

4G/5G IP Camera Application Introduction

Xingtera Inc., Santa Clara, USA

2024



Available EagleXT 4G/5G IP Camera Portfolio



Type	Model	Features
4G/5G Bullet IP Camera	XTEE40216/50216/50516	2MP/5MP, 16X lens, 4G/5G-Sub6
Low Latency 5G IP Camera	XTEE50216/51516-LL	2MP/5MP, 16X lens, 5G-Sub6, 100-200ms Low Latency
5G Bullet IP Camera	XTEE5041-Sub6	4MP, 4/6/8mm lens, 5G-Sub6
5G Bullet IP Camera	XTEE5041-mmWave	4MP, 4/6/8mm lens, 5G-mmWave
4G/5G Bullet AI IP Camera	XTEE41516/51516	5MP, 16X lens, 4G/5G-Sub6, 2TOPS AI
5G Bullet AI IP Camera	XTEE51216	2MP, 16X lens, 5G-Sub6, 15TOPS AI
Exib 4G/5G Bullet IP Camera	XTEE40516/50516-EX	5MP, 16X lens, 4G/5G-Sub6, intrinsically safe, explosion-proof
4G Dome IP Camera	XTEE40220	2MP, 20X lens, Dome camera, 4G LTE
5G Dome AI IP Camera	XTEE51440	4MP, 40X lens, Dome camera, 5G-Sub6, AI Built-in

Xingtera Will Be Your Best Partner for 5G Cameras



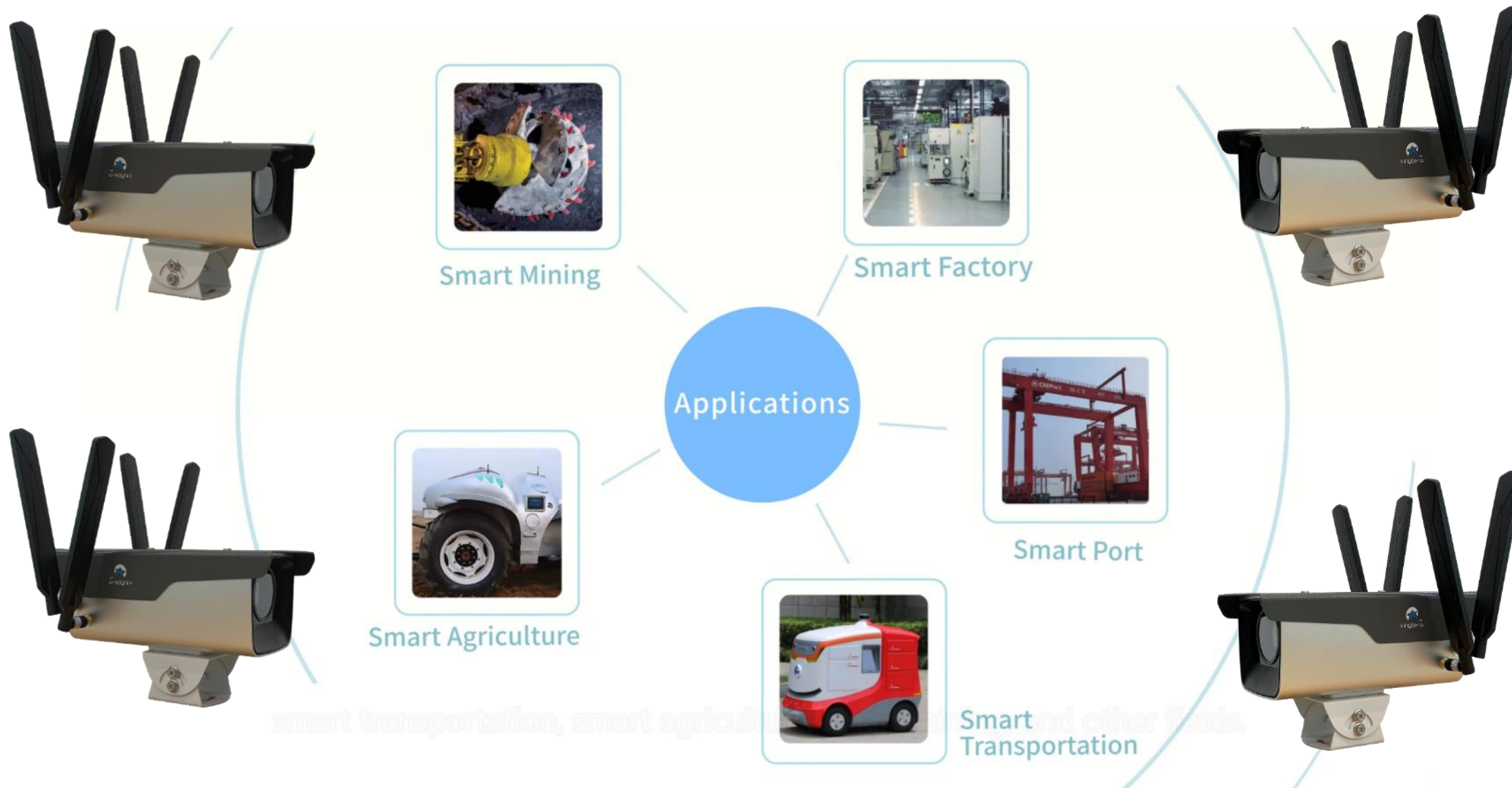
1

Xingtera Know Camera More Than 5G Experts

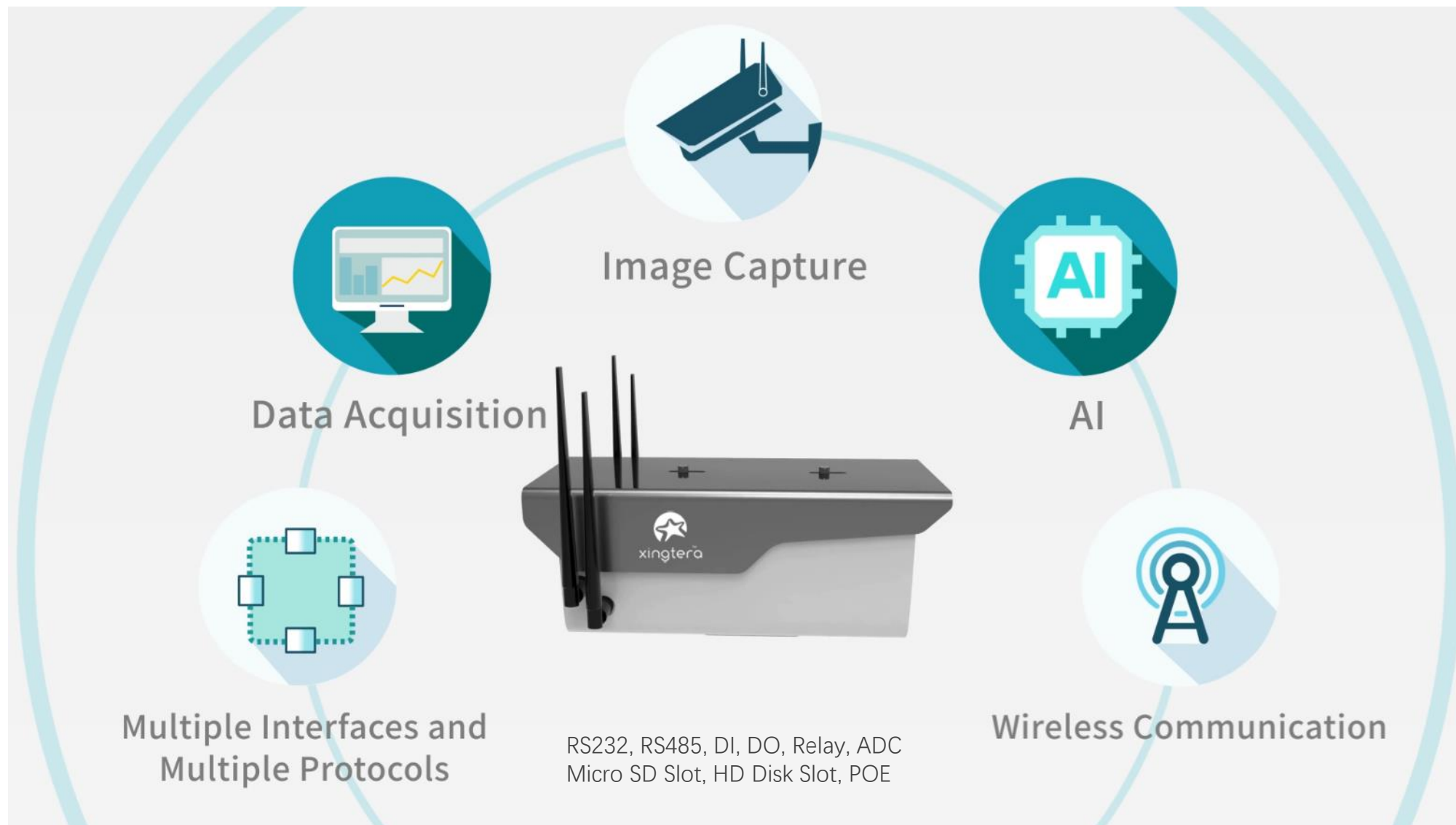
Xingtera Know 5G More Than Camera Experts

2

4G/5G IP Camera Widely Applied for Various Industries

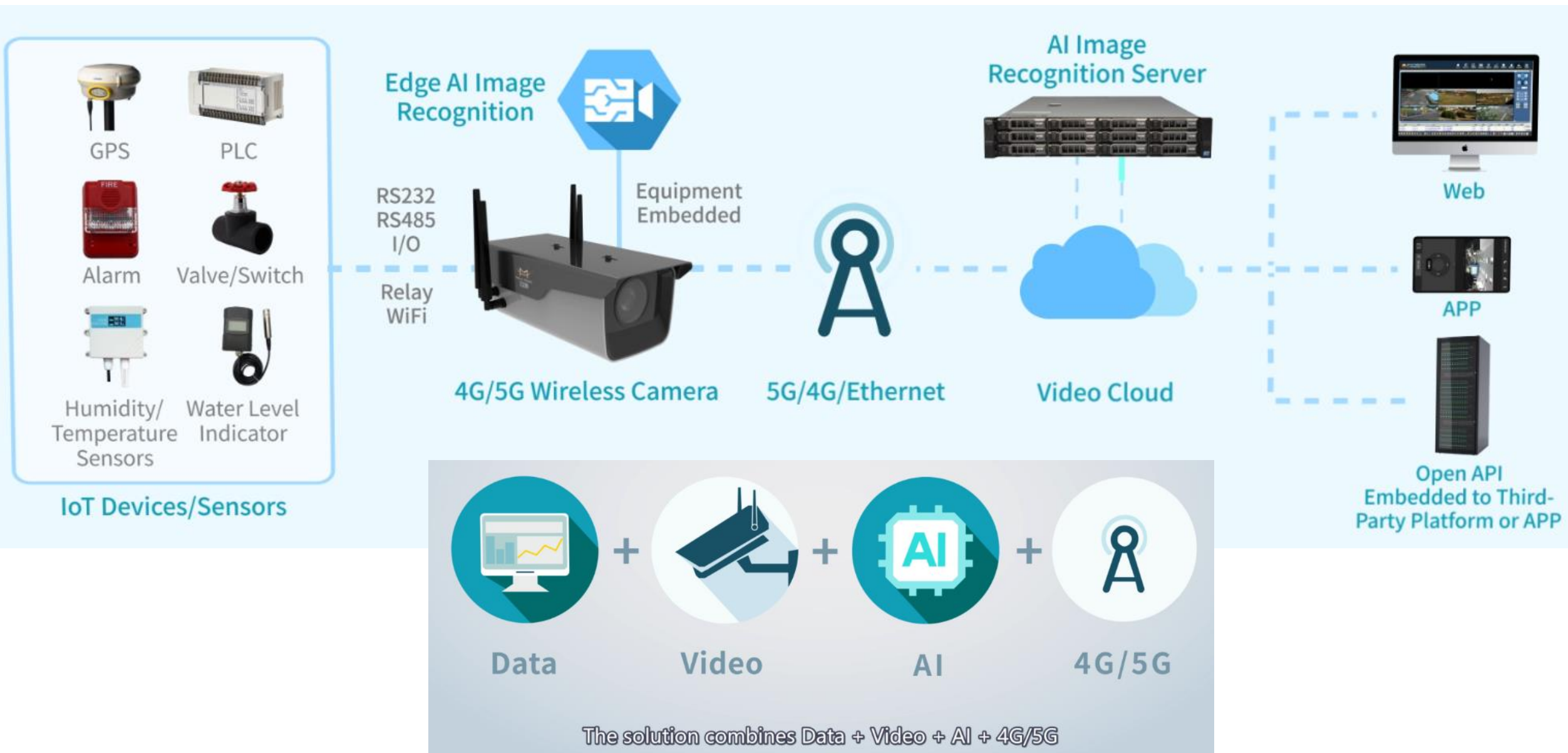


Powerful Functions of 5G IP Camera

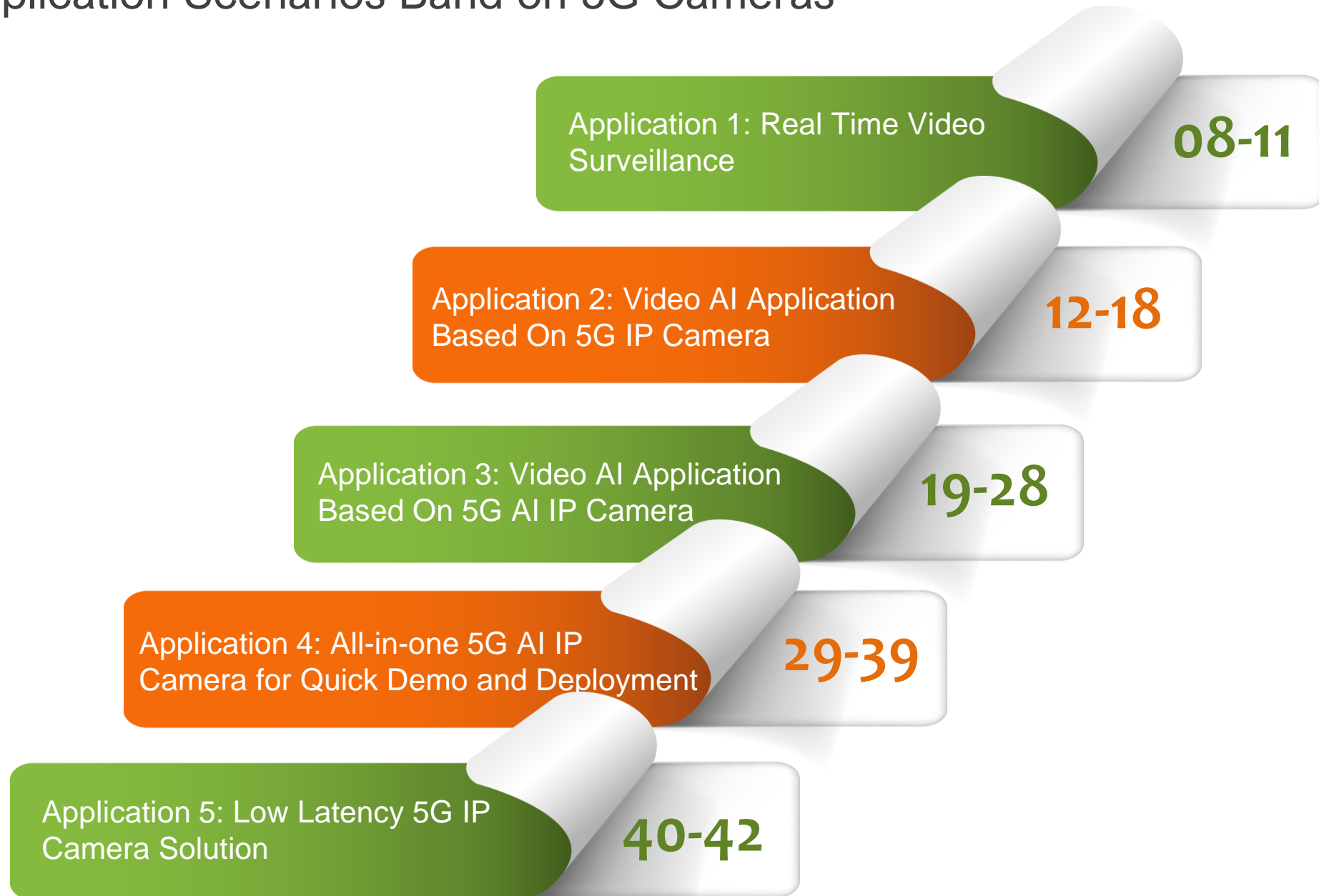


IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DHCP, NTP, SNMP, NFS, CIFS, FTP, SFTP, SMTP, Onvif Profile S, Modbus RTU MQTT

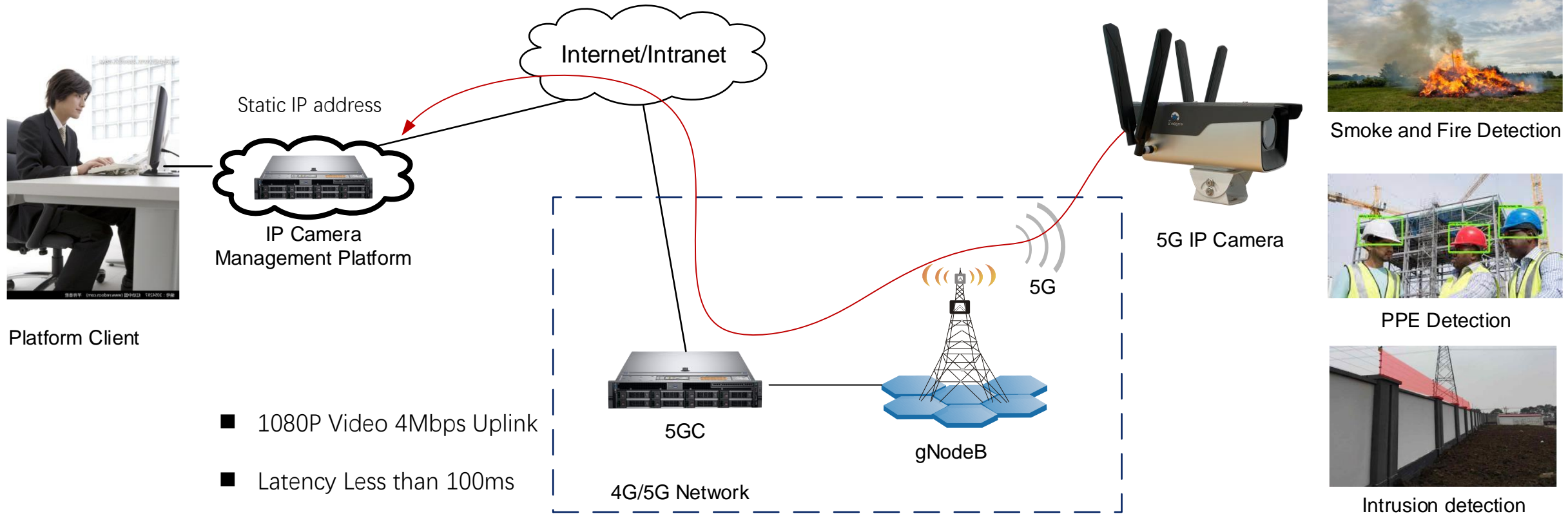
End to End Smart AIOT Surveillance Solution



Five Application Scenarios Band on 5G Cameras



Application 1: Real Time Video Surveillance



Xingtera provide 5G IP camera and camera backend management platform end to end solution

Remote Video Surveillance in USA Private CBRS Network



Campus of one University



Gate of Village House

5G Camera Support Cloud Camera Management Platform



Preview Playback **Configuration** admin Logo

Media

Image

Event >

Storage

Network

Application

Status >

System >

Port Settings IP Address HTTPS SMTP **Cloud** FTP/SFTP 4G/5G GBT Settings Wi-Fi Online Reporting RTMP RTP

Route

Enable: ☒

Current Connection Status: **Connected**

Cloud Server Type: AloT Cloud

Cloud Server Address: 125.77.202.162

Cloud Server Port: (1-65535) 1171

Device Registration ID: 54d0b4c01655

Save

Cloud Camera Management Platform Interface

Intelligent IoT Monitoring Screen

Network Status

Realtime Network Usage

219 KB/s

Device Connection No.

8

NVR

Total

0

Online

0

0% Online

IPC

Total

3

Online

2

66% Online

Multi-Monitoring

XT 5G IPC-1



XT 5G IPC 1-1



Alarm Infor 1



0 Today Alarms



0 Unhandled Alarms

0% Processed

Alarm Infor 2



Today Alarms

0



Processed Alarms

0



Unhandled Alarms



0



This Month Alarms

0

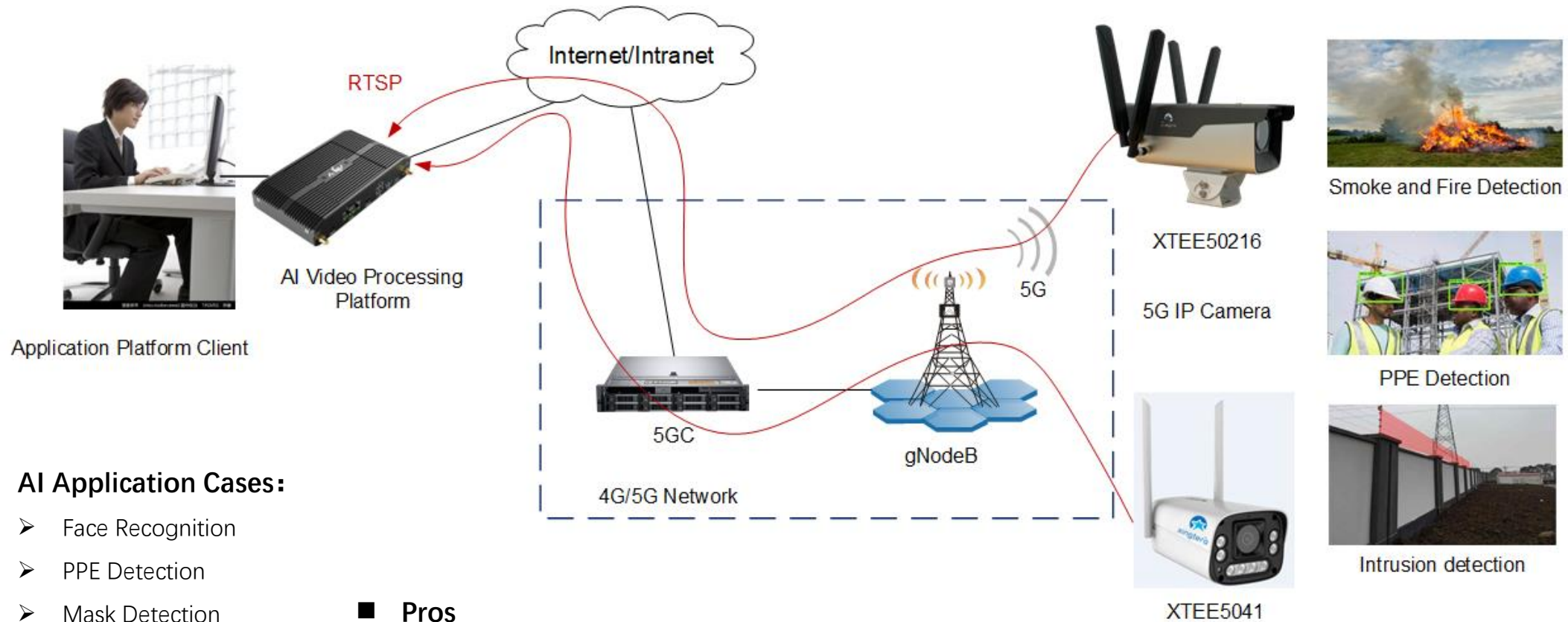
Device Status List

Type	Name	Organization	Video
IPC	XT 5G IPC	shxdbdt	
IPC	XT-5G IPC 1	shxdbdt	

Device Type



Application 2: Video AI Application Based On 5G IP Camera



AI Application Cases:

- Face Recognition
- PPE Detection
- Mask Detection
- Fence Intrusion Detection
-

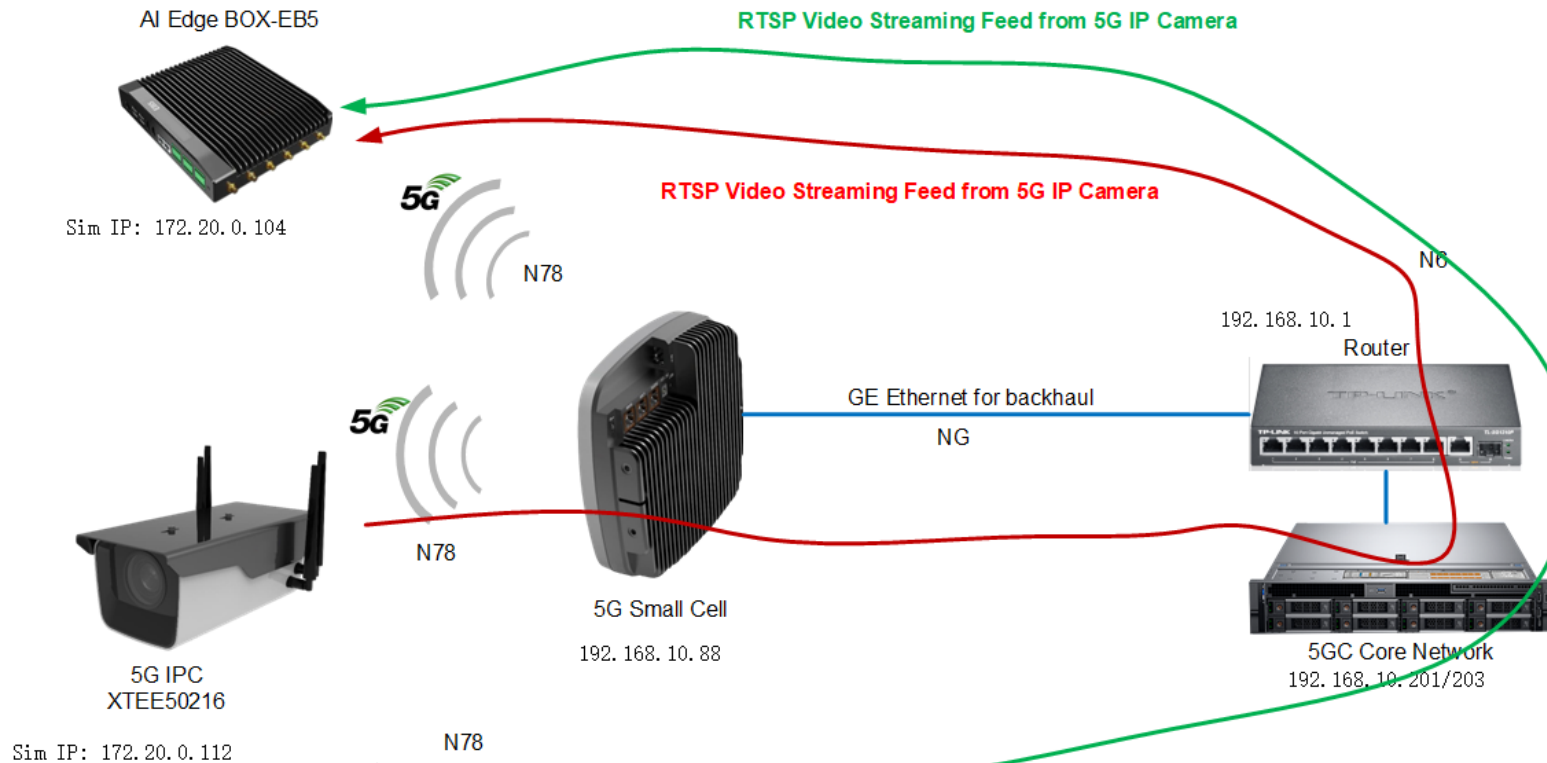
■ Pros

- Dedicated AI BOX to provide AI algorithm independently and efficiently
- Any IP camera can be accessed to AI BOX to support AI video application

■ Cons

- **Large uplink bandwidth consumed** by real time video streaming, challenge 4G/5G cellular cell uplink throughput
- **Transmission Latency** due to video or image transmission from camera to AI BOX
- **Fixed IP address required** for 5G SIM in camera in order for AI Box to get RTSP or ONVIF video streaming from camera

Application 2-1: UE-UE Video AI Application Based On 5G IP Camera



■ Pros

- Dedicated AI BOX to provide AI algorithm independently and efficiently
- Flexible deployment for AI BOX with just inserted SIM card and power supply.

■ Cons

- **Large uplink bandwidth consumed** by real time video streaming, challenge 4G/5G cellular cell uplink throughput
- **Transmission Latency** due to video or image transmission from camera to AI BOX
- **Fixed IP address required** for 5G SIM in camera in order for AI Box to get RTSP or ONVIF video streaming from camera
- **High Requirement for 5G RAN Performance** if you want to get UE –UE stable video communication

5G IP Camera Specification(XTEE50216)

KEY FEATURES

- ✧ **H.265**, optimized in bit rate, bandwidth and storage usage, 50% less than those of H.264.
- ✧ **Super WDR**, up to 140dB wide dynamic range to ensure all the bright and dark areas are well presented.
- ✧ **IP67**, weather proof, providing solid stability and durability.
- ✧ **16X AF Lens**, keeping the clarity and focus on the target objects rapidly to deliver the high-quality image
- ✧ **5G/4G Cellular Network**, providing long distance, low latency HD video wirelessly by using the industrial grade 5G/4G module.



Model	XTEE50216
CAMERA	
Image Sensor	1/2.8" Progressive Scan CMOS
Resolution	2MP
Min. Illumination	Color: 0.002Lux@F1.2 B/W: 0Lux with IR on
WDR	Super WDR up to 140dB
Shutter Time	1/100000s~1/5s
IR Distance	150m
Day & Night	ICR Filter Auto Switch
Lens	16X AF Motorized Lens 5.85~93.6mm @F1.8~F3.9
Field of View	H55.4°~H3.55° D62.6°~D4.05° V31.6°~V2°

CELLULAR	
Standard	5G NR, LTE FDD, LTE TDD, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE
Bandwidth	5G NR: Downstream rate 2.5Gbps, uplink rate 350Mbps FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps
Transmit Power	<23dBm
Sensitivity	<-97dBm
VIDEO	
Max. Image Resolution	1920x1080
Primary Stream	30fps@(1920×1080, 1280×960, 1280×720, 704x576)
Video Compression	H.265(HEVC)/H.264/MJPEG
Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)
Image Setting	Brightness/Contrast/Saturation/Sharpness

5G IP Camera Specification(XTEE50516)

KEY FEATURES

- ✧ **H.265**, optimized in bit rate, bandwidth and storage usage, 50% less than those of H.264.
- ✧ **Super WDR**, up to 140dB wide dynamic range to ensure all the bright and dark areas are well presented.
- ✧ **IP67**, weather proof, providing solid stability and durability.
- ✧ **16X AF Lens**, keeping the clarity and focus on the target objects rapidly to deliver the high-quality image
- ✧ **5G/4G Cellular Network**, providing long distance, low latency HD video wirelessly by using the industrial grade 5G/4G module.



Model	XTEE505-16(16X)
CAMERA	
Image Sensor	1/2.8" Progressive Scan CMOS
Resolution	5M
Min. Illumination	Color: 0.002Lux@F1.2 B/W: 0Lux with IR on
WDR	Super WDR up to 140dB
Shutter Time	1/100000s~1/5s
IR Distance	150m
Day & Night	ICR Filter Auto Switch
Lens	16X AF Motorized Lens 5.85~93.6mm @F1.8~F3.9
Field of View	H55.4°~H3.55° D62.6°~D4.05° V31.6°~V2°

CELLULAR	
Standard	5G NR, LTE FDD, LTE TDD, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE
Bandwidth	5G NR: Downstream rate 2.5Gbps, uplink rate 350Mbps FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps
Transmit Power	<23dBm
Sensitivity	<-97dBm
VIDEO	
Max. Image Resolution	2560x1920
Primary Stream	30fps@(2560×1920, 1280×960,1280×720, 704x576)
Secondary Stream	30fps@(704x576, 640×480, 640×360, 352x288, 320x240, 320x192, 320x176)
Teriary Stream	30fps@(1920×1080, 1280×720, 704×576, 640×480, 640×360, 320×240, 320x192, 320x176)
Video Compression	H.265(HEVC)/H.264/MJPEG
Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)
Image Setting	Brightness/Contrast/Saturation/Sharpness

5G IP Camera Specification(XTEE5041-Sub6)



KEY FEATURES

- ✧ **H.265**, optimized in bit rate, bandwidth and storage usage, 50% less than those of H.264.
- ✧ **Super WDR**, up to 140dB wide dynamic range to ensure all the bright and dark areas are well presented.
- ✧ **IP67**, providing solid stability and durability in a harsh environment.
- ✧ **5G/4G Cellular Network**, providing long distance, low latency HD video wirelessly by using the industrial grade 5G/4G module.
- ✧ **Support TF card storage**



CAMERA	
Image Sensor	1/2.8" Progressive Scan CMOS
Resolution	4M
Min. Illumination	Color: 0.01Lux, IR: 0.001Lux
WDR	Super WDR up to 140dB
Shutter Time	1/100000s~1/5s
IR Distance	50m
Day & Night	ICR Filter Auto Switch
Lens	Fixed Lens: 4mm/6mm/8mm @F2.2
Field of View	H79.1°/D94.9°/V43.3°/f=4mm

CELLULAR	
Standard	5G NR, LTE FDD, LTE TDD, UMTS
Frequency Bands	NR: n1/ 2/ 3/ 5/ 7/ 8/ 12/ 20/ 25/ 28/ 38/ 40/ 41/ 48/ 66/ 71/ 77/ 78/ 79 LTE: B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12(17)/ 13/ 14/ 18/ 19/ 20/ 25/ 26/ 28/ 29/ 30/ 32/ 34/ 38/ 39/ 40/ 41/ 42/ 43/ 46(LAA)/ 48/ 66/ 71 UMTS: B1/ 2/ 3/ 4/ 5/ 6/ 8/ 19
Transmit Power	Class 3, < 23dBm
Sensitivity	< -97dBm
VIDEO	
Max. Image Resolution	2560x1440
Primary Stream	2560x1440@25fps, 1280x720@25fps, 640x480@25fps
Video Compression	H.264/H.265/MJPEG/JPEG baseline
Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)

5G IP Camera Specification(XTEE5041-mmWave)

KEY FEATURES

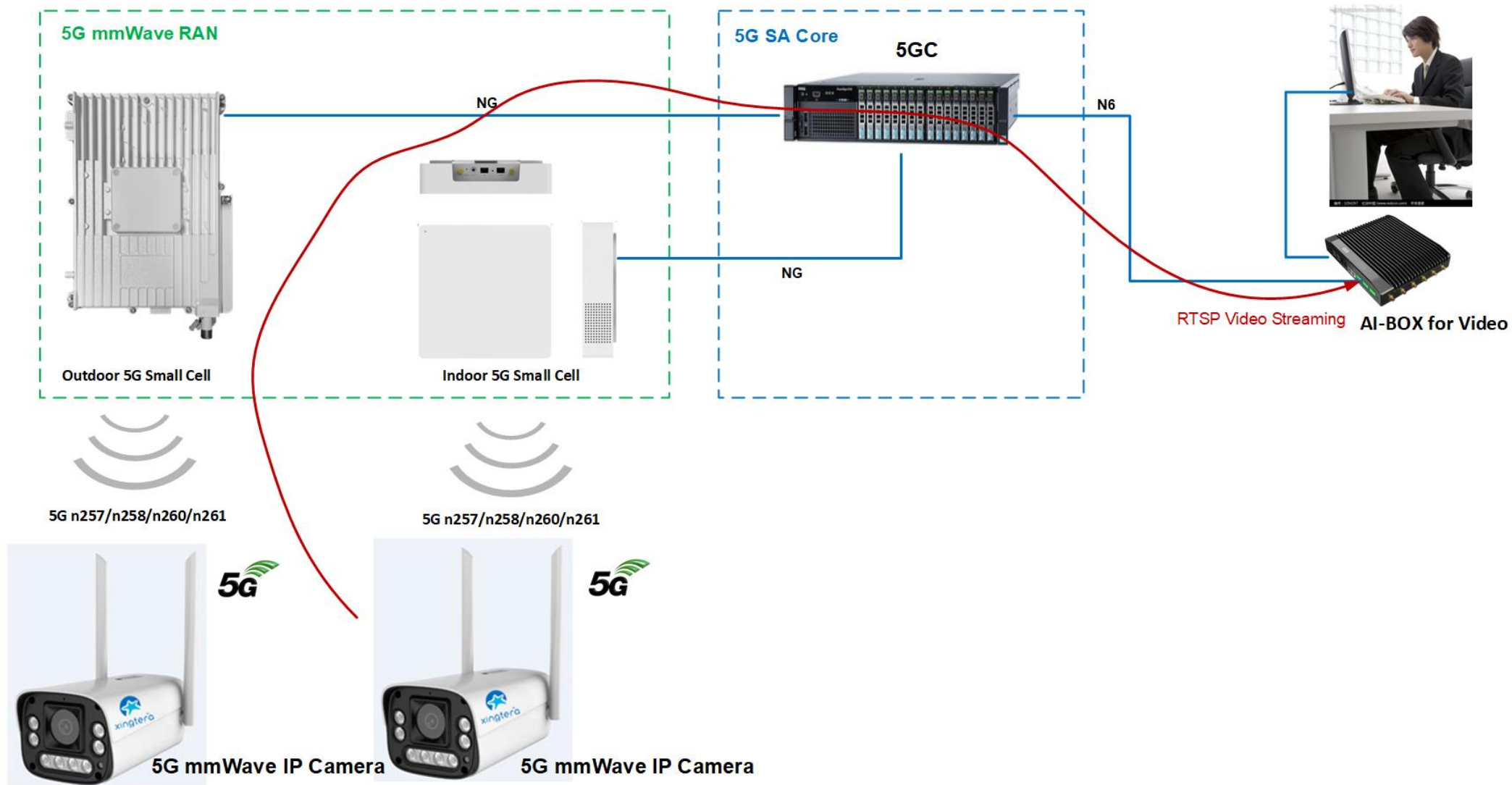
- ✧ **H.265**, optimized in bit rate, bandwidth and storage usage, 50% less than those of H.264.
- ✧ **Super WDR**, up to 140dB wide dynamic range to ensure all the bright and dark areas are well presented.
- ✧ **IP67**, providing solid stability and durability in a harsh environment.
- ✧ **5G mmWave Cellular Network**, providing long distance, low latency HD video wirelessly by using the industrial grade 5G module.
- ✧ **Support TF card storage**



CAMERA	
Image Sensor	1/2.8" Progressive Scan CMOS
Resolution	4M
Min. Illumination	Color: 0.01Lux, IR: 0.001Lux
WDR	Super WDR up to 140dB
Shutter Time	1/100000s~1/5s
IR Distance	50m
Day & Night	ICR Filter Auto Switch
Lens	Fixed Lens: 4mm/6mm/8mm @F2.2
Field of View	H79.1°/D94.9°/V43.3°/f=4mm

CELLULAR	
Standard	5G NR (SA/NSA EN-DC/NR-DC) , LTE FDD, LTE TDD, WCDMA
Bands	5G Sub6 SA or NSA: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N77/N78/N79 5G mmWave SA or NSA: N257/N258/N261 LTE: B1/B3/B5/B7/B8/B18/B19/B20/B28/B32/ B34/B38/B39/B40/B41/B42
Transmit Power	QTM547(Class 1 35dBm) for N257/N258/N261
Sensitivity	< -97dBm
VIDEO	
Max. Image Resolution	2560x1440
Primary Stream	2560x1440@25fps, 1280x720@25fps, 640x480@25fps
Video Compression	H.264/H.265/MJPEG/JPEG baseline
Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)

Video AI Application Based On 5G mmWave IP Camera



AI BOX Specification

Product introduction

Edge AI Box features advanced AI and codec capabilities, bringing massive high-quality video for real time AI analysis and inferencing at the edge, and upload the structured data to the cloud, to extend the boundaries of cloud computing, enable an intelligent transformation of existing infrastructure. Embedded with rich OSware.Edge, supports edge-cloud synergy, remote AI algorithm and application deployment, it delivers superior 15 TOPS of AI performance and up to 24 channels full HD video processing based on Qualcomm QCS8250

Product features

- Support **15 TOPS** AI performance, up to **24 channels FHD video decoding**
- Support rich interfaces and good scalability, extensible **storage expansion and 5G function**
- Industrial design, stable and reliable equipment
- **End-to-end** security mechanism to ensure device security;
- End edge cloud collaboration facilitates development, operation and maintenance

Application scenarios



Smart Retail



Smart Factories



Smart Building



Smart Traffic



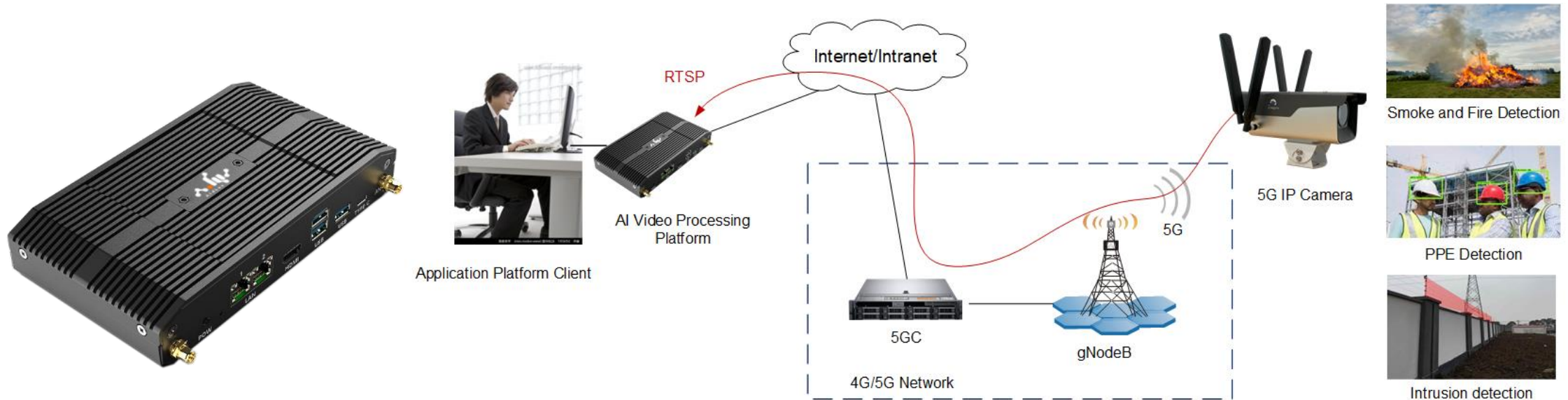
Smart Grid



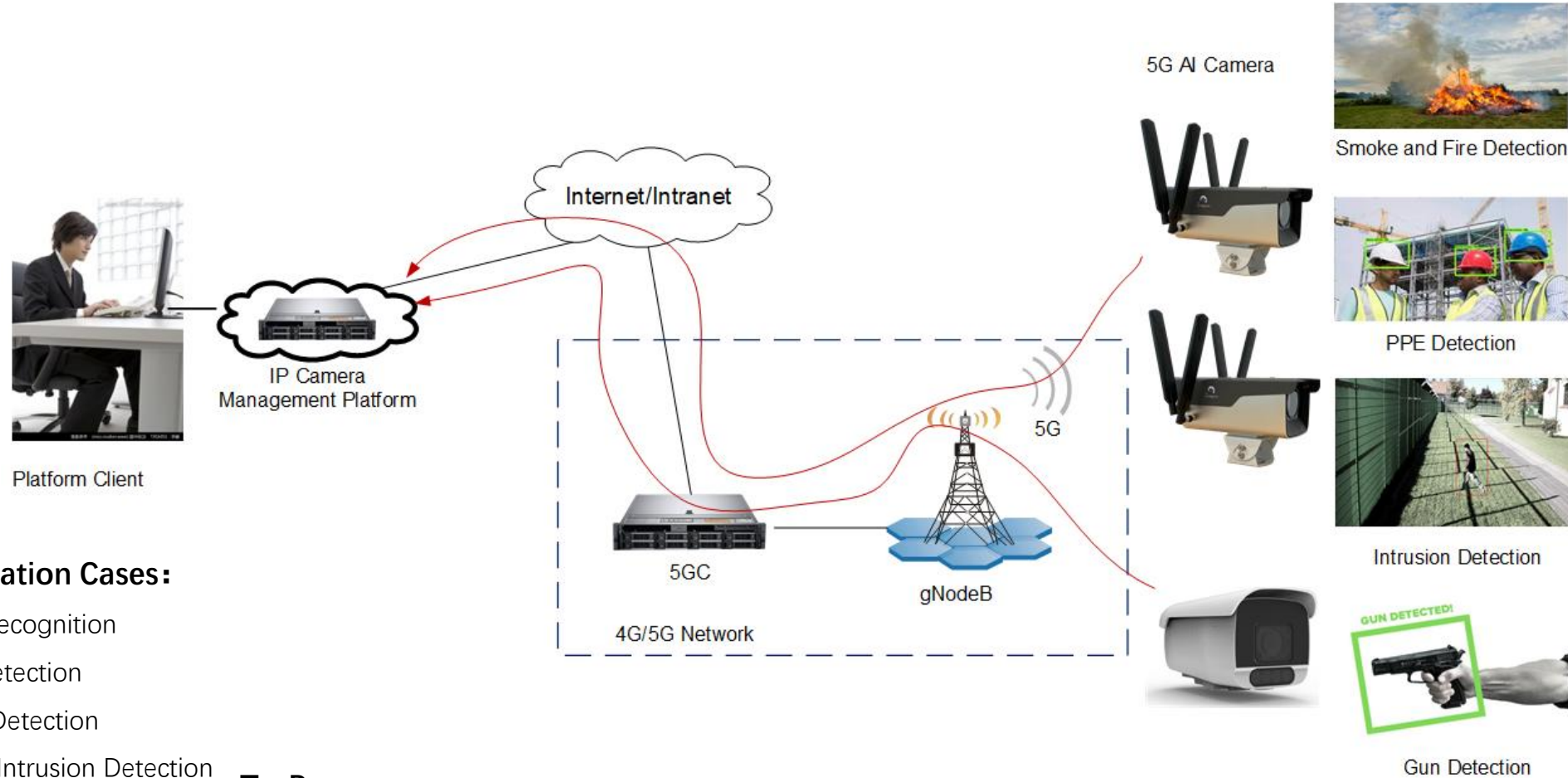
Platform	OS	Android/Linux
	SoC	Qualcomm® QCS8250
System Memory	RAM	8GB, LPDDR5
Display	Output	1x HDMI2.0 out, 1080p@60fps 1x DP1.2 out, 4K@60fps
	Flash	128GB UFS3.1 on board
Storage	Expansion	1x MicroSD Card
	USB	4x USB 3.0 Type A , 1x USB3.1 Type C(OTG)
I/O	Micro SD	1x Micro SD slot
	Ethernet	2x Gigabit ethernet(10/100M/1000M)
	COM Port	2x RS232, 2x RS485
	CAN	2x CAN bus
	DI/DO	8 DI/DO(4 DI, 4 DO)
	WIFI	802.11a/b/g/n/ac/ax, 2x2 MIMO
	Audio	1x MIC, 1x Earphone
Power	DC Input	DC 12V 5.5A
	Dimension	185mm x 102mm x 35.5mm
Mechanical	Weight	2200g
	Mount	Wall Mount, Desktop
Environment	Operating Temperature	-20~+60℃*
	Storage Temperature	-20~+70℃

Available AI Algorithm in AI BOX

SN	AI Algorithm Name	Application Scenarios
1	Smoke and Fire detection	Building/park, base station computer room, production safety, gas station, bright kitchen stove, smart construction site
2	Mask wearing detection	Building/Park, Smart Retail, Bright Cooker, Community
3	Helmet wearing detection	Inspection, production safety, smart construction site
4	Off-the-job detection	Building/park, base station computer room, smart retail, power inspection, production safety, gas station, smart construction site
5	Zone intrusion detection	Building/park, base station computer room, production safety, gas station, smart construction site
6	People Counting detection	Building/Park, Smart Retail, Community
7	Cigarette/smoking detection;	Inspection, production safety, smart construction site
8	Phone call detection;	Inspection, production safety, smart construction site
9	Reflective vests detection	Inspection, production safety, smart construction site



Application 3: Video AI Application Based On 5G AI IP Camera



AI Application Cases:

- Face Recognition
- PPE Detection
- Mask Detection
- Fence Intrusion Detection
-

■ Pros

- **Low uplink bandwidth consumption** due to video streaming terminated by embedded AI module in camera
- **Low latency video AI processing** due to embedded AI module in camera without any transmission latency
- **Fixed IP address not required** for 5G SIM in camera due to camera auto connecting management platform

■ Cons

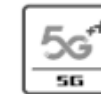
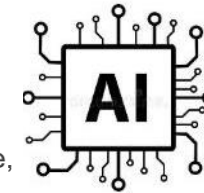
- Each new AI algorithm need camera AI platform to do transformation, not as quick as dedicated AI BOX

5G AI IP Camera Specification (XTEE51516)



KEY FEATURES

- ❖ **Built-in AI Module**, the IP camera has the AI processing capability of 2 TOPS, compatible with mainstream AI algorithm model and platform.
- ❖ **H.265**, optimized in bit rate, bandwidth and storage usage, 50% less than those of H.264.
- ❖ **Super WDR**, up to 140dB wide dynamic range to ensure all the bright and dark areas are well presented.
- ❖ **16X AF Lens**, keeping clarity and focus on the targeted objects rapidly and delivering high-quality images
- ❖ **5G/4G Cellular Network**, providing long distances and low latency HD video wirelessly using industrial grade, 5G/4G module.



Model	XTEE51516 (16X Lens)
CAMERA	
Image Sensor	1/2.8" Progressive Scan CMOS
Resolution	5MP
Min. Illumination	Color: 0.002Lux@F1.2 B/W: 0Lux with IR on
WDR	Super WDR up to 140dB
Shutter Time	1/100000s~1/5s
IR Distance	150m
Day & Night	ICR Filter Auto Switch
Lens	16X AF Motorized Lens 5.85~93.6mm @F1.8~F3.9
Field of View	H55.4°~H3.55° D62.6°~D4.05° V31.6°~V2°

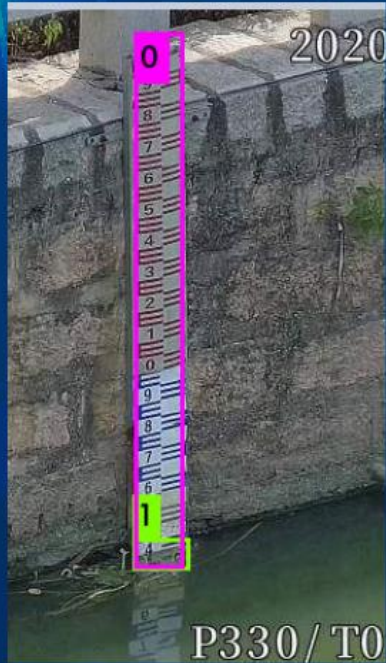
CELLULAR	
Standard	5G NR, LTE FDD, LTE TDD, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE
Bandwidth	5G NR: Downstream rate 2.5Gbps, uplink rate 350Mbps FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps
Transmit Power	<23dBm
Sensitivity	<-97dBm
VIDEO	
Max. Image Resolution	2560x1920
Primary Stream	30fps@(2560×1920, 1280×960,1280×720, 704x576)
Secondary Stream	30fps@(704x576, 640×480, 640×360, 352x288, 320x240, 320x192, 320x176)
Teriary Stream	30fps@(1920×1080, 1280×720, 704×576, 640×480, 640×360, 320×240, 320x192, 320x176)
Video Compression	H.265(HEVC)/H.264/MJPEG
Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)
Image Setting	Brightness/Contrast/Saturation/Sharpness

5G AI Camera Available Case1: Water Gauge Reading

AI intelligent water level monitoring system using the image recognition technology to identify the scale line and digital recognition, automatic calculation of water level value. When the water level reaches the set threshold, the real-time alarm will be sent to the platform and control center. To help flood control and emergency departments to monitor the water situation of urban reservoirs and river channels in Uninhabited areas in real-time.

Cases:

1. Urban Reservoir Water Level Monitoring



Remote visual monitoring and automatic reading of water levels can help urban management and flood control and emergency departments to grasp the waterlogging situation of the whole city in real-time and dispatch drainage in time.

2. Monitoring River Water Level at Uninhabited Areas



Because of the problems such as untimely manual reading, manpower consumption, and harsh environment in uninhabited areas, the scheme can realize automatic and real-time reading of water level with high precision, reduce manpower cost, timely understand the river condition, and effectively avoid the loss caused by flood disaster.

5G AI Camera Available Case 2: Vehicle Model Recognition

Vehicle model AI recognition, using 5G IP camera to capture the images of running vehicles and digitized, then the features extracted from image segmentation are matched with the vehicle models built in the model library, to realize car, truck, motorcycle, electric bicycle, and other vehicle models' recognition. Provide related technical support for urban traffic and intelligent community management.

Cases:

1. Identification of Road Vehicle



In the industrial park or on a specific road, the camera can accurately detect the passing vehicles on the road in real-time through AI technology and notify relevant personnel to conduct corresponding supervision and monitoring actions when it finds trucks and dangerous goods transport vehicles that are prohibited from entering or need special attention.

2. Elevator Electric Bicycle Monitoring



Based on artificial intelligence vision analysis technology, automatic recognition of video images in the elevator whether there is electric bicycle. If the IP camera detect the electric bicycle in the elevator, it will show the alarm in the picture, inform the relevant property personnel, to effectively prevent electric bicycle in the elevator room fire and other safety hazards.

5G AI Camera Available Case 3: Vehicle License Plate Recognition

AI vehicle license plate recognition, using the dynamic video or static image of the vehicle license plate number, license plate color automatic recognition technology. Through the image collection and processing, complete the vehicle license plate automatic recognition. Can automatically extract the vehicle license plate image from vehicle image or video sequence shot by the IP camera, get the unique license plate number of each car and complete the vehicle license plate recognition process. To achieve traffic flow control index measurement, vehicle positioning, prevent car theft, highway toll station & parking area access, and other applications. Help traffic safety and urban security to achieve automated management.

Cases:

Combined with Traffic Violations to Capture Vehicle License Plate Recognition



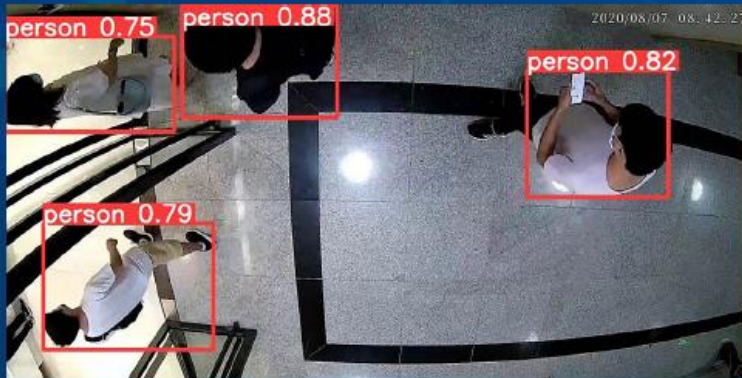
Vehicle license plate recognition AI technology combined with illegal punishment related equipment can be used for crossing, when vehicles cross the yellow light, red not comity pedestrian, such as roadside parking violation behavior, through the license plate recognition AI technology, and identify accurately capture peccancy vehicles license plate number, the violation of the vehicle's license plate number and pictures through the Four-Faith 5G/4G IP camera, Wireless upload to the relevant platform of traffic police, notify law enforcement personnel to deal with illegal vehicles.

5G AI Camera Available Case 4: Humanoid Identification System

AI humanoid recognition can capture the video images of moving humanoids through IP cameras and doing digitally process to realize the humanoid recognition function. This function has been widely used in restricted area monitoring, urban traffic management, warehouse, and other related industries.

Cases:

Human Identification Monitoring in the Control Area



Real-time monitoring of the designated area within the surveillance range of the IP camera. When someone appears in the controlled area where people are prohibited to enter, the IP camera can recognize and issue an alarm of illegal intrusion in real-time. Compared with the traditional motion detection and alarm method, which only alarm the picture changes, humanoid recognition can more accurately meet the monitoring needs of managers and reduce the false alarm rate.

More AI Algorithms Can Be Added in AI Camera

SN	The Algorithm Name	Application Scenarios
1	Smoke and Fire detection	Building/park, base station computer room, production safety, gas station, bright kitchen stove, smart construction site
2	Mask wearing detection	Building/Park, Smart Retail, Bright Cooker, Community
3	Helmet wearing detection	Inspection, production safety, smart construction site
4	Off-the-job detection	Building/park, base station computer room, smart retail, power inspection, production safety, gas station, smart construction site
5	Zone intrusion detection	Building/park, base station computer room, production safety, gas station, smart construction site
6	People Counting detection	Building/Park, Smart Retail, Community
7	Cigarette/smoking detection;	Inspection, production safety, smart construction site
8	Phone call detection;	Inspection, production safety, smart construction site
9	Reflective vests detection	Inspection, production safety, smart construction site

New Algorithms Model
after Customized Training

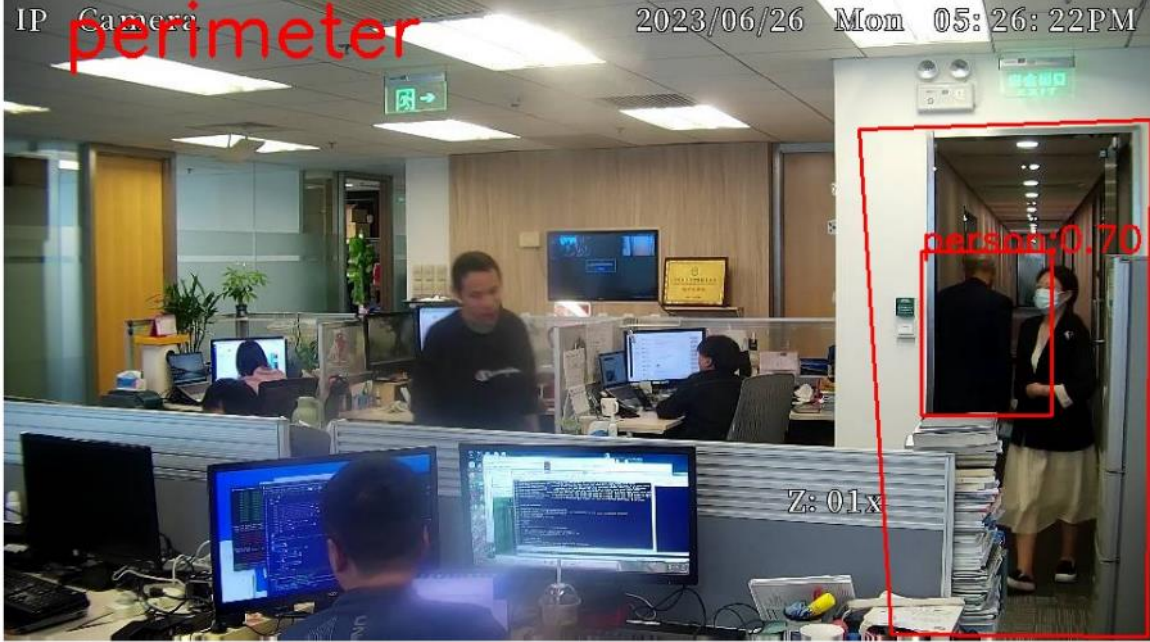
Transformed to Fit AI
Platform of 5G IP Camera



AI Event Alarms and Record Auto Sent to Camera Management Platform

Alarm Management

AI Example for Fence Intrusion Detection

Delete All			Please select ▼		Please Select ▼
Alarm Number	Task Number	Task name	Alarm Type	Alarm Time	Operation
SAAI2023062617262566fc76faa8	T018935	XT Office	A00001	2023-06-26 17:26:22	Details Delete
SAAI202306261726221c97dd2a4b		2023/06/26 Mon 05:26:22PM		2023-06-26 17:26:22	Details Delete
SAAI20230626172617aa68bff7bb				2023-06-26 17:26:15	Details Delete
SAAI202306261726127e5bb0c978				2023-06-26 17:26:10	Details Delete
SAAI20230626172606397ce80f5f				2023-06-26 17:26:04	Details Delete
SAAI20230626172557f9893a755a				2023-06-26 17:25:54	Details Delete
SAAI202306261725449c0c1c9a10				2023-06-26 17:25:42	Details Delete
SAAI20230626172540140e927c98				2023-06-26 17:25:37	Details Delete
SAAI20230626172316308134d1d6				2023-06-26 17:23:13	Details Delete
SAAI202306261723072f208d5561	T018935	XT Office	A00001	2023-06-26 17:23:05	Details Delete

5G AI Camera Managed by Cloud Management Platform



Preview Playback Configuration admin Logo

MediaImageEvent >StorageNetworkApplicationStatus >System >

Port SettingsRouteIP AddressHTTPSSMTPCloudFTP/SFTP4G/5GGBT SettingsWi-FiOnline ReportingRTMPRTP

Enable:

☒

Current Connection Status:

Connected

Cloud Server Type:

AIoT Cloud

Cloud Server Address:

125.77.202.162

Cloud Server Port: (1-65535)

1171

Device Registration ID:

54d0b4c01655

Save

Centralized Cloud Camera Management Platform for AI Event Alarms

Main Page

Real-Time Monitoring

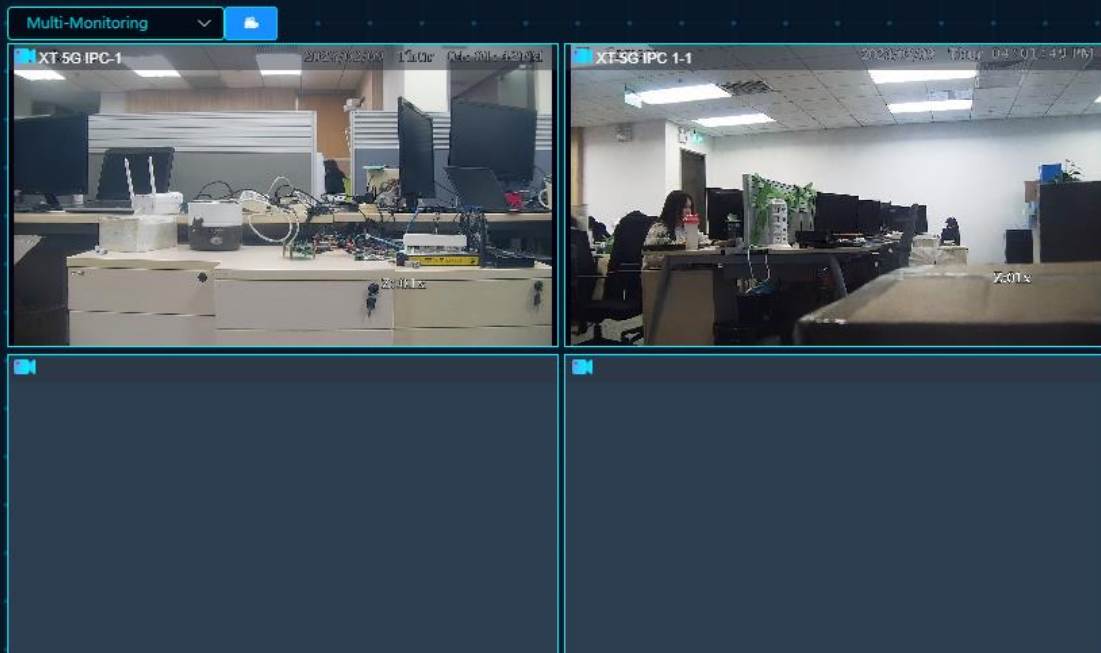
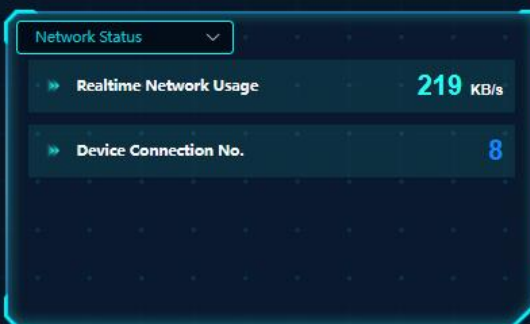
Playback

Device Management

Alarm Display

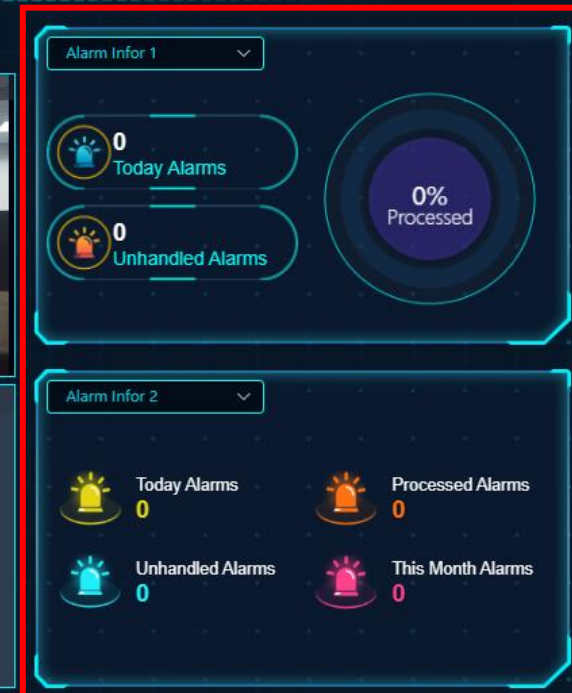
Statistic Report

Intelligent IoT Monitoring Screen



Device Status List

Type	Name	Organization	Video
IPC	XT 5G IPC	shxdbdt	
IPC	XT-5G IPC 1	shxdbdt	



Application 4: All-in-one 5G AI IP Camera for Quick Demo and Deployment



5G IP Camera



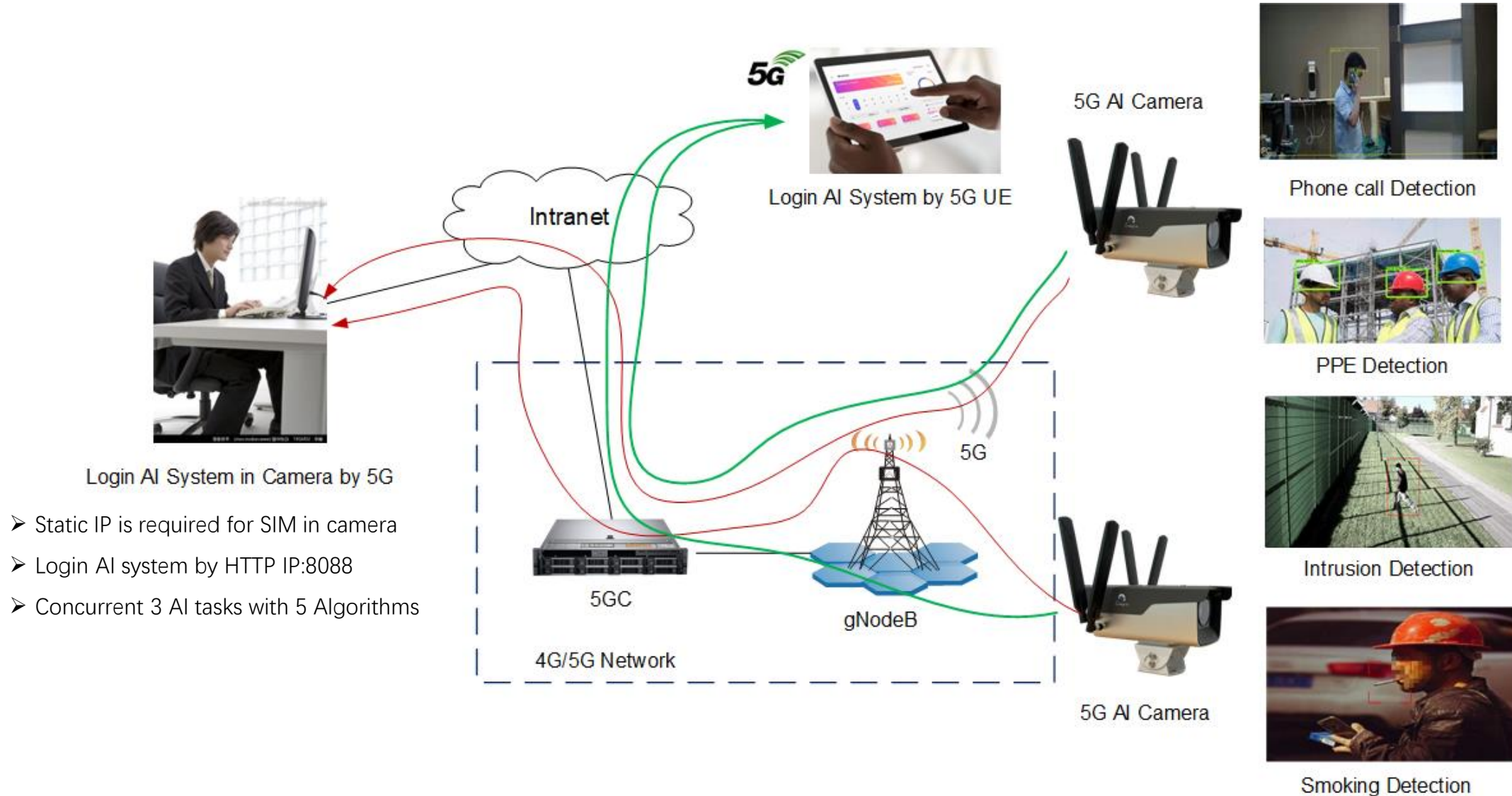
AI BOX



5G AI IP Camera (15 TOPS)

Qualcomm SDX 55/62 chipset for 4G/5G
Qualcomm Snapdragon QCS8250 for AI
Built-in 9 AI Algorithm models

Application 4: All-in-one 5G AI IP Camera Network Topology



All-in one 5G AI IP Camera Specification (XTEE51216)

Key Features

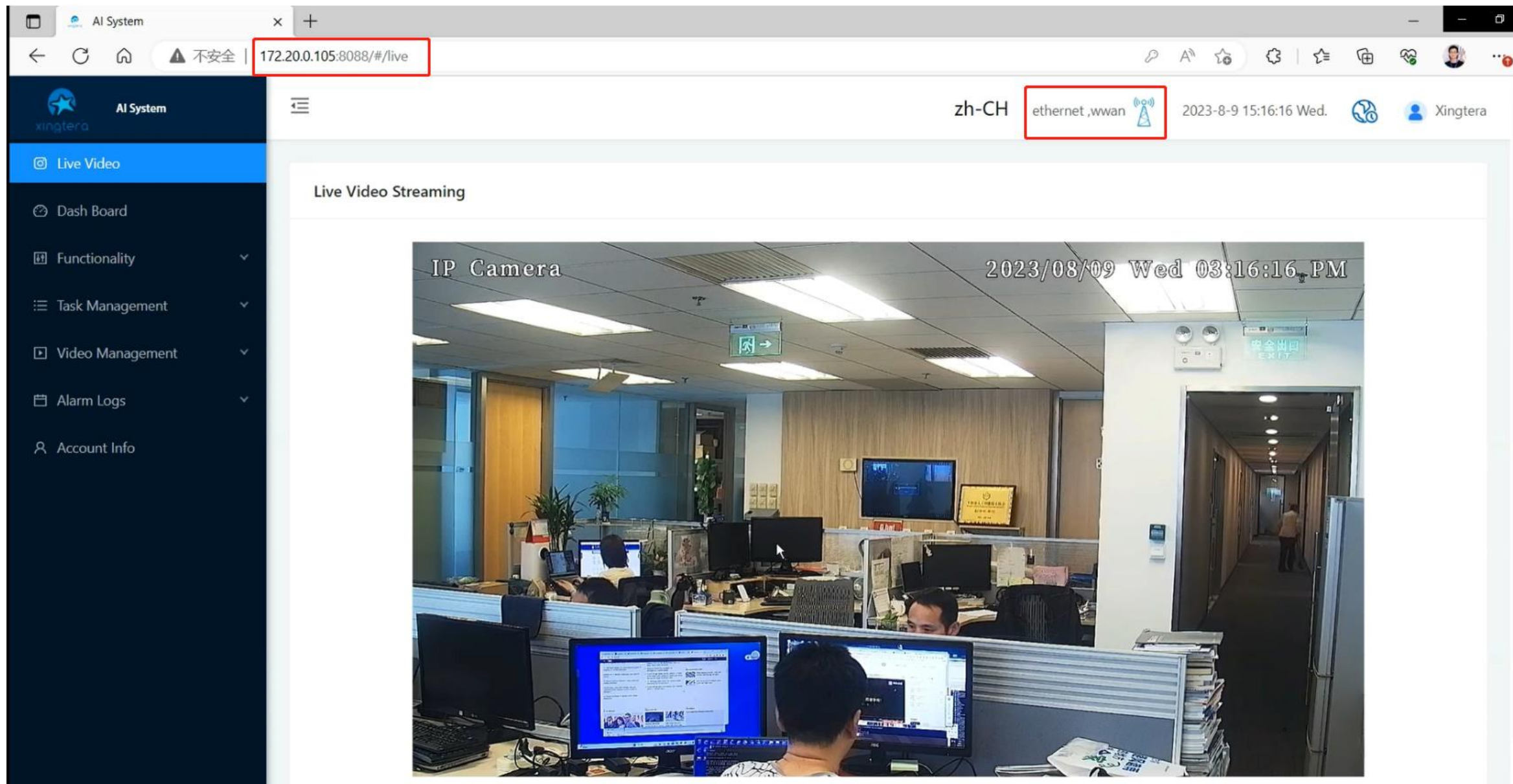
- ✧ **Built-in AI Module**, the IP camera has the AI processing capability of 15 TOPS based on Qualcomm Snapdragon QCS8250 processor, compatible with mainstream AI algorithm model and platform.
- ✧ **H.265**, optimized in bit rate, bandwidth and storage usage, 50% less than those of H.264.
- ✧ **Super WDR**, up to 140dB wide dynamic range to ensure all the bright and dark areas are well presented.
- ✧ **16X AF Lens**, keeping clarity and focus on the targeted objects rapidly and delivering high-quality images
- ✧ **5G/4G Cellular Network**, providing long distances and low latency HD video wirelessly using industrial grade, 5G/4G module based on Qualcomm Snapdragon X55 or X62 chipset.




Built-in default AI Algorithms


SN	AI Algorithm Name	Application Scenarios
1	Face recognition	Building/park, base station computer room, production safety, gas station, bright kitchen stove, smart construction site
2	Mask wearing detection	Building/Park, Smart Retail, Bright Cooker, Community
3	Helmet wearing detection	Inspection, production safety, smart construction site
4	Off-the-job detection	Building/park, base station computer room, smart retail, power inspection, production safety, gas station, smart construction site
5	Zone intrusion detection	Building/park, base station computer room, production safety, gas station, smart construction site
6	People Counting detection	Building/Park, Smart Retail, Community
7	Cigarette/smoking detection;	Inspection, production safety, smart construction site
8	Phone call detection;	Inspection, production safety, smart construction site
9	Reflective vests detection	Inspection, production safety, smart construction site


Remote Login AI System in Camera by 4G/5G





Enable Concurrent 3 AI Tasks with 5 Algorithms

**AI System**


 Live Video


 Dash Board


 Functionality ▾





 Task Management ▴

Video Detection Tasks

 Video Management ▾

 Alarm Logs ▾

 Account Info

 zh-CH ethernet,wwan  2023-8-16 17:28:17 Wed.   Xingtera

Task Management

Add Restart **Online Status**

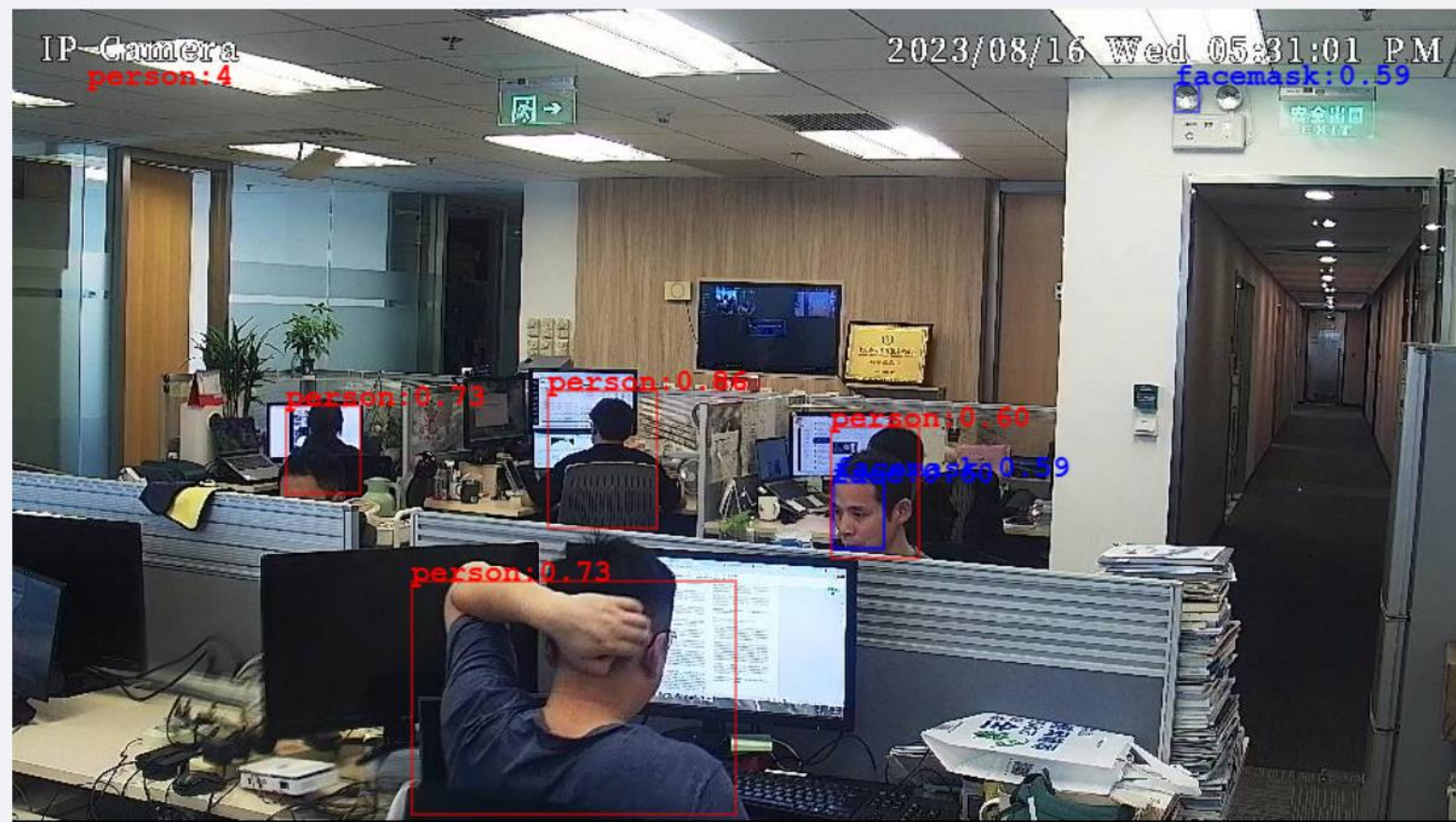
Please select ▾ Please select ▾

Task Number	Task name	Video source	Model	Skip frame	Status	Running Status	Algorithm function	Create Time	Operation
T280359	facemask &count	local_camera(C604952)	facemask ,person	0	Startup	running ..	Number Count,Face Mask Detection	2023-07-18 15:00	<div>Details Algorithm Delete</div>
T109574	call	local_camera(C604952)	pose,phone	0	Startup	running ..	Phoning	2023-07-18 14:00	<div>Details Algorithm Delete</div>
T054918	helmet&re clothes	local_camera(C604952)	helmet,reflective_others	0	Startup	running ..	Reflective Vest,Safety Helmet	2023-04-06 17:00	<div>Details Algorithm Delete</div>

10/page ▾ Total 3 < **1** > Go to 1

Check Realtime AI Detection Video Streaming

- Live Video
- Dash Board
- Functionality
- Task Management
- Video Management
- Detection Streaming**
- Alarm Logs
- Account Info



Video List

facema...



call



helmet...



Check Video AI Analysis Results in Alarm Logs



zh-CH

ethernet ,wwan



2023-8-16 17:37:55 Wed.



Xingtera

Alarm Management


Delete All

Please select


Please Select


Alarm Number	Task Number	Task name	Alarm Type	Alarm Time	Operation
SAAI202308161737059267bf558e	T054918	helmet& re clothes	A00005	2023-08-16 17:36:47	Details Delete
SAAI2023081617341005c035be2f	T054918	helmet& re clothes	A00006	2023-08-16 17:33:52	Details Delete
SAAI20230816173404adb5d9c3da	T280359	facemask&count	A00017	2023-08-16 17:33:46	Details Delete
SAAI20230816173336219e637b60	T109574	call	A00009	2023-08-16 17:33:12	Details Delete
SAAI202308161732527d7a78d4d1	T280359	facemask&count	A00016	2023-08-16 17:32:34	Details Delete
SAAI2023081617320403a904ecfd	T054918	helmet& re clothes	A00005	2023-08-16 17:31:47	Details Delete
SAAI2023081617291050db6f9aab	T054918	helmet& re clothes	A00006	2023-08-16 17:28:52	Details Delete


Click Details to Review Video AI Analysis Results in Alarm Logs


 AI System


zh-CH ethernet ,wwan 2023-8-16 17:42:05 Wed. Xingtera


 Live Video


 Dash Board


 Functionality

 Task Management

 Video Management

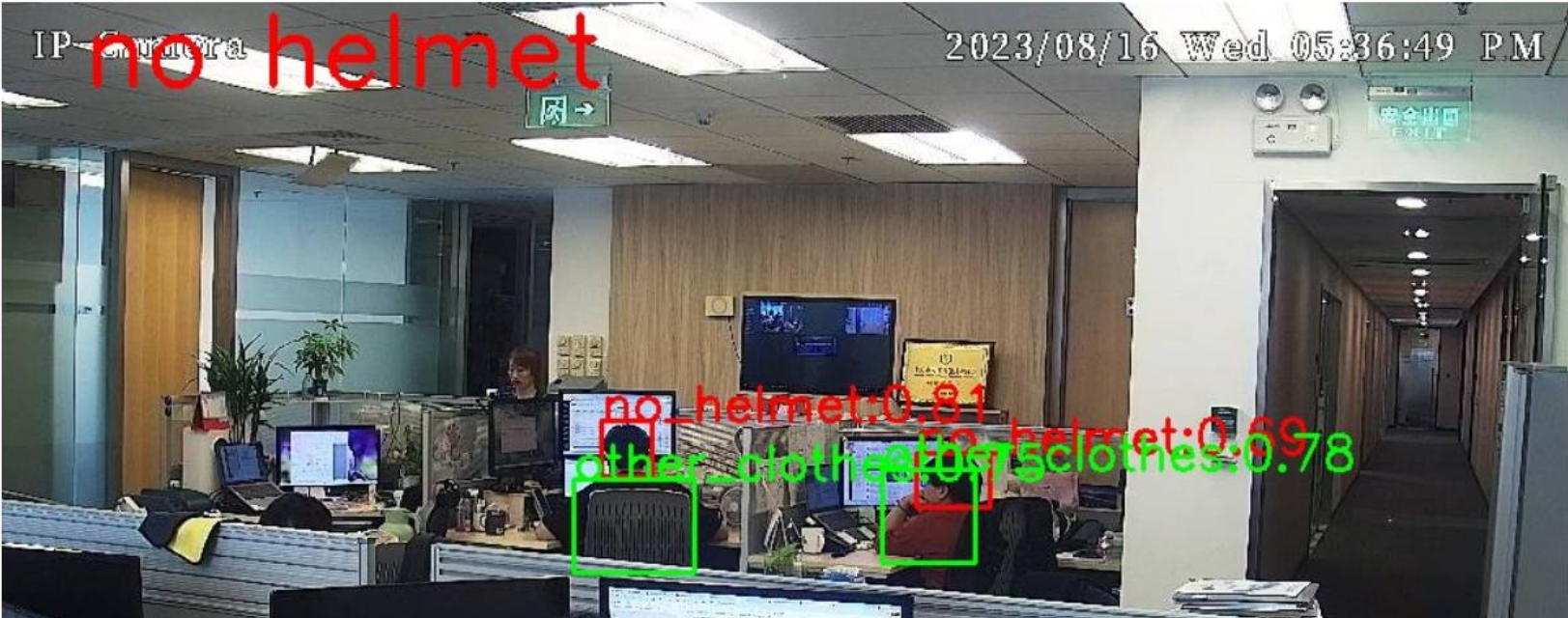
 Alarm Logs

 Log List

 Account Info

Alarm Info

View Picture



IP Camera 2023/08/16 Wed 05:36:49 PM

no helmet

no_helmet:0.81 other_clothes:0.78

no helmet:0.698

Delete

Delete

Delete

Delete

Delete

Delete

Alarm Info

View Picture

IP-Camera 2023/08/16 Wed 05:33:48 PM

no mask

person:0.75 person:0.82 person:0.80 person:0.57 person:0.50

The screenshot displays the Xingtera AI System interface. On the left is a dark sidebar with navigation options: Live Video, Dash Board, Functionality, Task Management, Video Management, Alarm Logs, Log List (highlighted), and Account Info. The main area shows a live video feed from an IP camera, timestamped 2023/08/16 Wed 05:33:48 PM. The video shows an office interior with several people working at desks. Green bounding boxes are drawn around five individuals, each labeled with 'person:' followed by a confidence score: 0.75, 0.82, 0.80, 0.57, and 0.50. A large red text overlay 'no mask' is positioned in the upper left of the video frame. A small tooltip '截图(Alt + A)' is visible near the person with a score of 0.57. On the right side of the interface, there is a vertical list of red 'Delete' buttons.

Click Details to Review Video AI Analysis Results in Alarm Logs

AI System

zh-CH ethernet , wwan 2023-8-16 17:46:56 Wed. Xingtera

- Live Video
- Dash Board
- Functionality
- Task Management
- Video Management
- Alarm Logs
- Log List
- Account Info

Alarm Info

View Picture

2023/08/16 Wed 05:32:36 P.M.

person:5

person:0.67

person:0.80

person:0.57

person:0.64

perso

Delete

Delete

Delete

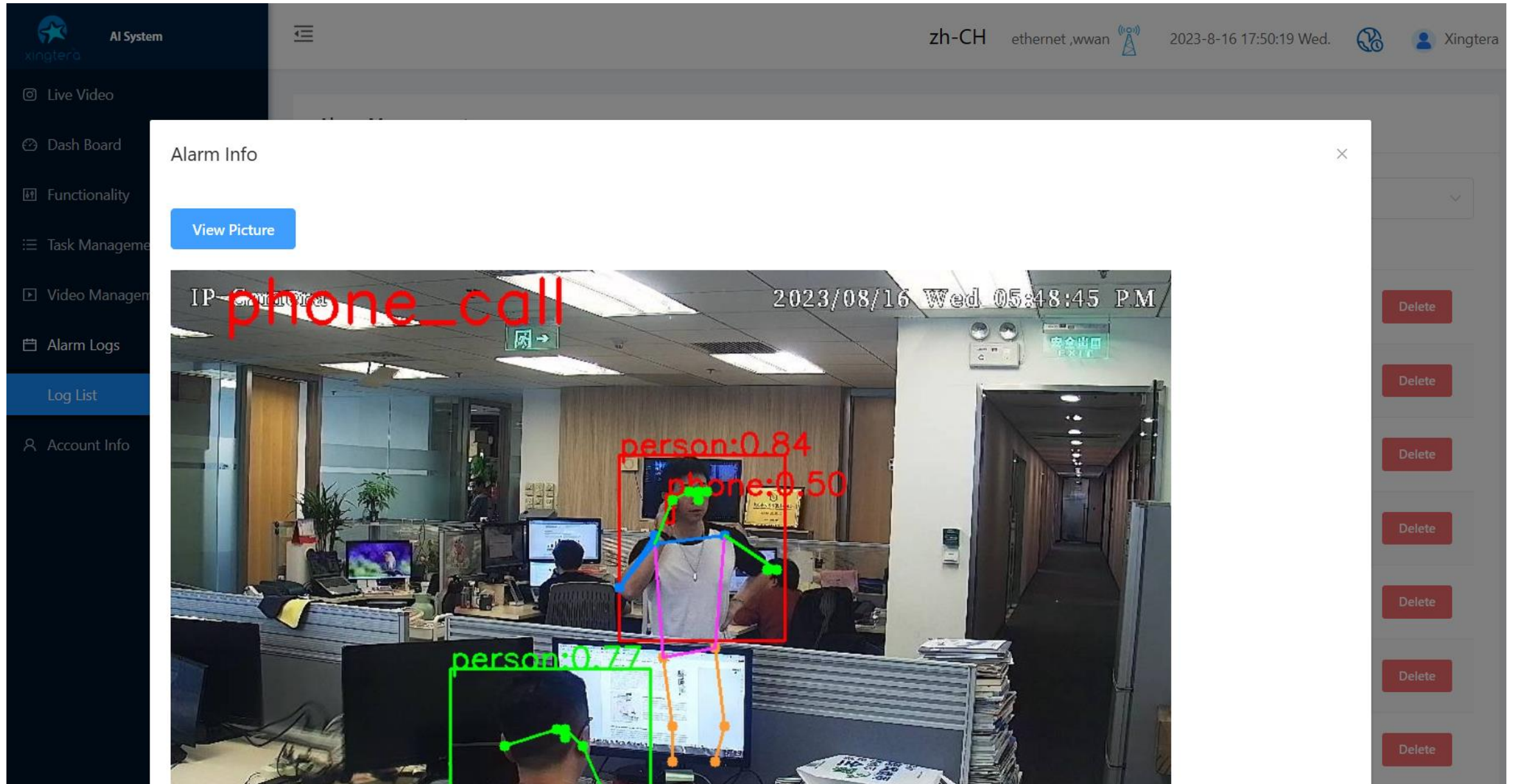
Delete

Delete

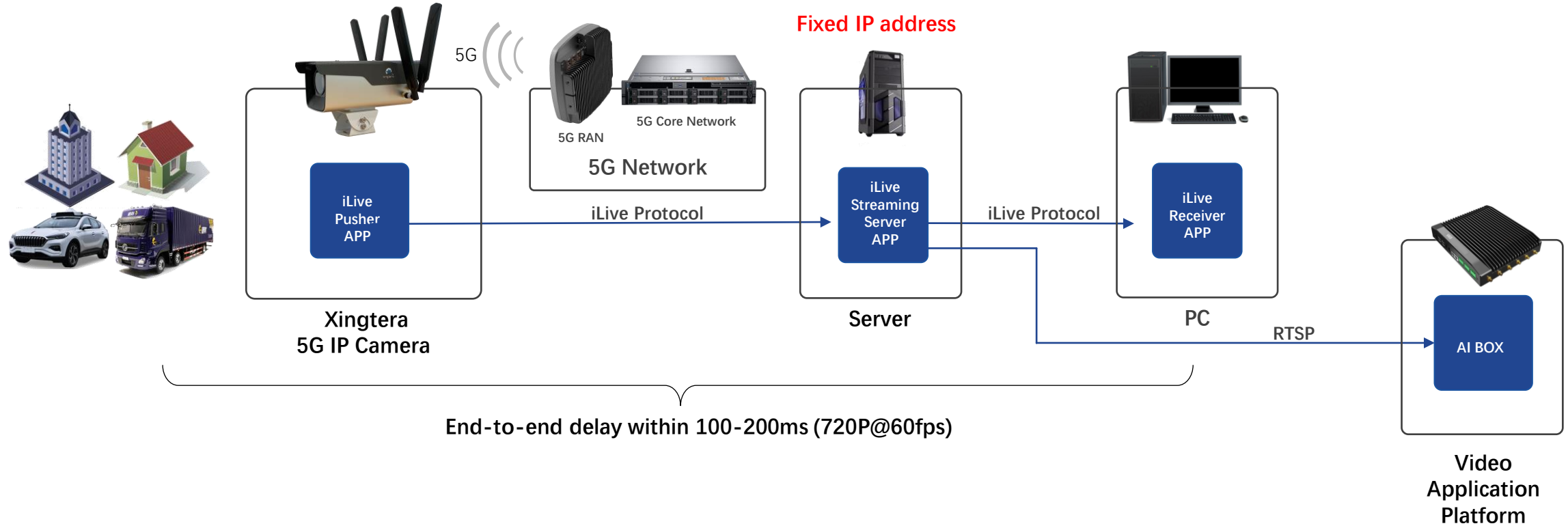
Delete

Delete

Click Details to Review Video AI Analysis Results in Alarm Logs

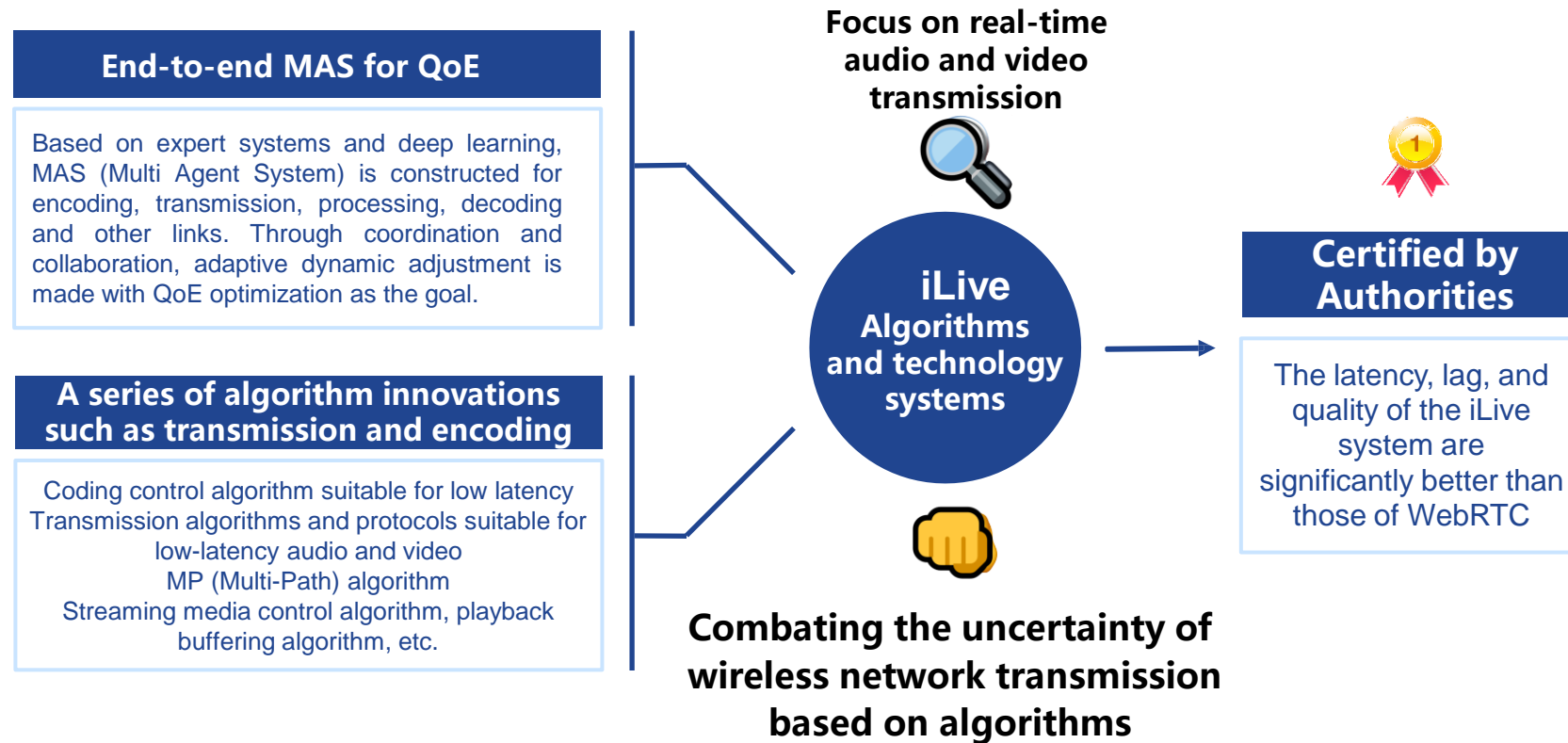


Application 5: Low Latency 5G IP Camera Solution



Unique innovative iLive protocol can greatly improve real time video transmission end to end latency quality from common 500-600ms to 100-200ms, related factors including video encoding, video buffer, video transmission from pusher to receiver and video decoding

Low Latency iLive Protocol Architecture



XTEE50216/51516 Available for Built-in Low Latency iLive APP



[Preview](#) [Playback](#) [Configuration](#) admin [Logout](#)

[Media](#)
[Image](#)
[Event](#) >
[Storage](#)
[Network](#)
[Application](#)
[Status](#) >
[System](#) >

[Port Settings](#) [IP Address](#) [HTTPS](#) [SMTP](#) [Cloud](#) [FTP/SFTP](#) [4G/5G](#) [GBT Settings](#) [Wi-Fi](#)
[Online Reporting](#) [RTMP](#) [RTP](#) [Route](#) [Low Delay](#)

Enable:

☐

Current Connection Status:

Disconnect

Server IP:

Server Port:

Topology Group Name:

Topology Number:

Configuration Name:

Stream ID:

LID:

Export activation file:

[Export](#)

Import License file:

[Select](#) [Upload](#)

[Save](#)

Let's Win Together!

Xingtera Inc.

