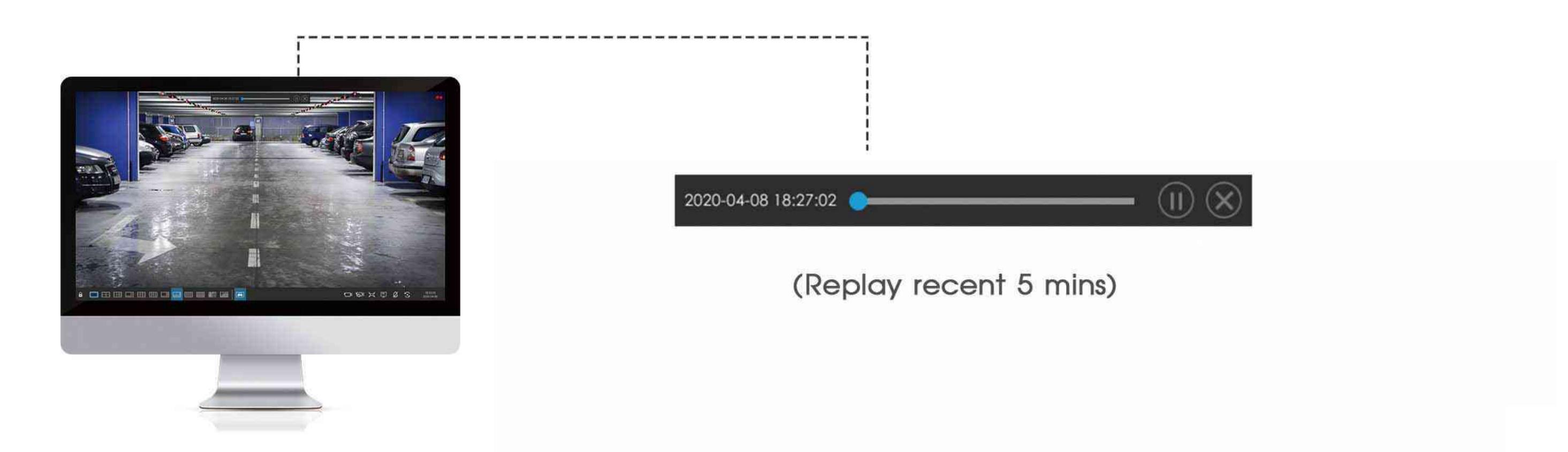


Usability

Easy Playback	Instant Playback, General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback
Easy Backup	Common Backup, Event Backup, Picture Backup
File Management	File Tag, File Lock, File Export
Easy Configuration	Online Upgrade, Virtual Host, Disk Group, Intuitive UI Design

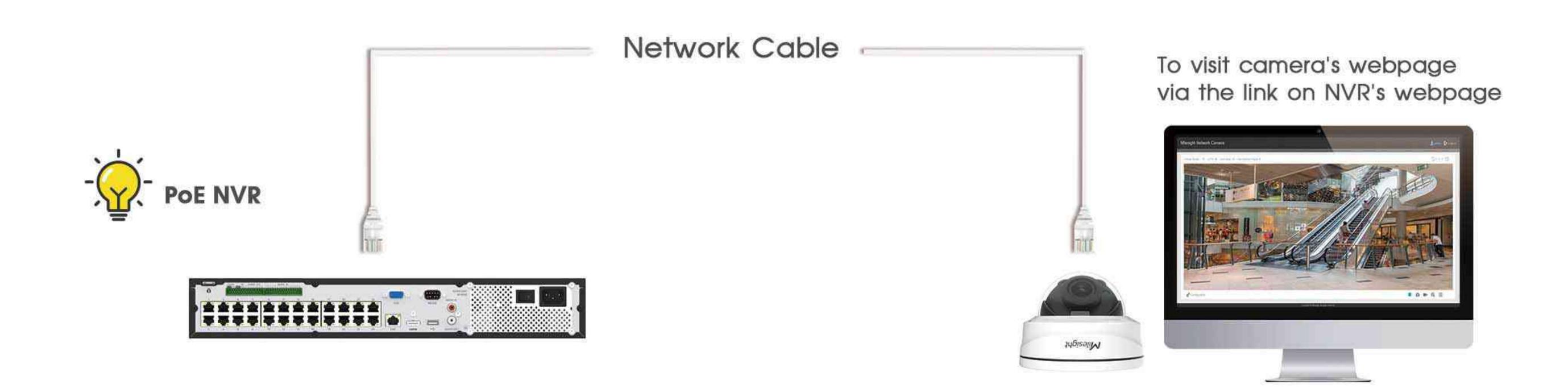
Instant Playback

Instant Playback can replay recorded video within recent 5 mins without performing search functions, facilitating the direct and timely monitoring when users need to monitor one certain camera quickly.



Virtual Host

Virtual Host offers an easy way to directly access the network camera connected to the PoE port by creating a link on Milesight NVR's webpage for users to visit camera's webpage.



Online Upgrade

Being customer-oriented, the firmware including the NVR itself and the connected network cameras can be all easily upgraded online remotely, ensuring the optimal user-experience during configuration.



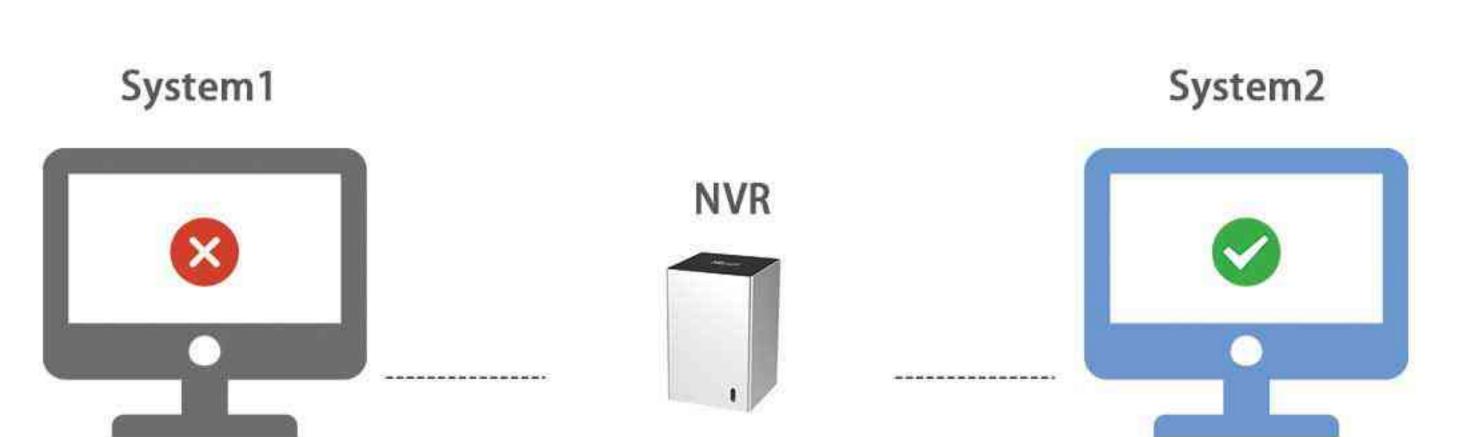
Reliability

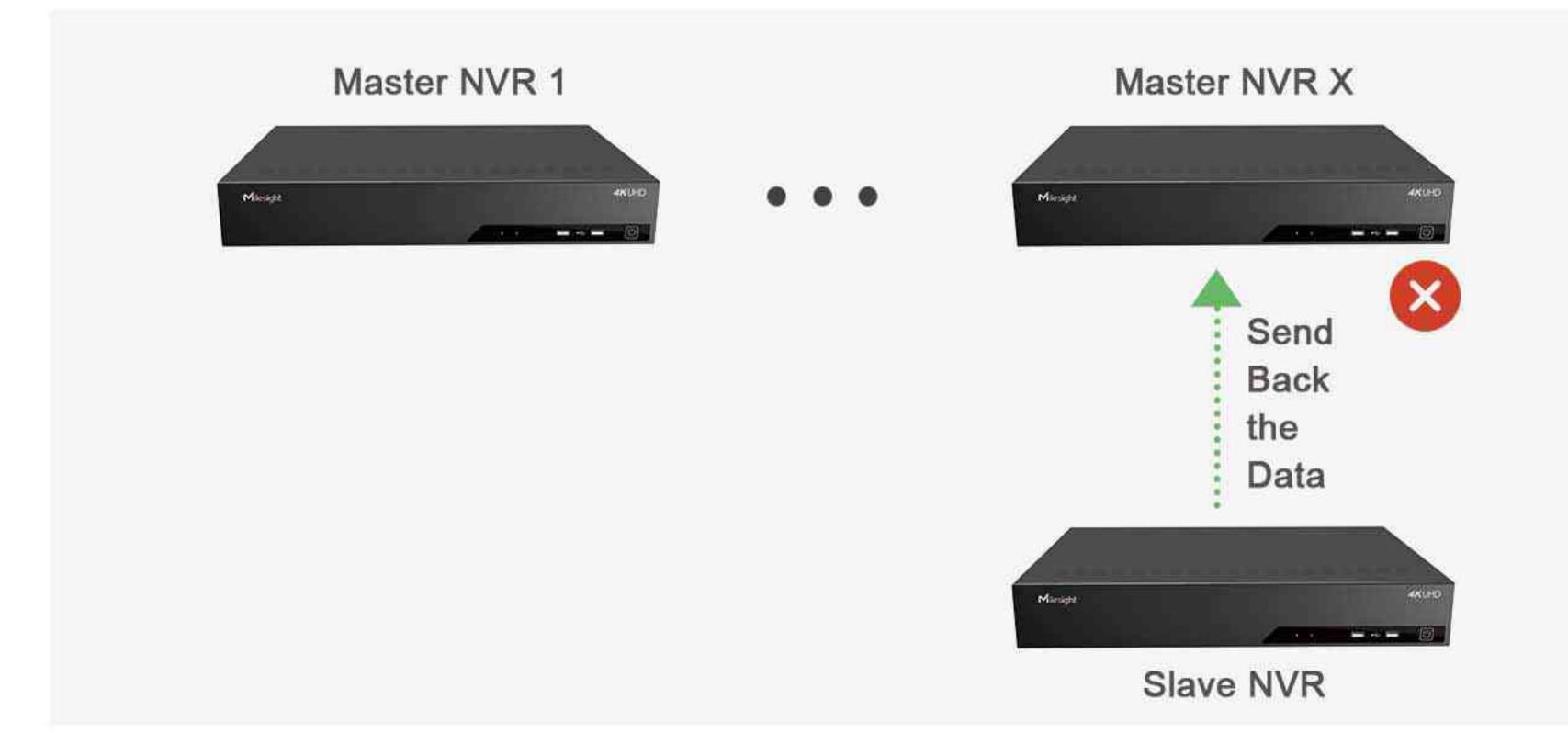
Embedded Linux System



Dual System

Milesight NVRs are born to possess two copies of firmware in the flash. If one of the flash sections ceases, the other firmware will take its place to work, ensuring high reliability of system running.



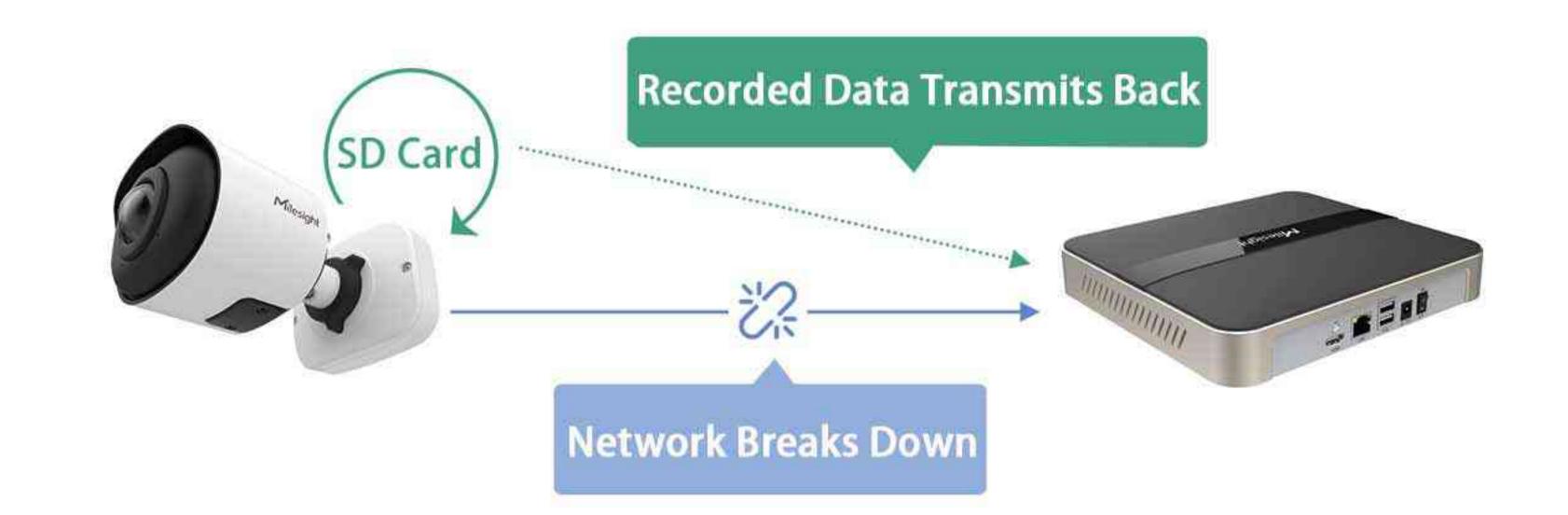


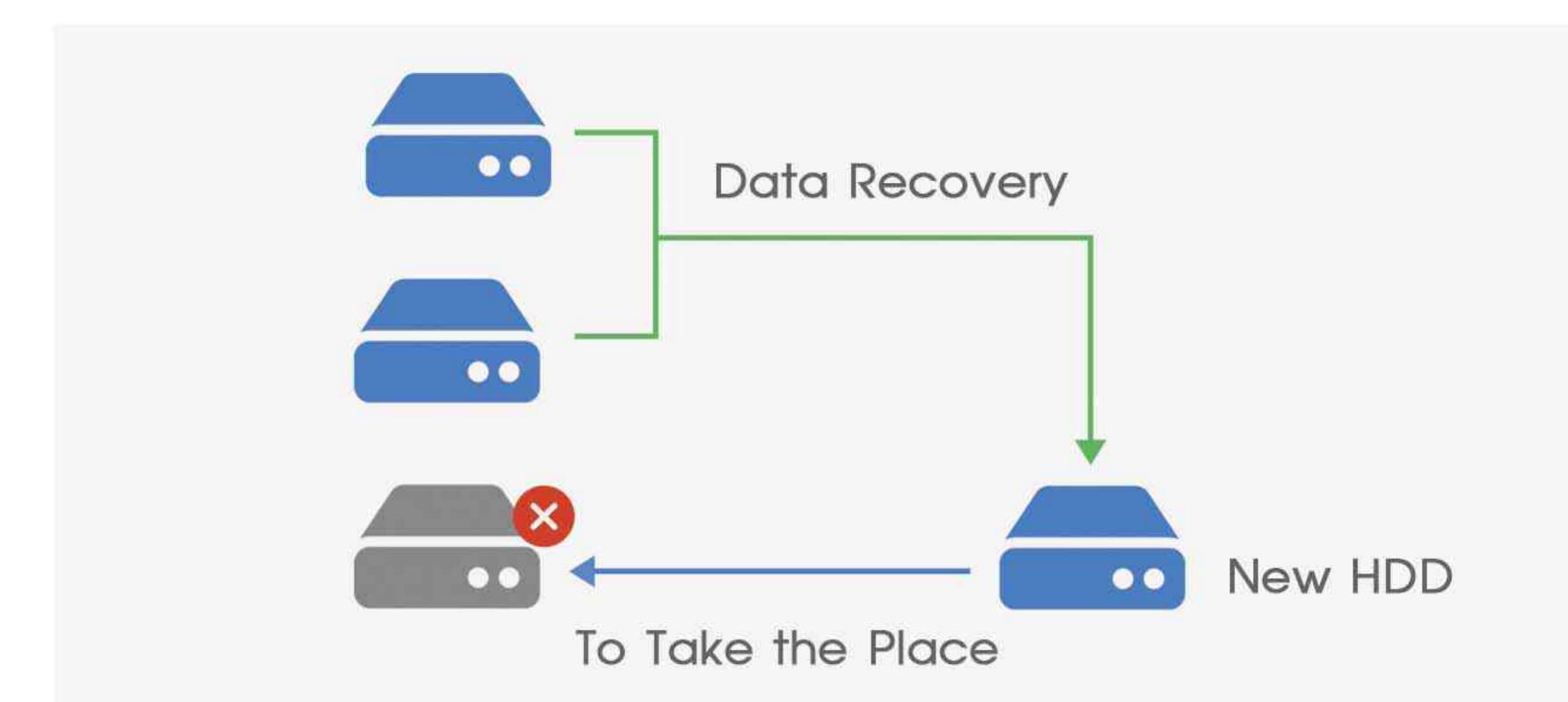
N+1 Hot Spare

Adopting N+1 Hot Spare, when any one of the master NVRs fails, the slave NVR will replace it to keep the system working on and send the data back when the master NVR recovers, ensuring the data integrity and reliability.

ANR (Automatic Network Replenishment)

As a backup operation, ANR can automatically store video data on the camera storage card when network is disconnected and retransfer the recorded video to NVR after network recovers, guaranteeing a reliable system.



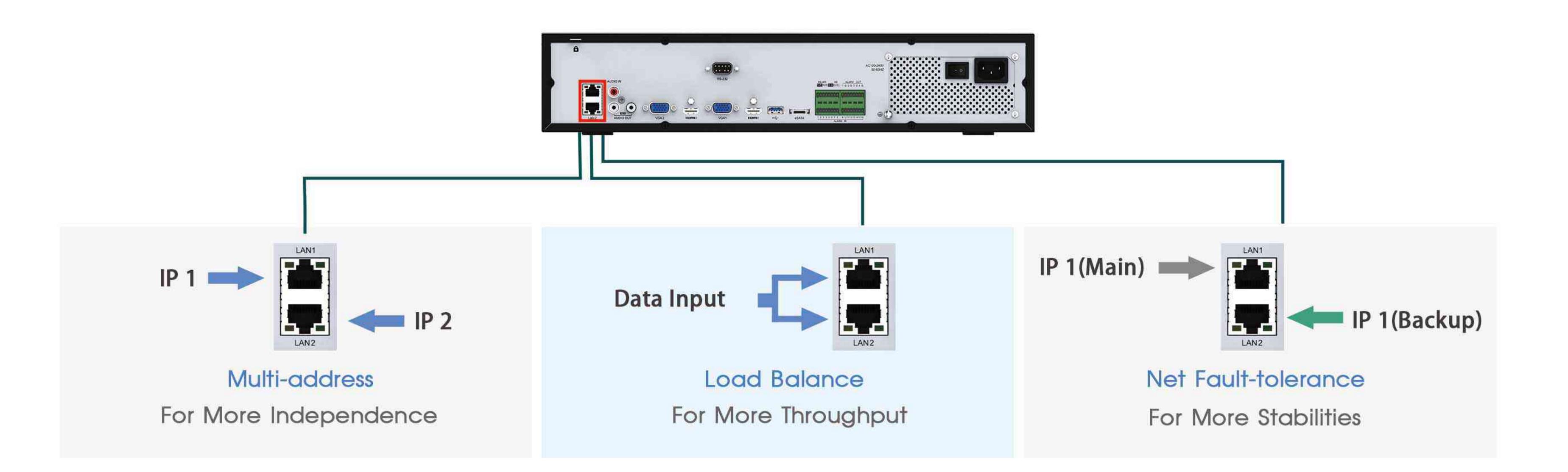


RAID 0/1/5/6/10

Preconfigured with industry-standard RAID levels (0/1/5/6/10), Milesight NVRs can configure the system based on the specific redundancy and performance requirements to ensure more reliable storage against data loss.

MILESIGHT NETWORK VIDEO RECORDER KEY FEATURES

Dual Lan Giga Network Ports



Intelligent Management

Advanced Functions Management

Milesight NVRs provide a fully integration with all Milesight's wide range of network cameras in close loop, ensuring the seamless compatibilities especially with Milesight PTZ functions and Panoramic functions.

PTZ Functions	PTZ Auto Tracking, PTZ Manual Tracking
Panoramic Functions	Heat Map, Fisheye Auto Tracking, Fisheye Dewarping

Smart VCA Management

Milesight NVRs support alarm configurations and event search of Milesight Smart VCA. Once suspicious events detected, the devices can trigger alarms and recordings, helping users improve video surveillance efficiency.



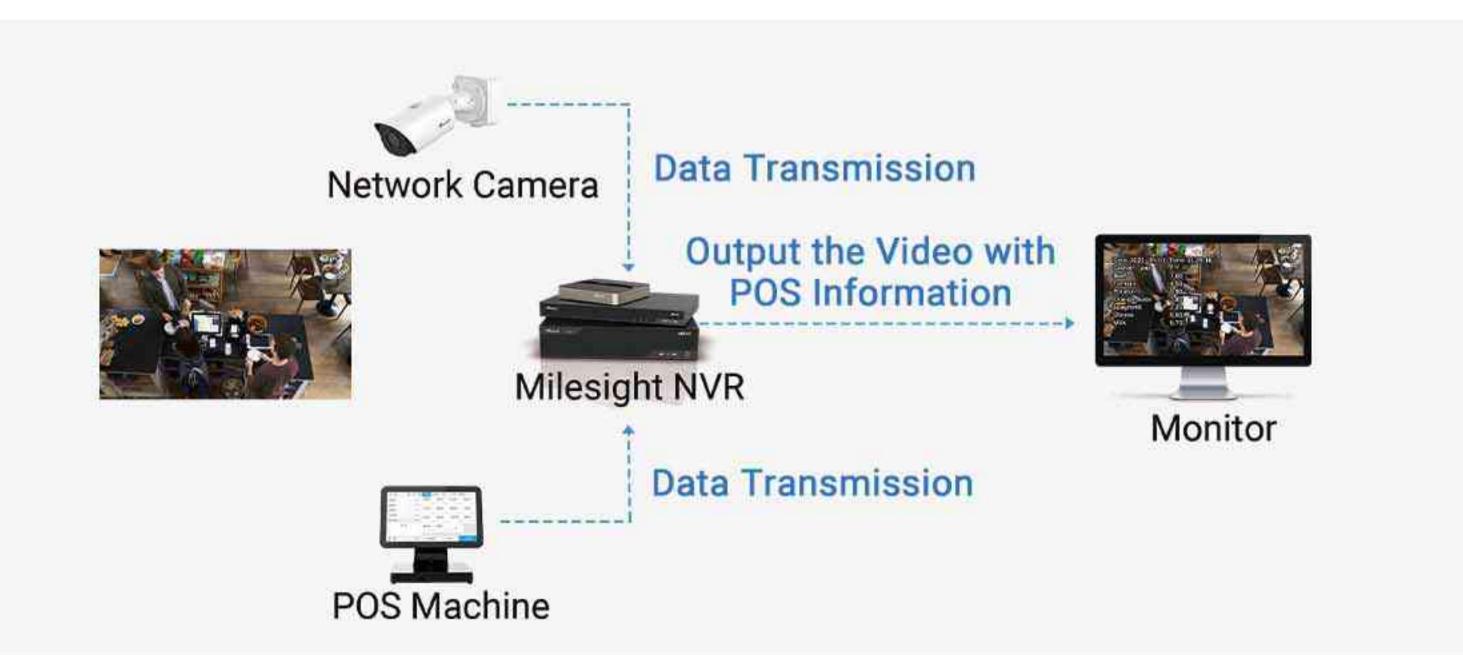
Enterprise ANPR Management

Defined as the Enterprise ANPR management system, Milesight NVRs become the central management site to easily monitor the road traffic, including the real-time preview of the car plates, smart analysis and other more detailed settings.



Integrated POS Solution

The combination of retail transaction data with surveillance videos makes it easy to check goods settlement, miscalculation and missing calculation in the stores, supermarkets and other places, which is helpful to boost customer service and in-store competitive advantage.



Scalability



HTML5 Streaming Ready

HTML5 Streaming which is ready on all Milesight NVRs makes it easy for users to access NVRs via all major browsers without downloading extra plug-in.



Interoperability

Aiming to provide end-to-end video surveillance solution, Milesight NVRs can be accessed and configured remotely via Milesight CMS and APP through P2P or Port Forwarding.



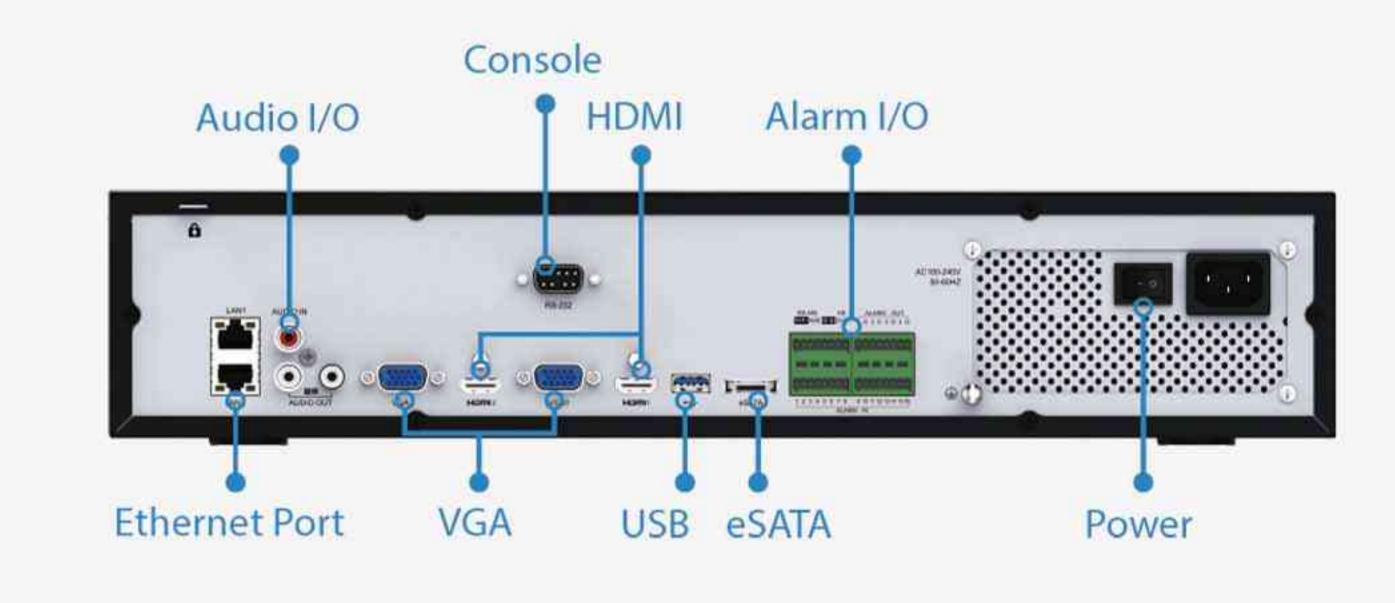
Extensive Third-party Compatibility

To provide a high ecosystem, Milesight NVRs are able to work well with third-party cameras via ONVIF protocols and CGI/API integration.

Structure

Versatile Interfaces

A whole array of ports for more value-added features.



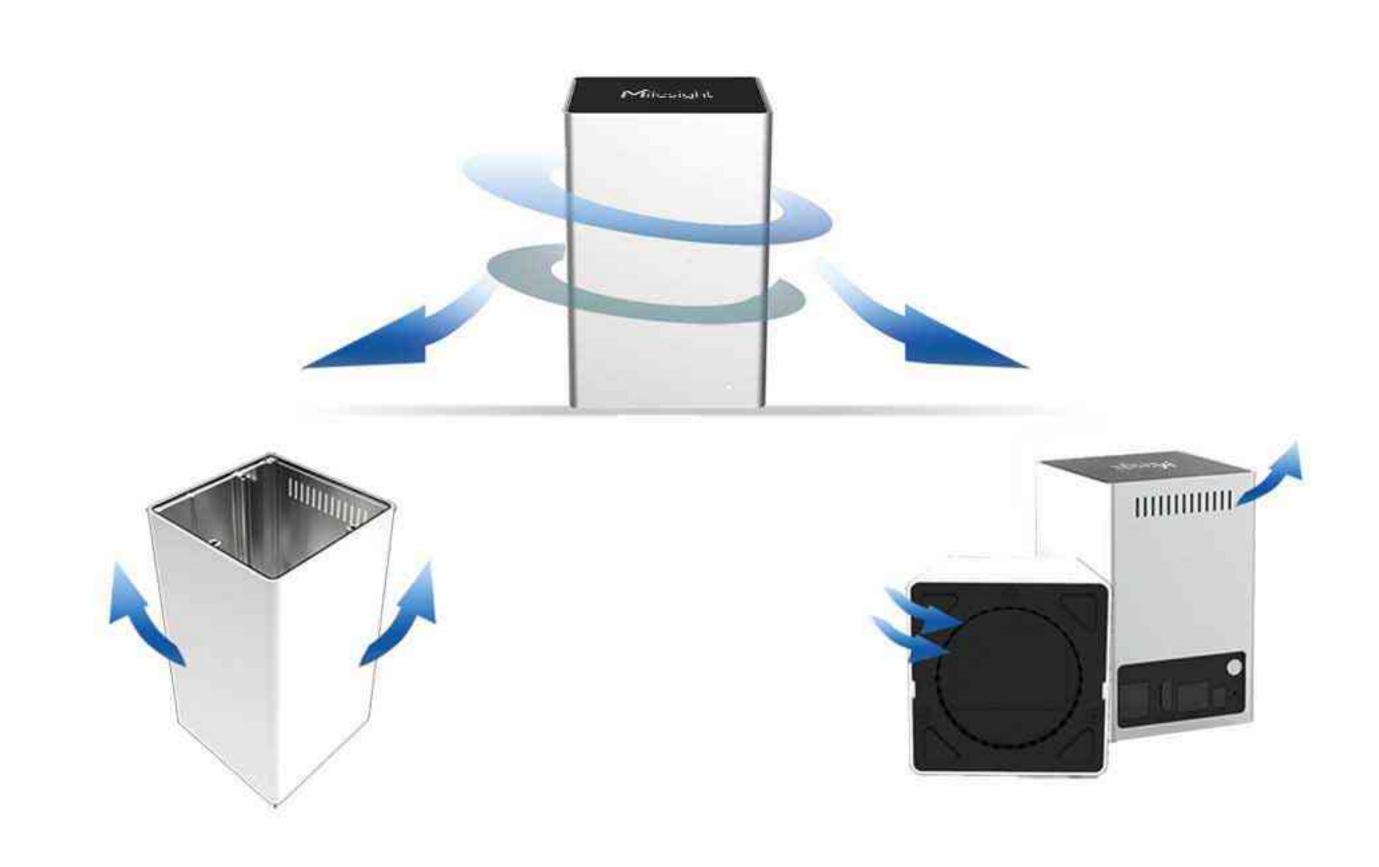
Aesthetics Design

Being tiny to release the full potential.



Thermal Design

Discreet structure, housing design and intelligent fan for effective heat dissipation.



HDD Installation Structure

Designed for convenient and stable hard disk installation.



MILESIGHT NETWORK VIDEO RECORDER KEY FEATURES 30

Milesight VMS Enterprise

ADVANCED C/S ARCHITECTURE / LIVE VIEW / PLAYBACK / VIDEO WALL





Manage Anytime with M-VMS Mobile



M-VMS Mobile(Android)

WHY MILESIGHT VMS ENTERPRISE



Great Flexibility

- Self-adaptive Layout
- Custom Event Rule Settings
- Multi-disk Recording



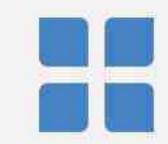
Excellent Reliability

- N+M Failover
- Priority Backup of Appointed Cameras
- Lock of Important Video
- Real-time Monitoring of Running Status



High-level Security

- Customize Roles' Privileges
- Encipherment Password Protection
- Encrypted Video Files



Maximized Extensibility

- Multi Monitors for Displaying
- Scalable Video Wall



User-friendliness

- Multifunction Panels
- Intuitive Interface
- Superior UI Design



Intelligence

- Al Deep-learning Video Analytics
- LPR/ANPR Solution
- Industry-leading Radar Technology

Milesight CMS

LIVE VIEW / PLAYBACK / ELECTRONIC MAP



KEY FEATURES

- Central management system
- Fully integrated with Milesight network cameras and NVRs
- Comprehensive management via IP/Domain, P2P and Milesight DDNS
- H.265/H.264 video compression
- Support multiple monitors (Up to 4 monitors, 64-CH for each monitor)
- Support up to 256 devices
- Support two-layer E-map
- Milesight VCA functions
- Support advanced functions like ANPR solution, Heat Map and Auto Tracking, etc.
- Support Crowd Management Solution

Milesight Smart Tools

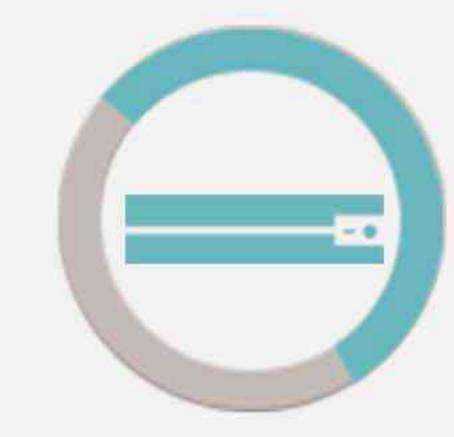
SEARCH / CONFIGURATION / CALCULATION



KEY FEATURES

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







IPC Tools

NVR Tools

Calculators Tools

MILESIGHT SOFTWARE 34

Milesight M-Sight Pro APP

H.265 & H.264 / CUSTOMIZED STREAM PARAMETERS / DUAL STREAM



KEY FEATURES

- Support Milesight Cloud Management
- Simultaneously manage Milesight network cameras and NVRs
- Support Client-side Dewarping for Fisheye Camera
- Support PTZ control and white LED control in live view
- Up to 64-CH live view and 4-CH playback
- Add device via IP/Domain, P2P and Milesight DDNS
- Transcoding to get better playback performance
- Support Alarm Video Push notification
- One click to trigger Alarm Output
- One click to quick playback & playback with NAS, SD card files and HDD files
- Backup the captured images and recorded videos locally for monitoring
- Support up to 16X digital zoom



Milesight Cloud Management

DEVICE BINDING / DEVICE MANAGEMENT / GROUPING

- Support binding the devices with the cloud accounts via Milesight Cloud
- Device Management and Account Management
- Support sharing the devices with another cloud account
- Support for devices grouping and playing devices by group
- Support Device Transfer
- Support Log Search