

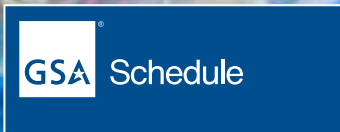


3S SYSTEM TECH. INC.



2024

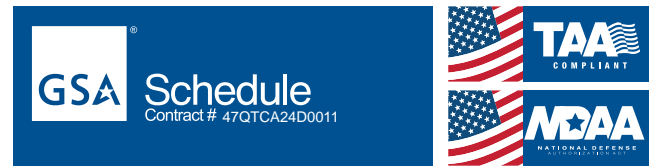
# VIDEO SURVEILLANCE PRODUCTS



**Superior Performance from Taiwan**

Leadership manufacturing advantages & customized service !





# 3S SYSTEM TECH. INC. PIONEERS IN GLOBAL SECURITY SURVEILLANCE

As a leading provider of physical security solutions, we have crafted success stories worldwide.

With over 17 years dedication in design and research and development (R&D) experiences, we provide exceptional smart security surveillance products, cutting-edge AI intelligent video analysis, and advanced smart video management software and systems. Our products hold certifications from international institutions, and our commitment to a high-quality and stable supply chain ensures reliability. All 3S colleagues are committed to upholding product quality and prioritizing our clients. We provide 24-hour services to meet the diverse demands and expectations of customers worldwide.



# 3S ACHIEVEMENT

## AWARD of GSA

An honorable recognition as a trusted partner.



## A Trusted Partner of the U.S. Federal Government!

Contract Number : 47QTCA24D0011



The General Services Administration (GSA) achieves the goal of assisting federal government institutions in purchasing products and services. GSA Contracts comply with all applicable procurement regulations. We are honored to be one of the qualified suppliers listed on GSA eLibrary. ([www.gsaelibrary.gsa.gov](http://www.gsaelibrary.gsa.gov))

Operating with excellence, 3S System Technology Inc. ensures that all manufactured products fully comply with the requirements of TAA and NDAA. Embracing the belief in "Made in Taiwan," our products adhere to ISO 9001, ISO 27001, and IoT certification standards, eliminating any concerns about product quality and information security for our customers. We uphold the highest standards in supply chain quality, meeting the needs and expectations of both customers and government agencies.

\*\*\*For a comprehensive view of our high-quality products, visit GSA Advantage, the federal procurement service website ([www.gsaadvantage.gov](http://www.gsaadvantage.gov)).





# WHY 3S ?

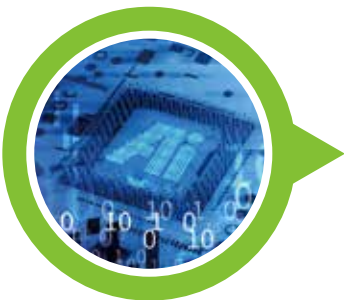
## LEADING IN MANUFACTURING ADVANCED TECHNOLOGY AND CUSTOMIZED SERVICE



### 01. Trustworthy Collaborative Partnerships

We prioritize the needs of end customers and partners by focusing on every project detail. Through our sincere efforts and dedicated services, we have earned the trust of customers and partners, establishing stronger and more meaningful collaborations.

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### 02. Outstanding Core Technology

The exceptional R&D team of 3S has developed AI intelligent video analysis technology as well as excellent software and hardware to meet all kinds of customers' needs.

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### 03. Reliable Manufacturing Excellences

Leveraging advanced equipment, standardized processes, extensive manufacturing experience, and comprehensive supply chains, 3S is well-equipped to provide customized products and software solutions to our customers.

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### 04. Patents and International Certifications

3S products have received numerous certifications from domestic and international institutions, including new patent certification, ISO 9001 : 2015 quality management system, ISO IEC 27001 : 2013 information security management system, and IoT cyber security certificate in Taiwan, etc.

## Achieve Our Goals, Shine Our Partners !



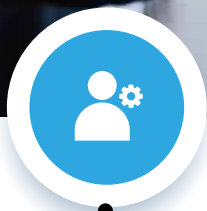
01

# TRUSTWORTHY COLLABORATIVE PARTNERSHIPS

Integrity and honesty are the core of 3S business philosophy. We prioritize the needs of end customers and partners worldwide. 3S is dedicated to offering intelligent security surveillance products, diverse system integration, and an automatic management platform with a range of robust functions.

Our approach goes beyond merely addressing customer needs; we guarantee a professional commitment to every project, focusing on details from inception to execution. This meticulous attention is our key to earning trust and favor from our valued partners.

We continuously fulfill customers' expectations and provide professional services in the future. In addition, we also expect to establish long-term cooperation with partners in various areas and make good relationships with our clients around the world.



**CLIENTS**

We build security & intuitive GUI.



**PARTNERS**

We respect our partners.



**3S**

We provide high quality & affordable price.



**Create a perfect win-win-win solution for clients, partners, and 3S.**

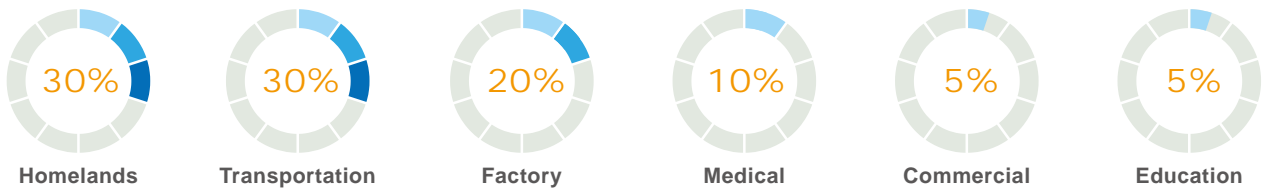
# Our Successful Cases

## Based in Taiwan, Global Presence !

Our mission is to deliver a diverse range of video surveillance devices and comprehensive physical security solutions. We are dedicated to ongoing pursuits in software design, system integration planning, and innovative high-tech solutions to meet customer expectations.



## Over 100,000 Users Globally



### Homelands

- Military Camp
- Border Protection
- Police Unit
- Public Institutions



### Transportation

- Railway / MRT
- Road
- Parking
- Airport / Port
- City Surveillance
- Fleet Safety



### Factory

- Semiconductor
- Oil & Gas
- Warehouse & Logistics
- Manufacturing



### Medical

- Medical Institutions
- Long-Term Care Institution



### Commercial

- Resorts
- Casinos & Gaming
- Bank & Finance Institutions
- Retail & Department Store
- Restaurant & Bar
- Stadium & Museum
- Various Facilities



### Education

- Campus



# 02 OUTSTANDING CORE TECHNOLOGY

As a pioneer of global image-processing technology, 3S has world-leading AI intelligent video analysis technology, especially excellent image recognition and detection. We also offer a smart management platform to integrate the diverse system.



### Intelligent Analysis Technology

AI Analysis Technology Expert



### Original Design Technology

Customerized Product Designer



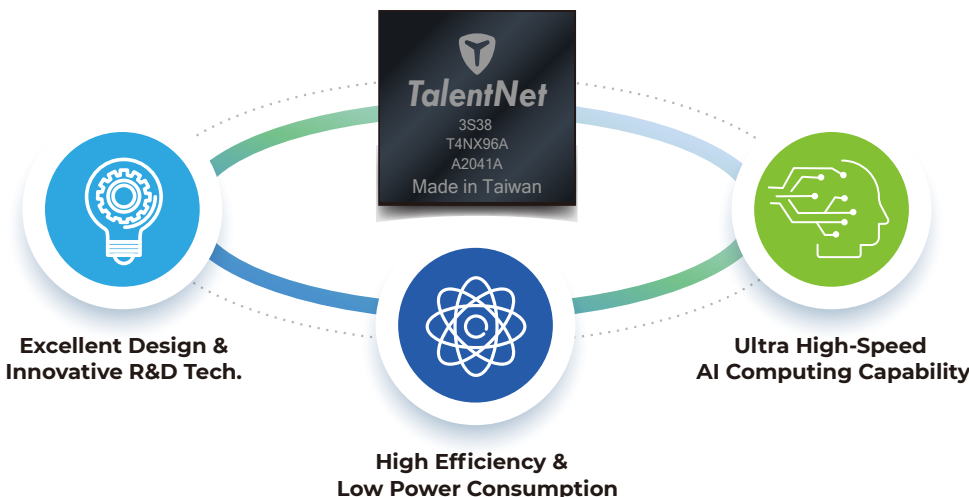
### Professional Manufacturing Technology

High-tech. Product Manufacturer

## THE MOST POWERFUL CHIPS FROM TAIWAN

### Our self-developed TalentNet chip highlights an innovative architecture designed for accelerated processing

3S network products feature cutting-edge AI SoC chips, a collaborative effort between Taiwan IC Intellectual Property Company and 3S. Leveraging TSMC's advanced fabrication technology, we ensure high computing efficiency and ultra AI processing, to showcase our technological capabilities.





# 03 RELIABLE MANUFACTURING EXCELLENCES

Equipped with the most advanced production equipment, we follow a strict standard production process to manufacture our diverse range of products. We are dedicated to maintaining high-quality assurance and stable production capacity to exceed our customers' expectations.

## 3S Solid Capability

- ✓ High Technology
- ✓ High Quality
- ✓ High Specification



## 3S Production Capacity

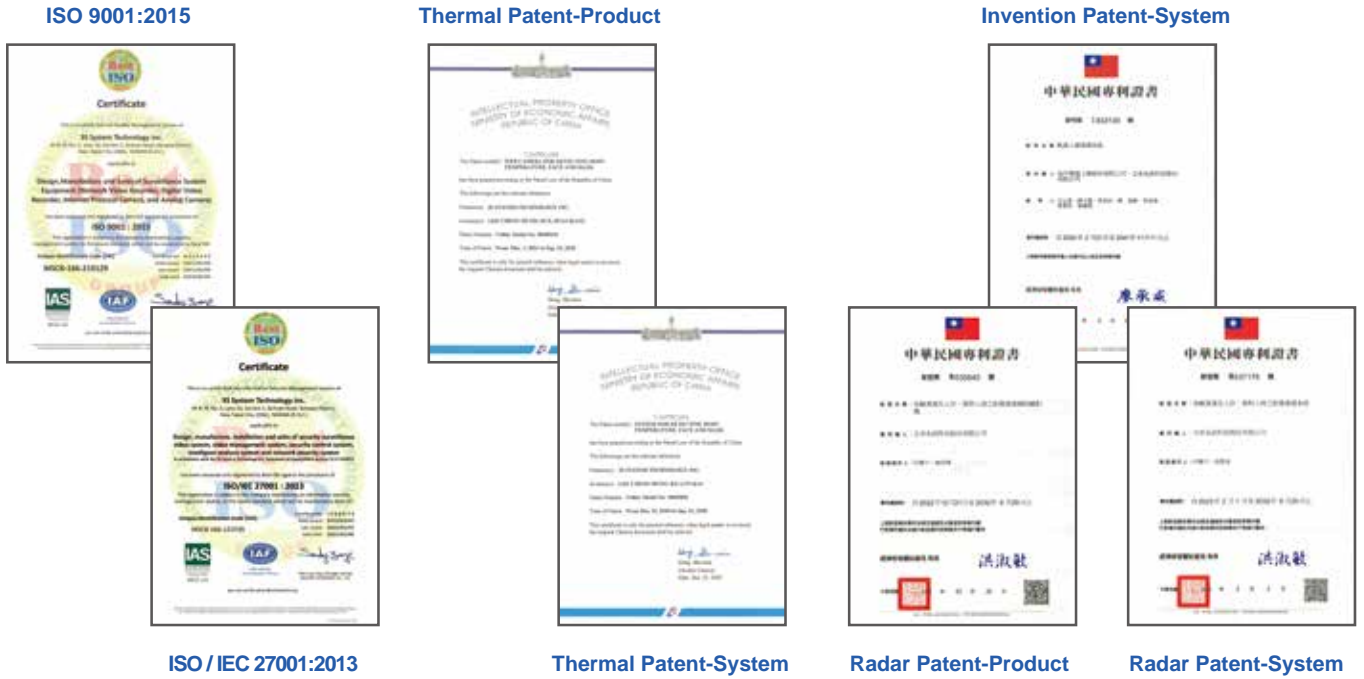
3S supports NDAA compliance across all product lines.

<b>Network Camera</b>	<b>Speed Dome Camera</b>	<b>Video Recorder</b>	<b>Server NVR</b>
60K (Month)	10K (Month)	30K (Month)	1.5K (Month)
Professional Equipment	Standardized Production Process	Excellent Process Efficiency	Best Quality Assurance

# 04

# PATENTS AND INTERNATIONAL CERTIFICATIONS

Our outstanding smart security surveillance products and systems have earned numerous certificates from both domestic and international institutions.



## TAIWAN'S IoT CYBERSECURITY CERTIFICATE

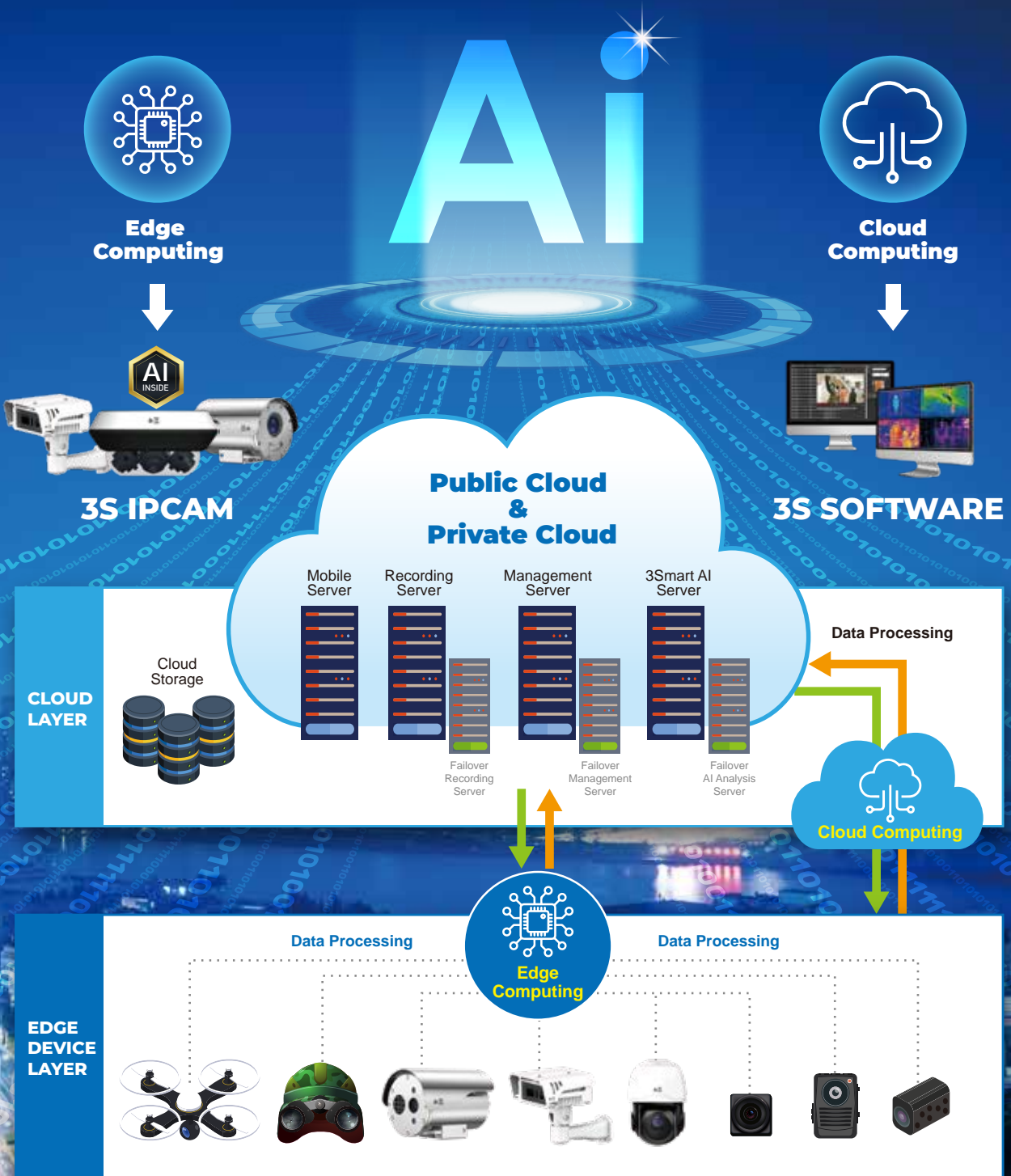
This certificate is based on the level of risk, and the complexity of cybersecurity protection technology. These products with this certificate represent protection information security well, guarding the personal safety and properties even the national safety and properties. Our network cameras align with the security specifications outlined in the Internet of Things (IoT) security testing and verification standards, and design the relevant protection mechanism to prevent cyber threats or attacks.



*Your Best Choice!*



# AI IMAGE RECOGNITION MAKES SURVEILLANCE SMARTER, MORE ACCURATE AND EFFICIENT !





# MORE THAN 28+ AI IMAGE ALGORITHMS !

Human

Object

Vehicle

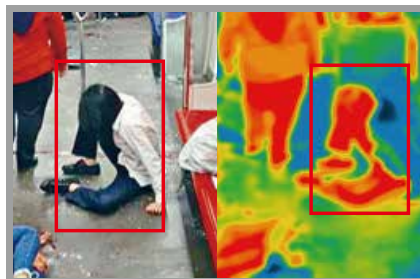
## Revolutionary AI Thermal Recognition Technology



Human Recognition



Human Behavior Recognition



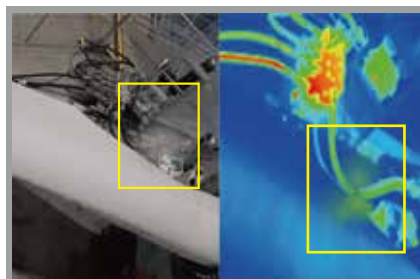
People Intrusion Detection



Environment Fire Detection



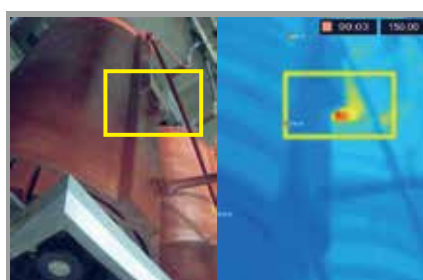
Pipeline Detachment Detection



Leak Detection



Industrial Temp. Recognition



Body Temp. & Mask Recognition

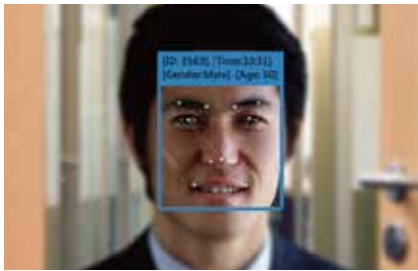


Object Status Detection  
(Abandon Object / Lost Property)



## Optical Image : Human Detection & Recognition

Face Detection & Recognition



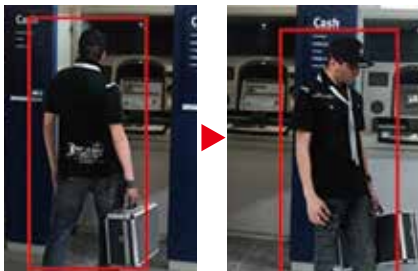
Abnormal Face Detection



Smart Face Search



Human Detection / Loitering Detection



Motion Detection



PTZ Auto Tracking Human



People Counting Analysis



Crowd Density Analysis



Cross Line Detection



## Optical Image : Vehicle Detection & Recognition

License Plate Recognition



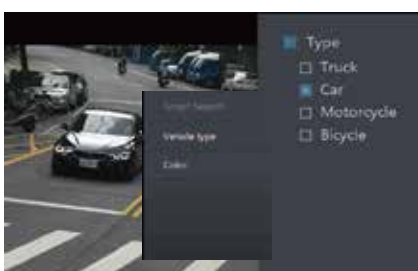
Traffic Jam Detection



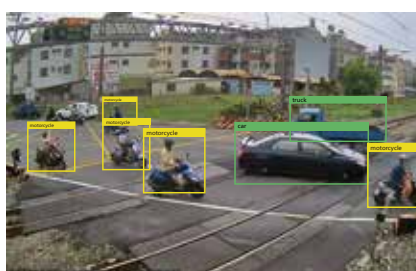
Rail / Road Obstacles Detection



Smart Target Search



Vehicle Detection & Classification



Vehicle Counting







# THERMAL IMAGE FEATURES & APPLICATIONS

## Thermal Image Features



### Unique Thermal Image Technology

Thermal imaging is a non-invasive technique that utilizes infrared technology to detect heat emissions from various objects. This process transforms infrared energy, which is imperceptible to the human eye, into a visible light display.



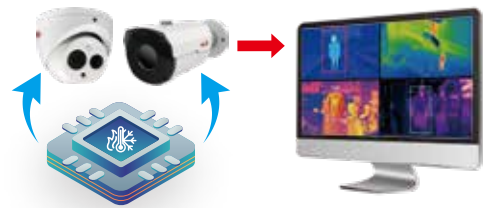
Optical Image

Thermal Image



### Uncooled Microbolometer

Uncooled bispectral and thermal IP cameras work at ambient temperature and are notably more cost-effective compared to their cooled counterparts. They are designed to detect temperature variations as minute as 0.2°C and possess durability suitable for daily use.



### Dual lens and Single lens

The thermal IP camera comes in two types: with dual lenses or with a single lens.

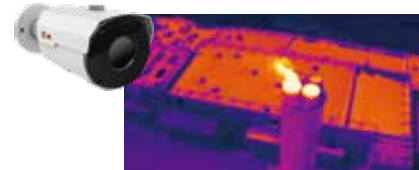
#### Bispectral model with dual lens

Possessing dual-spectrum capability, these cameras can simultaneously capture both optical and thermal images. In low-light conditions where visible light images may lack clarity, thermal imaging reveals the thermal distribution of objects, providing users with a better understanding of the scene.



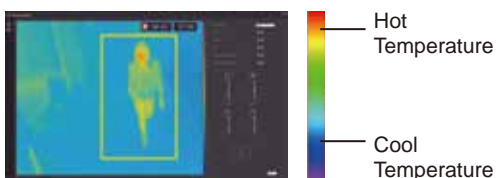
#### Thermal model with single lens

In contrast to dual lenses, a single lens can capture thermal images independently. This design is suitable for specific situations, such as focusing on applications related to thermal distribution or when there's no need for visible light images.



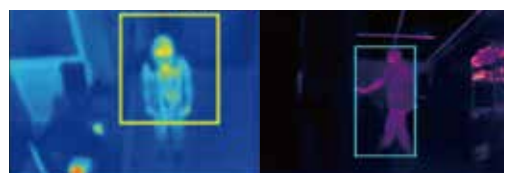
### Visible Temperature Map

Thermal imaging provides a comprehensive temperature map of the surveyed area. Interpretation of thermal images is facilitated by a color palette, where each color corresponds to a specific temperature range. Typically, cooler temperatures are indicated by the color blue, while hotter temperatures are represented by the color red.



### Accurate Detection

Bispectral and thermal IP cameras have long range detection and temperature measurement capabilities, devoid of the necessity for a light source. They excel in providing accurate detection across diverse environments, particularly in harsh conditions or extreme darkness.







### Military Operation

Thermal image technology is widely used in the military. It provides a significant advantage in night combat, primarily by detecting the thermal radiation emitted by targets and converting it into visible images. It can be utilized in daytime, nighttime, low-light, or smoky environments. Additionally, it can be used in oil depots, ammunition storages, military bases, and other high-security zones.



### Secure Perimeter

Thermal cameras play a vital role in perimeter protection by facilitating long-range monitoring of suspicious intruders in the dark. Upon detecting intruders entering predefined areas, the cameras trigger alerts. They can initiate recording or zoom into specific regions, enabling security personnel to assess the situation visually and take prompt and appropriate action.



### Civilian Law Enforcement

Thermal image technology can be applied in various security fields, including anti-theft monitoring, camouflage, and concealed target recognition. In law enforcement, the use of body cameras empowers police officers and security professionals to efficiently track, locate, and apprehend criminals.



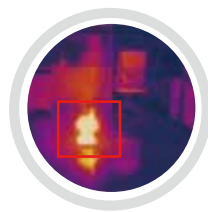
### National Border Security

Thermal image technology plays a crucial role in supporting border management during nighttime and low-light conditions. It can also combine with a radar to information about the direction, distance, and height of targets for effective national border surveillance.



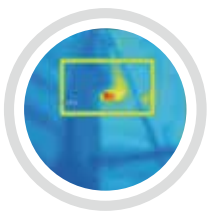
### Human / Behavior Recognition

Thermal image cameras not only accurately identify human forms but can also integrate with motion detection analytics for targeted monitoring. For example, they can detect unexpected movements, such as those from immobile patients or potential falls. In case of abnormalities, timely alerts can be issued, mitigating the risk of severe accidents.



### Detection of Heat Source

In specialized environments, latent fires that are invisible to the naked eye may unexpectedly ignite, posing a challenge for detection. High-sensitivity thermal imaging technology allows real-time monitoring of targets. When temperatures surpass preset limits, it promptly triggers an alarm message, accurately pinpointing the location and scale of the fire.



### Industrial Temperature Recognition

In the industrial sector, thermal cameras with advanced thermal imaging technology provide real-time monitoring of conditions and diagnosing defects while equipment is under operation. By detecting abnormal heat patterns, these cameras identify hotspots, allowing for prompt issue resolution and preventing potential equipment failures.



### Body Temperature & Mask Recognition

In open spaces, thermal cameras can identify changes in body temperature, facilitating early detection of epidemics and providing crucial information for disease diagnosis and health assessment. Additionally, during outbreaks, they can verify mask-wearing, serving as the first line of defense for overall protection.



**Optical Image Processing**



**H.265 Compression Technology**

Reduce bandwidth and storage costs using H.265 compression technology for efficient data transmission.



H.264

H.265 HEVC



**Enhance Image Quality**

3S cameras are capable of achieving extremely high-quality and clear images of capture results in the daytime or dark scenes.



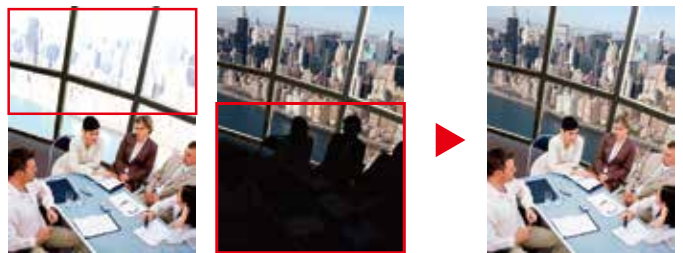
Daytime

Night



**Wide Dynamic Range (WDR)**

The wide dynamic range (WDR) function allows for clear image capture, even in challenging lighting conditions such as strong light or backlight environments.



WDR OFF

WDR ON



**High Light Compensation (HLC)**

High Light Compensation (HLC) is a feature designed to prevent camera blinding and improve overall image quality. It is particularly effective in enhancing the readability of license plates.



Normal

HLC ON



**Digital Image Stabilization (DIS)**

Digital image stabilization technology can reduce the motion blur caused by wind or vibration to ensure the image quality.



DIS OFF

DIS ON



### 3D Digital Noise Reduction (3DNR)

In low-light conditions, external environmental disturbances can easily generate noise. Enhance noise reduction technology using 3DNR to minimize motion blur and image artifacts.



DNR OFF

DNR ON



### Defog

The defog algorithm can automatically detect various levels of fog in the scene during adverse weather conditions (such as dust storms, rain, or fog) or when the lens is dirty. It digitally filters out the fog to enhance image clarity and restoration.



Defog OFF

Defog ON



### Lens Distortion Correction (LDC)

The Lens Distortion Correction (LDC) algorithm effectively improves the anamorphose, distortion, deformation, and blur present in the original image due to the physical characteristics of fisheye lenses.



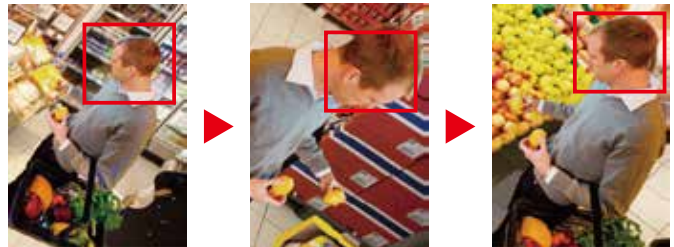
LDC OFF

LDC ON



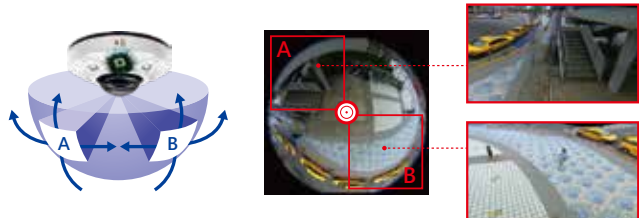
### Object Auto Tracking

The 3S IP speed dome camera features an excellent auto-tracking function. It can focus on and track moving objects through panning, tilting, and zooming out, providing unparalleled tracking speed and accuracy. This ensures that no details are missed during surveillance.



### Advanced e-PTZ

The unique e-PTZ feature offers instant pan, tilt, and zoom functions, allowing users to manually operate the camera and enabling automatic target tracking based on detected events.



### Region of Interest (ROI)

The image-outlined blocks are processed using squares, circles, ellipses, and irregular polygons. The selected small blocks are then used for image analysis, effectively reducing image processing time.







### Automatic IR Cut Filter (ICR)

3S cameras can automatically switch the infrared filter function in low-light situations to deliver exceptional imaging performance.



Day Mode

Night Mode



### Powerful IR LEDs

3S cameras are equipped with high-power IR illuminators, extending the image capture area for enhanced night visibility.



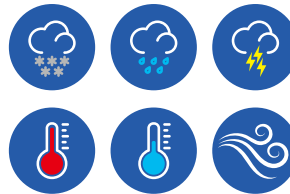
Normal

IR ON



### Weather-Proof Design

3S IP cameras are designed with weather-proof features, holding IP66, IP67, and IP69K ratings. The robust housing ensures stable and reliable operation, making them resilient to extreme temperatures, lightning strikes, and electrical surges, even in harsh climates.



### Vandal-Proof Design

3S IP cameras feature a vandal-proof design with robust and rugged housing. With IK10 ratings, they ensure high reliability by resisting impacts and preventing damage effectively.



### Ex Equipment Certification

The 3S explosion-proof IP camera has received national-level certification for explosion-proof capabilities from the Taiwan Industrial Technology Research Institute. This certification guarantees the camera's reliability and durability, making it suitable for challenging environmental conditions such as high temperatures, vibrations, dust, or humidity. The rugged design ensures workplace safety and helps minimize the risk of accidents.

**Ex d IIC T6 Gb**  
**Ex td IIIC T85° Db**



Ex Equipment Certification from Taiwan Industrial Technology Research Institute



### Easy Installation and Complete Accessories

All 3S cameras are designed with a design that simplifies the installation process, reducing the time installers need to spend on-site. Moreover, we offer a diverse range of accessories to meet various application requirements across different field scenarios.



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## **ENCODER & DECODER**

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# CAMERAS

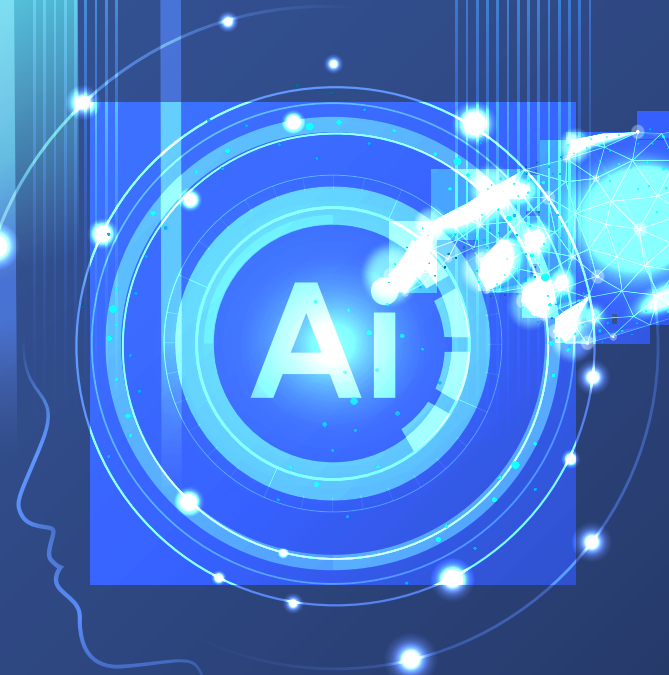


01. **Bispectral / Thermal IP Camera**
02. **Speed Dome IP Camera**
03. **Multi-Sensor IP Camera**
04. **Fisheye IP Camera**
05. **Dome / Turret Camera**
06. **Bullet / Tube Camera**
07. **Cube IP Camera**
08. **Thermal / Zoom Camera Module**
09. **Accessories**



# 3S'S NEXT-GEN CAMERAS COME IN THREE TIERS

Offer customized configurations to meet unique field application demands and customer preference.



**ONVIF®** | **G S T M**



1

2

3

## Premium

Project Models



Powerful AI



Large Architecture

Idea for :  
Government Project

## Business

Business Models



Powerful AI



Medium Architecture

Idea for :  
Enterprise Project

## Arrow

Entry-Level Models



Powerful AI



Small Architecture

Idea for :  
Small Business

# CAMERAS

## ALL NEW NEXT-GENERATION IP CAMERA & ANALOG CAMERA SERIES



**01** Premium

Bispectral / Thermal  
IP Camera



**02** Business

Speed Dome  
IP Camera



**03** Premium

Multi-Sensor  
IP Camera



**04** Premium  
Business

Fisheye  
IP Camera



**05** Premium  
Business  
Arrow

Dome / Turret  
Camera



Included  
Analog Cameras

**06** Premium  
Business  
Arrow

Bullet / Tube Camera



Included  
Analog Cameras

**07** Business

Cube IP Camera



**08** Premium  
Business

Thermal / Zoom  
Camera Module



# 01

# BISPECTRAL / THERMAL IP CAMERA

3S bispectral & thermal IP cameras adopt the latest sensor technology. These AI-capable thermal cameras are built with a single or dual-lens, enabling them to capture thermal and optical images simultaneously. They can detect heat sources, measure temperatures, and trigger alarms. Thermal & Bi-spectrum IP cameras enhance safety and visibility for perimeter protection and fire prevention.

## Key Features



Original Design Technology



Unique Detection Technology



Rugged Mechanism Design



Accurate Detection of Heat Source



Intelligent Video Analysis



International Certifications

## Specifications

### Bispectral Explosion-proof IP Camera



Model Type		Dual Lens												
Model No.		B634E1		B634E2		B635E1		B635E2		B636E1		B636E2		
Thermal Module	Sensor	Uncooled microbolometer				Uncooled microbolometer				Uncooled microbolometer				
	Lens	19mm 9.1mm (optional)				19mm 9.1mm (optional)				19mm 9.1mm (optional)				
	Max. Resolution	320x240		640x480		320x240		640x480		320x240		640x480		
	NETD	<70mk				<70mk				<70mk				
Optical Module	Sensor	1/1.8" CMOS				1/2.8" CMOS				1/2.8" CMOS				
	Lens	Motorized Lens 3.6~11mm F1.6				Motorized Lens 3.3~9.6mm, F1.6				Motorized Lens 3.3~9.6mm, F1.6				
	Field of View (FOV)	D:141.6°~55.5°, H:114.6°~48.3°, V:59°~27.1°				D:129°~39.6°, H:96.8°~31.7°, V:69.8°~23.7°				D:126°~39.1°, H:105.7°~34°, V:55.3°~19.1°				
	Max. Resolution	4MP				5MP				8MP				
Min. Illumination		Color : 0.05 Lux, IR ON : 0 Lux				Color : 0.07 Lux, IR ON : 0 Lux				Color : 0.12 Lux, IR ON : 0 Lux				
Storage (Edge Recording)		microSD (256GB max)				microSD (256GB max)				microSD (256GB max)				
IR Viewable Distance		20M				20M				20M				
Video Compression		H.265/H.264/MJPEG				H.265/H.264/MJPEG				H.265/H.264/MJPEG				
Multi-streams	Main	Thermal	640x480@30fps		1280x960@30fps		640x480@30fps		1280x960@30fps		640x480@30fps		1280x960@30fps	
		Optical	2688x1520@30fps		2688x1520@30fps		2592x1944@30fps		2592x1944@30fps		3480x2160@30fps		3480x2160@30fps	
	Sub	Thermal	320x240@30fps		640x480@30fps		320x240@30fps		640x480@30fps		320x240@30fps		640x480@30fps	
		Optical	1920x1080@30fps		1920x1080@30fps		1920x1080@30fps		1920x1080@30fps		1920x1080@30fps		1920x1080@30fps	
	MJPEG	1920x1080@30fps				1280x960@30fps				1920x1080@30fps				
Audio Compression						G.711, G.726								
Audio Capability						Audio in / Audio out								
Power Input						DC12V ±10%								
Operating Temperature						-10°C~50°C								
Dimensions / Weight						302(L)x160(W)x164(H)mm(w/o Bracket) / 8,000g								
Ingress Protection						IP68, IK10								
Certifications						Ex d IIC T6 Gb, Ex td IIIC T85° Db								



## Specifications

### Bispectral Tube IP Camera



Model Type		Dual Lens			
Model No.		B112P1	B112P2	B114P1	B114P2
Thermal Module	Sensor	Uncooled microbolometer		Uncooled microbolometer	
	Lens	19mm (9.1mm / 35mm optional)		19mm (9.1mm / 35mm optional)	
	Max. Resolution	320x240	640x480	320x240	640x480
	NETD	<70mk		<70mk	
Optical Module	Sensor	1/2.8" CMOS		1/1.8" CMOS	
	Lens	Motorized Lens 2.7~13.5mm, F1.4		Motorized Lens 3.6~11mm, F1.6	
	Field of View (FOV)	D:134°~38°, H:110°~33°, V:57°~18°		D:141.6°~55.5°, H:114.6°~48.3°, V:59°~27.1°	
	Max. Resolution	2MP		4MP	
Min. Illumination		Color : 0.05 Lux, IR ON : 0 Lux		Color : 0.05 Lux, IR ON : 0 Lux	
Storage (Edge Recording)		microSD (256GB max)		microSD (256GB max)	
IR Viewable Distance		50M		50M	
Video Compression		H.265/H.264/MJPEG		H.265/H.264/MJPEG	
Multi-streams	Main	Thermal:1280x960@30fps, Optical:1920x1080@60fps		Thermal:1280x960@30fps, Optical:2688x1520@30fps	
	Sub	Thermal:640x480@30fps, Optical:1280x720@60fps		Thermal:640x480@30fps, Optical:1920x1080@30fps	
	MJPEG	1920x1080@30fps		1920x1080@30fps	
Audio Compression		G.711, G.726		G.711, G.726	
Audio Capability		Audio in / Audio out		Audio in / Audio out	
Power Input		DC12V ±10% / PoE (IEEE 802.3at)		DC12V ±10% / PoE (IEEE 802.3at)	
Operating Temperature		-10°C~50°C		-10°C~50°C	
Dimensions / Weight		175(L) x 204(W) x 91(H)mm (w/o Bracket) / 2,000g		175(L) x 204(W) x 91(H)mm (w/o Bracket) / 2,000g	
Ingress Protection		IP68, IK10		IP68, IK10	

### Bispectral Tube IP Camera



Model Type		Dual Lens			
Model No.		B115P1	B115P2	B116P1	B116P2
Thermal Module	Sensor	Uncooled microbolometer		Uncooled microbolometer	
	Lens	19mm (9.1mm / 35mm optional)		19mm (9.1mm / 35mm optional)	
	Max. Resolution	320x240	640x480	320x240	640x480
	NETD	<70mk		<70mk	
Optical Module	Sensor	1/2.8" CMOS		1/2.8" CMOS	
	Lens	Motorized Lens 3.3~9.6mm, F1.6		Motorized Lens 3.3~9.6mm, F1.6	
	Field of View (FOV)	D:129°~39.6°, H:96.8°~31.7°, V:69.8°~23.7°		D:126.5°~39.1°, H:105.7°~34°, V:55.3~19.1°	
	Max. Resolution	5MP		8MP	
Min. Illumination		Color : 0.07 Lux, IR ON : 0 Lux		Color : 0.12 Lux, IR ON : 0 Lux	
Storage (Edge Recording)		microSD (256GB max)		microSD (256GB max)	
IR Viewable Distance		50M		50M	
Video Compression		H.265/H.264/MJPEG		H.265/H.264/MJPEG	
Multi-streams	Main	Thermal:1280x960@30fps, Optical:2592x1944@30fps		Thermal:1280x960@30fps, Optical:3480x2160@30fps	
	Sub	Thermal:640x480@30fps, Optical:1920x1080@30fps		Thermal:640x480@30fps, Optical:1920x1080@30fps	
	MJPEG	1280x960@30fps		1920x1080@30fps	
Audio Compression		G.711, G.726		G.711, G.726	
Audio Capability		Audio in / Audio out		Audio in / Audio out	
Power Input		DC12V ±10% / PoE (IEEE 802.3at)		DC12V ±10% / PoE (IEEE 802.3at)	
Operating Temperature		-10°C~50°C		-10°C~50°C	
Dimensions / Weight		175(L) x 204(W) x 91(H)mm (w/o Bracket) / 2,000g		175(L) x 204(W) x 91(H)mm (w/o Bracket) / 2,000g	
Ingress Protection		IP68, IK10		IP68, IK10	

## Specifications

### Fixed-Lens

## Bispectral Bullet IP Camera



Model Type		Dual Lens	
Model No.		T6078-BE	T6079-BE
Thermal Module	Sensor	Uncooled microbolometer	Uncooled microbolometer
	Lens	-	-
	Max. Resolution	80x60	160x120
	NETD	<50mk	<50mk
Optical Module	Sensor	1/2.8" CMOS	1/2.8" CMOS
	Lens	Fixed Lens 4mm, F1.6	Fixed Lens 4mm, F1.6
	Field of View (FOV)	D:104.3°, H:87.9°, V:46.7°	D:104.3°, H:87.9°, V:46.7°
	Max. Resolution	2MP	2MP
Min. Illumination		Color : 0.03 Lux, IR ON : 0 Lux	Color : 0.03 Lux, IR ON : 0 Lux
Storage (Edge Recording)		microSD (256GB max)	microSD (256GB max)
IR Viewable Distance		-	-
Video Compression		H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main	Thermal:80x60@8.3fps, Optical:1920x1080@30fps	Thermal:80x60@8.3fps, Optical:1920x1080@30fps
	Sub	Thermal:80x60@8.3fps, Optical:1280x720@15fps	Thermal:80x60@8.3fps, Optical:1280x720@15fps
	MJPEG	1920x1080@30fps	1920x1080@30fps
Audio Compression		G.711, G.726	G.711, G.726
Audio Capability		Audio in / Audio out	Audio in / Audio out
Power Input		DC12V ±10% / PoE (IEEE 802.3at)	DC12V ±10% / PoE (IEEE 802.3at)
Operating Temperature		20°C~40°C	20°C~40°C
Dimensions / Weight		70(Ø) x 153(H)mm / 434g	70(Ø) x 153(H)mm / 434g
Ingress Protection		IP66	IP66

### Fixed-Lens

## Bispectral Turret IP Camera



Model Type		Dual Lens	
Model No.		T9078-BE	T9079-BE
Thermal Module	Sensor	Uncooled microbolometer	Uncooled microbolometer
	Lens	-	-
	Max. Resolution	80X60	160x120
	NETD	<50 mK	<50mk
Optical Module	Sensor	1/2.8" CMOS	1/2.8" CMOS
	Lens	Fixed Lens 4 mm, F1.6	Fixed Lens 4mm, F1.6
	Field of View (FOV)	D:104.3°, H:87.9°, V:46.7°	D:104.3°, H:87.9°, V:46.7°
	Max. Resolution	2MP	2MP
Min. Illumination		Color : 0.03 Lux	Color : 0.03 Lux
Storage (Edge Recording)		microSD (256GB max)	microSD (256GB max)
IR Viewable Distance		-	-
Video Compression		H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main	Thermal: 80X60@8.3fps, Optical: 1920x1080@30fps	Thermal:160x120@8.3fps, Optical:1920x1080@30fps
	Sub	Thermal: 80X60@8.3fps, Optical: 1280x720@15fps	Thermal:160x120@8.3fps, Optical:1280x720@15fps
	MJPEG	1920x1080@30fps	1920x1080@30fps
Audio Compression		G.711, G.726	G.711, G.726
Audio Capability		Bulid in MIC only	Bulid in MIC only
Power Input		DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Operating Temperature		20°C~ 40°C	20°C~40°C
Dimensions / Weight		111(Ø) x 86(H) / 630g	111(Ø) x 86(H)mm / 630g
Ingress Protection		IP68	IP68

## Specifications

### Thermal Bullet IP Camera



Model Type		Single Lens	
Model No.		T621P1	T621P2
Thermal Module	Sensor	Uncooled microbolometer	Uncooled microbolometer
	Lens	19mm	19mm
	Max. Resolution	320X240	640X480
	NETD	<70 mK	<70 mK
Optical Module	Sensor	-	-
	Lens	-	-
	Field of View (FOV)	-	-
	Max. Resolution	-	-
Min. Illumination		-	-
Storage (Edge Recording)		microSD (256GB max)	microSD (256GB max)
IR Viewable Distance		-	-
Video Compression		H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main	640x480@30fps H.265;H.264	1280x960@30fps H.265;H.264
	Sub	320x240@30fps H.265;H.264	640x480@30fps H.265;H.264
	MJPEG	320x240@10fps	640x480@10fps
Audio Compression		G.711, G.726	G.711, G.726
Audio Capability		Audio in / Audio out	Audio in / Audio out
Power Input		DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Operating Temperature		0°C~ 50°C	0°C~ 50°C
Dimensions / Weight		74(Ø) x 151(L)mm / 500g	74(Ø) x 151(L)mm / 500g
Ingress Protection		IP66	IP66

### Thermal Bullet IP Camera



Model Type		Single Lens	
Model No.		T6051	T6061
Thermal Module	Sensor	Uncooled microbolometer	Uncooled microbolometer
	Lens	19mm	19mm
	Max. Resolution	384X288	640X480
	NETD	<60 mK	<60 mK
Optical Module	Sensor	-	-
	Lens	-	-
	Field of View (FOV)	-	-
	Max. Resolution	-	-
Min. Illumination		-	-
Storage (Edge Recording)		microSD (256GB max)	microSD (256GB max)
IR Viewable Distance		-	-
Video Compression		H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main	640x480@30fps H.265;H.264	1280x960@30fps H.265;H.264
	Sub	320x240@30fps H.265;H.264	640x480@30fps H.265;H.264
	MJPEG	320x240@10fps	640x480@10fps
Audio Compression		G.711, G.726	G.711, G.726
Audio Capability		Audio in / Audio out	Audio in / Audio out
Power Input		DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Operating Temperature		0°C~ 40°C	0°C~ 40°C
Dimensions / Weight		87(Ø) x 242(L)mm / 700g	87(Ø) x 242(L)mm / 700g
Ingress Protection		IP66, IK10	IP66, IK10



# 02

# SPEED DOME IP CAMERA

3S high-performance speed dome IP cameras are designed with rugged highly adaptable hardware structure. The product resolutions range from 2MP, 4MP, and 5MP up to 8MP, with optical zoom options up to 38.5X available. Additionally, the enhanced PTZ function can quickly respond to each instructional action, effectively capturing detailed pictures.

## Key Features



**Rugged Design**



**Optical & Digital Zoom**



**Support PTZ**



**Auto Tracking**



**Built-in Infrared Illuminators**



**Best Weather Resistance**

## Benefits



### Enhanced Night Vision

The Speed Dome IP camera series features built-in high-power infrared illuminators, providing a vivid view of up to 150 meters in dark scenes



**IR ON**



### Powerful Optical Zoom

These cameras offer up to 38.5X optical zoom, providing detailed close-ups.

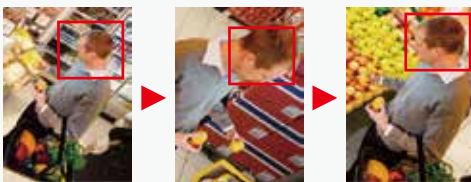


**20X~38.5X**



### Auto-Tracking

These models are equipped with an auto-tracking feature to follow moving objects. The camera automatically locks onto targets, enabling high-speed and uninterrupted tracking missions. This feature is particularly well-suited for wide spaces with large crowds and heavy traffic flow.



### Enhanced PTZ Feature

The enhanced PTZ feature offers instant pan, tilt, and zoom functions, allowing users to operate the camera manually. Additionally, it supports automatic target tracking based on detected events.



### Compact Design

The new-generation speed dome IP cameras are designed with reduced weight and size to cater to various application needs. This compact and lightweight design enhances the installation efficiency for users.



**7 inch**

**5 inch**

**Conventional**

**New-generation**



### Robust Protective Design

The 3S speed dome camera series is engineered to withstand demanding outdoor conditions. Its rugged housing provides excellent protection for the camera body against harsh weather conditions.



## Specifications

### 7 inch IR Speed Dome IP Camera



<b>Resolution</b>	<b>8MP</b>
<b>Optical Zoom</b>	<b>37X</b>
<b>Model No.</b>	<b>N516B2</b>
<b>Video Resolution</b>	8MP
<b>Sensor</b>	1/1.8" CMOS
<b>Optical Zoom</b>	37X Optical Zoom
<b>Lens</b>	5.5~202 mm, F1.6~F3.4
<b>Field of View (FOV)</b>	D:2.65°~67.5°, H:2.31°~60°, V:1.3°~35.5°
<b>Min. Illumination</b>	Color: 0.1 Lux, IR ON: 0 Lux
<b>Storage (Edge Recording)</b>	microSD (256GB max)
<b>IR Viewable Distance</b>	150M
<b>Video Compression</b>	H.265/H.264/MJPEG
<b>Multi-streams</b>	Main : 3840x2160@30fps Sub : 1920x1080@30fps MJPEG : 1920x1080@15fps
<b>Audio Compression</b>	G.711, G.726
<b>Audio Capability</b>	Audio in / Audio out
<b>Power Input</b>	DC12V ±10% / PoE (IEEE 802.3at)
<b>Operating Temperature</b>	0°C~50°C
<b>Dimensions / Weight</b>	206(Ø) x 337(H) mm / 2,500g
<b>Ingress Protection</b>	IP67

### 7 inch IR Speed Dome IP Camera



<b>Resolution</b>	<b>2MP</b>	<b>5MP</b>		<b>8MP</b>
<b>Optical Zoom</b>	<b>30X</b>	<b>30X</b>	<b>38.5X</b>	<b>22X</b>
<b>Model No.</b>	<b>N512B1</b>	<b>N515B1</b>	<b>N515B2</b>	<b>N516B1</b>
<b>Video Resolution</b>	2MP	5MP	5MP	8MP
<b>Sensor</b>	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS
<b>Optical Zoom</b>	30X Optical Zoom	30X Optical Zoom	38.5X Optical Zoom	22X Optical Zoom
<b>Lens</b>	4.5~135mm, F1.6~F4.4	4.5~135 mm, F1.6~F4.4	4.4~169.4 mm, F1.6~F5	6.3~138.5 mm, F1.5~F3.4
<b>Field of View (FOV)</b>	D:2.77°~67.8°, H:2.34°~59.8°, V:1.48°~40.5°	D:2.77°~67.8°, H:2.34°~59.8°, V:48°~40.5°	D:2.24°~72.78°, H:1.92°~65.66°, V:1.06°~39.43°	D:3.76°~70°, H:3.0°~59.8°, V:2.24°~44.4°
<b>Min. Illumination</b>	Color: 0.05 Lux, IR ON: 0 Lux	Color: 0.07 Lux, IR ON: 0 Lux		Color: 0.05 Lux, IR ON: 0 Lux
<b>Storage (Edge Recording)</b>	microSD (256GB max)	microSD (256GB max)		microSD (256GB max)
<b>IR Viewable Distance</b>	150M	150M		150M
<b>Video Compression</b>	H.265/H.264/MJPEG	H.265/H.264/MJPEG		H.265/H.264/MJPEG
<b>Multi-streams</b>	Main : 1920x1080@120fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2592x1944@60fps Sub : 1920x1080@30fps MJPEG : 2592x1944@30fps		Main : 3480x2160@30fps Sub : 1920x1080@30fps MJPEG : 1920x1080@15fps
<b>Audio Compression</b>	G.711, G.726			
<b>Audio Capability</b>	Audio in / Audio out			
<b>Power Input</b>	DC12V ±10% / PoE (IEEE 802.3at)			
<b>Operating Temperature</b>	-40°C~-55°C(Start up should be done at above -25°C)			
<b>Dimensions / Weight</b>	206(Ø) x 333(H) mm / 2,500g			
<b>Ingress Protection</b>	IP66			

## Specifications

### 5 inch IR Speed Dome IP Camera



Resolution	2MP	5MP	8MP
Optical Zoom	30X	30X	4X
Model No.	N522B1	N525B1	N526B1
Video Resolution	2MP	5MP	8MP
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS
Optical Zoom	30X Optical Zoom	30X Optical Zoom	4X Optical Zoom
Lens	4.5~135 mm, F1.6~F4.4	4.5~135 mm, F1.6~F4.4	10~40 mm, F1.3~F1.4
Field of View (FOV)	D:2.77°~67.8°, H:2.34°~59.8°, V:1.48°~40.5°	D:2.77°~67.8°, H:2.34°~59.8°, V:1.48°~40.5°	D:12.2°~49.8°, H:10.7°~42.8°, V:6.1°~23.7°
Min. Illumination	Color: 0.05 Lux, IR ON: 0 Lux	Color: 0.07 Lux, IR ON: 0 Lux	Color: 0.05 Lux, IR ON: 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	100M	100M	100M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@120fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2592x1944@60fps Sub : 1920x1080@30fps MJPEG : 2592x1944@30fps	Main : 3840x2160@30fps Sub : 1920x1080@30fps MJPEG : 1920x1080@15fps
Audio Compression	G.711, G.726		
Audio Capability	Audio in / Audio out		
Power Input	DC12V ±10% / PoE (IEEE 802.3at )		
Operating Temperature	-40°C~55°C (Start up should be done at above -25°C)		
Dimensions / Weight	160(Ø) x 270(H) mm / 2,500g		
Ingress Protection	IP66		

### 7 inch IR Speed Dome IP Camera



Resolution	2MP			4MP
Optical Zoom	20X	30X	36X	36X
Model No.	N5079-BE	N5079-BE	N5079-BE	N5049-BE
Video Resolution	2MP	2MP	2MP	4MP
Sensor	1/2.8" CMOS	1/3" CMOS	1/2" CMOS	1/1.8" CMOS
Optical Zoom	20X Optical Zoom	30X Optical Zoom	36X Optical Zoom	36X Optical Zoom
Lens	5.2~104 mm, F1.5~F4.8	4.3~129 mm, F1.6~F4.7	6~216 mm, F1.6~F4.7	6~216 mm, F1.5~F4.8
Field of View (FOV)	D:63.2°~3.5°, H:56.4°~3.1°, V:33.5°~1.7°	D:72.9°~2.64°, H:65.1°~2.34°, V:38.4°~1.36°	D:65.5°~2.4°, H:58.4°~2.1°, V:34.1°~1.2°	D:54.8°~2.1°, H:48.6°~1.9°, V:28.5°~1°
Min. Illumination	Color: 0.01 Lux, IR ON: 0 Lux	Color: 0.05 Lux, IR ON: 0 Lux	Color: 0.01 Lux, IR ON: 0 Lux	Color: 0.2 Lux, IR ON: 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	150M	150M	150M	150M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@30fps MJPEG : 1920x1080@30fps	Main : 1920x1080@60fps Sub : 1280x720@30fps MJPEG : 1920x1080@30fps	Main : 1920x1080@60fps Sub : 1280x720@30fps MJPEG : 1920x1080@30fps	Main : 2560x1440@30fps Sub : 1280x720@30fps MJPEG : 2560x1440@15fps
Audio Compression	G.711, G.726			
Audio Capability	Audio in / Audio out			
Power Input	AC24V ±10% / PoE (IEEE 802.3at)			
Operating Temperature	-30°C~60°C			
Dimensions / Weight	206(Ø) x 333(H) mm / 2,500g			
Ingress Protection	IP66, IK10			



## Specifications

### 6 inch Speed Dome IP Camera



Resolution	2MP	
Optical Zoom	20X	30X
Model No.	N5012-BE	N5012-BE
Video Resolution	2MP	2MP
Sensor	1/2.8" CMOS	1/3" CMOS
Optical Zoom	20X Optical Zoom	30X Optical Zoom
Lens	5.2~104 mm, F1.5~F3.5	4.3~129mm, F1.6~F4.7
Field of View (FOV)	D:63.2°~3.5°, H:56.4°~3.1°, V:33.5°~1.7°	D:72.9°~2.64°, H:65.1°~2.34°, V:38.4°~1.36°
Min. Illumination	Color: 0.01 Lux, IR ON: 0 Lux	Color: 0.05 Lux, IR ON: 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	-	-
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@30fps Sub : 1280x720@30fps MJPEG : 1920x1080@30fps	Main : 1920x1080@30fps Sub : 1280x720@30fps MJPEG : 1920x1080@30fps
Audio Compression	G.711, G.726	G.711, G.726
Audio Capability	Audio in / Audio out	Audio in / Audio out
Power Input	AC24V ±10% / PoE (IEEE 802.3at)	AC24V ±10% / PoE (IEEE 802.3at)
Operating Temperature	-20°C~50°C	-20°C~50°C
Dimensions / Weight	243(Ø) x 323(H) mm / 3,900g	243(Ø) x 323(H) mm / 3,900g
Ingress Protection	-	-

# 03

# MULTI-SENSOR IP CAMERA

The 3S multi-sensor IP camera offers a 180° or 360° field of view, concentrating on expansive areas. By housing two or four sensors together, it creates a comprehensive panoramic experience, capturing extensive views and intricate details. This versatile camera is effective in covering various environments, including city surveillance, transportation hubs, airports, parking lots, warehouses, large shopping malls, and more.

## Key Features



All-in-One Design



Rugged Housing



Wide-Area Vision Available



Comprehensive 180° / 360° View



Intelligent Video Analysis



Flexible Wide Tilting Angle



Best Weather Resistance

## Benefits



### Complete View Coverage

3S multi-sensor IP cameras come with 2 or 4 sensors featuring motorized zoom lenses. These cameras can monitor multiple directions simultaneously, providing 180° or 360° coverage through two or four separate streams.



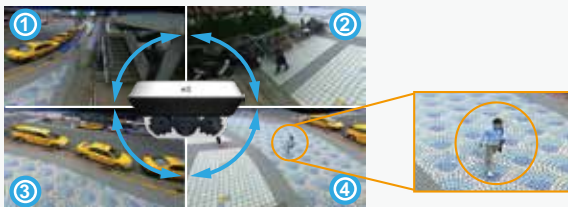
### Cost-Savings

The 3S multi-sensor camera enables more effective monitoring of wide areas using a single device. This results in cost savings for camera installation and device maintenance, while eliminating blind spots.



### Zoom in to Details

With four independent sensors, each equipped with a motorized lens that can be controlled individually, you can monitor scenes in four different directions. Users have the flexibility to control a specific camera lens to zoom in on the target and observe details.



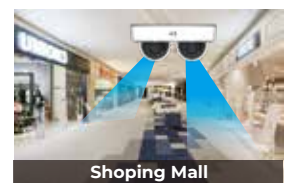
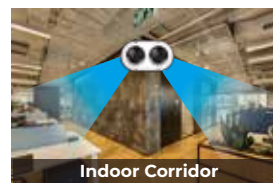
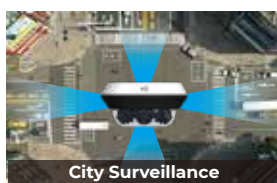
### Robust Protective Design

The rugged housing of our multi-sensor IP camera provides outstanding protection, meeting IP68 ingress protection and IK10 vandal-resistant standards. This design ensures durability, allowing the camera to withstand harsh environments and impacts in extreme weather conditions.



### Comprehensive Surveillance for Indoor and Outdoor Spaces

Our multi-sensor IP cameras offer an expansive 180° or 360° field of view, specifically designed to focus on large areas. Ideal for diverse applications, including city surveillance, industrial facilities, parking lots, railway stations, exhibition centers, airports, ports, and more.



## Specifications

### Dual-Sensor IP Camera



Resolution	4MP	10MP	16MP
Model Type	2MP x 2 Sensors	5MP x 2 Sensors	8MP x 2 Sensors
Model No.	M324P1	M326P1	M327P1
Video Resolution	4MP	10MP	16MP
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	Motorized Lens 2.7-13.5mm, F1.4	Motorized Lens 3.3-9.6mm, F1.6	Motorized Lens 3.3-9.6mm, F1.6
Field of View (FOV)	D:134°~38°, H:110°~33°, V:57°~18°	D:129~39.6°, H:96.8°~31.7°, V:69.8°~23.7°	D:126.5°~39.1°, H:105.7°~34°, V:55.3°~19.1°
Min. Illumination	Color: 0.05 Lux, IR ON: 0 Lux	Color: 0.07 Lux, IR ON: 0 Lux	Color: 0.12 Lux, IR ON: 0 Lux
Storage (Edge Recording)	microSD (256GB max) x 2	microSD (256GB max) x 2	microSD (256GB max) x 2
IR Viewable Distance	20M	20M	20M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@240fps Sub : 1280x720@30fps MJPEG : 1920x1080@120fps	Main : 2560x1920@120fps Sub : 1280x720@60fps MJPEG : 1280x960@120fps	Main : 3840x2160@120fps Sub : 1280x720@60fps MJPEG : 1920x1080@60fps
Audio Compression	G.711, G.726		
Audio Capability	Audio in / Audio out		
Power Input	DC12V ±15% / PoE (IEEE 802.3at )		
Operating Temperature	-40°C~55°C (Start up should be done at above -25°C)		
Dimensions / Weight	61(∅) x 173mm / 1,300g		
Ingress Protection	IP68, IK10		

### Multi-Sensor IP Camera



Resolution	8MP	20MP	32MP
Model Type	2MP x 4 Sensors	5MP x 4 Sensors	8MP x 4 Sensors
Model No.	M316P1	M318P1	M318P2
Video Resolution	8MP	20MP	32MP
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	Motorized Lens 2.7-13.5mm, F1.4	Motorized Lens 3.3-9.6mm, F1.6	Motorized Lens 3.3-9.6mm, F1.6
Field of View (FOV)	D:134°~38°, H:110°~33°, V:57°~18°	D:129~39.6°, H:96.8°~31.7°, V:69.8°~23.7°	D:126.5°~39.1°, H:105.7°~34°, V:55.3°~19.1°
Min. Illumination	Color: 0.05 Lux, IR ON: 0 Lux	Color: 0.07 Lux, IR ON: 0 Lux	Color: 0.12 Lux, IR ON: 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	20M	20M	20M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@240fps Sub : 1280x720@30fps MJPEG : 1920x1080@120fps	Main : 2560x1920@120fps Sub : 1280x720@60fps MJPEG : 1280x960@60fps	Main : 3840x2160@120fps Sub : 1280x720@60fps MJPEG : 1920x1080@60fps
Audio Compression	G.711, G.726		
Audio Capability	Audio in / Audio out		
Power Input	DC12V ±15% / PoE (IEEE 802.3at )		
Operating Temperature	-40°C~55°C (Start up should be done at above -25°C)		
Dimensions / Weight	292(∅) x 146mm / 3,500g		
Ingress Protection	IP68, IK10 (Metal Housing)		



# 04

# FISHEYE IP CAMERA

The Fisheye IP Camera is equipped with a starlight-level sensor, ensuring outstanding video resolution. With its built-in fisheye lens, it offers a 180° panoramic view or a complete 360° surround view. This effectively eliminates the limitations associated with using four IP cameras with a restricted viewing angle. Moreover, it significantly reduces the device's power consumption, aligning with the pursuit of economic efficiency.

## Key Features



Fisheye Lens



High Definition Images



180° / 360° Field of View



Support e-PTZ



Dual Side Dewarping



Built-in Infrared Illuminators



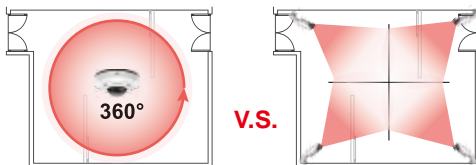
Best Weather Resistance

## Benefits



### Complete View Coverage

A single fisheye IP camera offers comprehensive coverage for an entire area. Utilizing a 360° fisheye camera can effectively reduce equipment costs and minimize installation fees.



360° Fisheye Camera x 1

Bullet Camera x 4



### Enhanced Night Vision

Enhanced Night Vision: 3S fisheye IP cameras, equipped with high-powered IR LEDs, deliver superior night vision, capturing clear images in challenging low-light conditions.



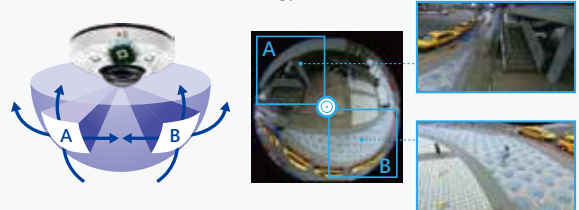
### Dual Side Dewarping

Dual Side Dewarping is a function that processes an image from a fisheye camera, producing a new image without distortion, similar to regular cameras. 3S fisheye cameras support dewarping directly on the camera, as well as within the 3S software.



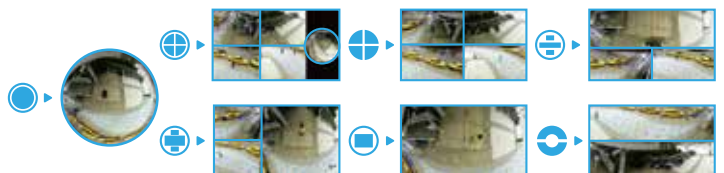
### e-PTZ Functionality

e-PTZ Functionality: ePTZ functionalities enable comprehensive monitoring of large surveillance environments. Images can be zoomed in, zoomed out, rotated, and angled through software technology.



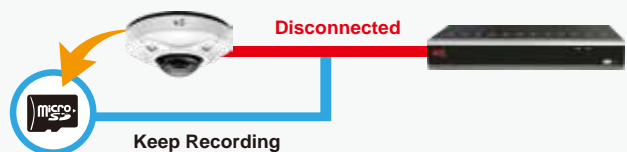
### Many Display Modes

There are 7 dewarping view modes that can be switched spontaneously according to your preferences, meeting diverse monitoring requirements.



### Seamless Recording

When the fisheye IP cameras are disconnected, the Micro SD card will begin recording instantly.



## Specifications

### 360° Fisheye IP Camera



Resolution	12MP		
Model Type	Ceiling Model		Surface Model
Model No.	N417P1-C	N417P1-CIR	N417P1
Video Resolution	Full 12MP		Full 12MP
Sensor	1/1.6" CMOS		1/1.6" CMOS
Lens	Fisheye Lens 1.7mm, F2.2		Fisheye Lens 1.7mm, F2.2
Field of View (FOV)	H:180°, V:180°		H:180°, V:180°
Min. Illumination	Color : 0.07 Lux, IR ON : 0 Lux		Color : 0.07 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max) x 2		microSD (256GB max) x 2
IR Viewable Distance	-	20M	20M
Video Compression	H.265/H.264/MJPEG		H.265/H.264/MJPEG
Multi-streams	Main : 3552x3552@30fps		Main : 3552x3552@30fps
	Sub : 1768x1768@30fps		Sub : 1768x1768@30fps
	MJPEG : 1768x1768@15fps		MJPEG : 1768x1768@15fps
Audio Compression	G.711, G.726		G.711, G.726
Audio Capability	Audio in / Audio out (optional : Built-in MIC )		Audio in / Audio out (optional : Built-in MIC )
Power Input	DC12V ±15% / PoE (IEEE 802.3af)		DC12V ±15% / PoE (IEEE 802.3af)
Operating Temperature	-20°C~50°C		-20°C~50°C
Dimensions / Weight	190(Ø) x 61(H)mm / 700g	145(Ø) x 58(H)mm / 700g	145(Ø) x 58(H)mm / 700g
Ingress Protection	IK10	IK10	IP69K (without Mic), IK10
Certifications	-	-	EN50155:2017 / IEC60571

### 360° Fisheye IP Camera



Resolution	12MP
Model Type	Surface Model
Model No.	N9098-REL
Video Resolution	12MP (Cropping 9MP)
Sensor	1/1.7" CMOS
Lens	Fisheye Lens 1.2mm, F2.2
Field of View (FOV)	H:180°, V:180°
Min. Illumination	Color : 0.15 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)
IR Viewable Distance	20M
Video Compression	H.265/H.264/MJPEG
Multi-streams	Main : 3000x3000@15fps
	Sub : 1600x1600@10fps
	MJPEG : 1600x1600@5fps
Audio Compression	G.711, G.726
Audio Capability	Audio in / Audio out (optional : Built-in MIC )
Power Input	DC12V ±15% / PoE (IEEE 802.3af)
Operating Temperature	-20°C~50°C
Dimensions / Weight	145(Ø) x 58(H)mm / 700g
Ingress Protection	IP69K (without Mic), IK10
Certifications	EN50155:2007/AC:2010

## Specifications

### 180° Fisheye IP Camera (Bullet Model)



<b>Resolution</b>	<b>8MP</b>
<b>Model Type</b>	<b>Bullet Model</b>
<b>Model No.</b>	<b>N426P1</b>
<b>Video Resolution</b>	8MP
<b>Sensor</b>	1/2.8" CMOS
<b>Lens</b>	Fisheye Lens 2.0 mm, F2.4
<b>Field of View (FOV)</b>	H: 180°, V: 91°
<b>Min. Illumination</b>	Color : 0.007 Lux, IR ON : 0 Lux
<b>Storage (Edge Recording)</b>	microSD (256GB max) x 2
<b>IR Viewable Distance</b>	25M
<b>Video Compression</b>	H.265/H.264/MJPEG
<b>Multi-streams</b>	Main : 3840x2160@30fps Sub : 1920x1080@30fps MJPEG : 1920x1080@15fps
<b>Audio Compression</b>	G.711, G.726
<b>Audio Capability</b>	Audio in / Audio out (optional : Built-in MIC )
<b>Power Input</b>	DC12V ±15% / PoE (IEEE 802.3af)
<b>Operating Temperature</b>	-20°C~50°C
<b>Dimensions / Weight</b>	74(Ø) x 151(L)mm / 400g
<b>Ingress Protection</b>	IP67, IK7

# 05

# DOME / TURRET CAMERA

Dome and turret cameras adopt starlight-level sensors, offering resolutions ranging from 2MP, 4MP, 5MP to up to 8MP, providing clear and accurate imaging. Developed and manufactured in-house, these cameras exhibit stable performance. Users have the flexibility to choose from various lens types, camera types, and resolutions based on their surveillance scenario requirements.

## Key Features



**Rugged Housing**



**Starlight-Level CMOS**



**High Definition Images**



**Intelligent Video Analysis**



**Built-in Infrared Illuminators**



**Best Weather Resistance**



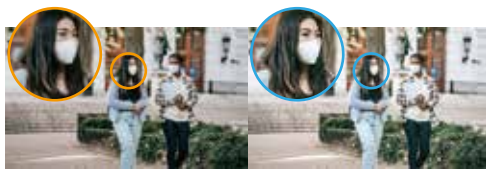
**Easy Installation**

## Benefits



### 4K Resolution

Dome and Turret camera series continually develop new specifications and deliver much clearer vivid images than before. Not only provides a better video resolution, but also upgrade in AI analysis functions to meet mid to large-sized businesses and projects.



2MP

4K



### H.265 Compression

All cameras in our lineup support H.265 compression technology, ensuring the maintenance of high-quality images while reducing network bandwidth. This results in significant savings on storage space for video files.



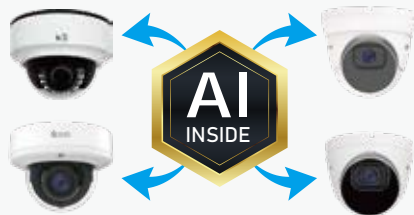
H.264

H.265 HEVC



### Powerful AI Analysis

Some camera models are equipped with a powerful AI engine for accurate real-time detection and classification of people, vehicles, and objects.



### Smart IR Illuminators

Built-in high-power infrared LEDs enhance the monitoring effectiveness at night, with the longest smart IR distance reaching up to 50 meters.



### Enhanced Night Vision

All cameras adopt starlight-level sensors, enabling them to easily capture excellent images in low-light environments. This provides a realistic perspective with high-definition details.



### Robust Protective Design

The 3S dome and turret camera series are designed to withstand demanding outdoor conditions, with rugged housing that protects the camera body against harsh weather conditions.





## Specifications

### Dome IP Camera



<b>Resolution</b>	<b>8MP</b>
<b>Model Type</b>	<b>Motorized Lens</b>
<b>Model No.</b>	<b>N336P1</b>
<b>Video Resolution</b>	8MP
<b>Sensor</b>	1/1.8" CMOS
<b>Lens</b>	Motorized Lens 3.6-11mm, F1.6
<b>Field of View (FOV)</b>	D:137.5°~54.6°, H:112.1°~47.5°, V:58°~26.6°
<b>Min. Illumination</b>	Color : 0.1 Lux, IR ON : 0 Lux
<b>Storage (Edge Recording)</b>	microSD (256GB max)
<b>IR Viewable Distance</b>	50M
<b>Video Compression</b>	H.265/H.264/MJPEG
<b>Multi-streams</b>	Main : 3840x2160@30fps Sub : 1280x720@30fps MJPEG : 1920x1080@15fps
<b>Audio Compression</b>	G.711, G.726
<b>Audio Capability</b>	Audio in / Audio out
<b>Power Input</b>	DC12V ±10% / PoE (IEEE 802.3af )
<b>Operating Temperature</b>	-25°C~ 55°C
<b>Dimensions / Weight</b>	126(Ø) x 103(H)mm / 870g
<b>Ingress Protection</b>	IP68, IK10

### Dome IP Camera



<b>Resolution</b>	<b>2MP</b>	<b>5MP</b>
<b>Model Type</b>	<b>Motorized Lens</b>	<b>Motorized Lens</b>
<b>Model No.</b>	<b>N3072M-A</b>	<b>N3012M-A</b>
<b>Video Resolution</b>	2MP	5MP
<b>Sensor</b>	1/2.8" CMOS	1/2.7" CMOS
<b>Lens</b>	Motorized Lens 2.8-12mm, F1.8	Motorized Lens 2.8-12mm, F1.8
<b>Field of View (FOV)</b>	D:134°~37°, H:111°~33°, V:57°~18°	D:128°~29°, H:93°~27°, V:66°~15°
<b>Min. Illumination</b>	Color : 0.01 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux
<b>Storage (Edge Recording)</b>	microSD (256GB max)	microSD (256GB max)
<b>IR Viewable Distance</b>	30M	45M
<b>Video Compression</b>	H.265/H.264	H.265/H.264
<b>Multi-streams</b>	Main : 1920x1080@30fps Sub : 1280x720@30fps Mobile Stream : 640x480@30fps	Main : 2592x1944@20fps Sub : 1280x720@20fps Mobile Stream : 320x240@30fps
<b>Audio Compression</b>	G.711	G.711
<b>Audio Capability</b>	Audio in / Audio out (RCA)	Audio in / Audio out (RCA)
<b>Power Input</b>	DC12V ±15% / PoE (IEEE 802.3af )	DC12V ±15% / PoE (IEEE 802.3af )
<b>Operating Temperature</b>	-30°C~ 55°C	-30°C~ 55°C
<b>Dimensions / Weight</b>	149(Ø) x 109mm / 960g	149(Ø) x 109mm / 960g
<b>Ingress Protection</b>	IP66	IP66

## Specifications

### Turret IP Camera



Resolution	2MP	4MP	8MP
Model Type	Motorized Lens	Motorized Lens	Motorized Lens
Model No.	N9071M-BE	N9041M-BE	N9091M-BE
Video Resolution	2MP	4MP	8MP
Sensor	1/2.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Lens	Motorized Lens 2.7-13.5mm F1.4	Motorized Lens 3.6~11mm, F1.6	Motorized Lens 3.6~11mm, F1.6
Field of View (FOV)	D:134°~38°, H:110°~33°, V:57°~18°	D:141.6°~55.5°, H:114.6°~48.3°, V:59°~27.1°	D:137.5°~54.6°, H:112.1°~47.5°, V:58°~26.6°
Min. Illumination	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.1 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	50M	50M	50M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2688x1520@60fps Sub : 1280x720@30fps MJPEG : 1920x1080@30fps	Main : 3840x2160@30fps Sub : 1280x720@30fps MJPEG : 1920x1080@15fps
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726
Audio Capability	Audio in / Audio out	Audio in / Audio out	Audio in / Audio out
Power Input	DC12V ±10% / PoE (IEEE 802.3 af)	DC12V ±10% / PoE (IEEE 802.3 af)	DC12V ±10% / PoE (IEEE 802.3 af)
Operating Temperature	-25°C~60°C	-25°C~60°C	-25°C~60°C
Dimensions / Weight	126(Ø) x 103(H)mm / 870g	126(Ø) x 103(H)mm / 870g	126(Ø) x 103(H)mm / 870g
Ingress Protection	IP68, IK10	IP68, IK10	IP68, IK10

### Turret IP Camera



Resolution	2MP	5MP
Model Type	Motorized Lens	Motorized Lens
Model No.	N9074M-A	N9014M-A
Video Resolution	2MP	5MP
Sensor	1/2.8" CMOS	1/2.7" CMOS
Lens	Motorized Lens 2.8-12mm, F1.8	Motorized Lens 2.8-12mm, F1.8
Field of View (FOV)	D:134°~37°, H:111°~33°, V:57°~18°	D:128°~29°, H:93°~27°, V:66°~15°
Min. Illumination	Color : 0.01 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	45M	45M
Video Compression	H.265/H.264	H.265/H.264
Multi-streams	Main : 1920x1080@30fps Sub : 1280x720@30fps Mobile Stream : 640x480@30fps	Main : 2592x1944@20fps Sub : 1280x720@20fps Mobile Stream : 320x240@20fps
Audio Compression	-	-
Audio Capability	Audio in / Audio out (RCA)	Audio in / Audio out (RCA)
Power Input	DC12V ±15% / PoE (IEEE 802.3af)	DC12V ±15% / PoE (IEEE 802.3af)
Operating Temperature	-30°C~ 55°C	-30°C~ 55°C
Dimensions / Weight	126(Ø) x 102.51mm / 881g	126(Ø) x 102.51mm / 881g
Ingress Protection	IP66	IP66

## Specifications

### Fixed-Lens

## Mini Dome IP Camera



Resolution	2MP	5MP
Model Type	Fixed Lens	Fixed Lens
Model No.	N9072-BE	N9012-BE
Video Resolution	2MP	5MP
Sensor	1/2.8" CMOS	1/2.8" CMOS
Lens	Fixed Lens 2.8mm, F2.0	Fixed Lens 2.8mm, F2.0
Field of View (FOV)	D:125° , H:109° , V:61°	D:127° , H:101° , V:75°
Min. Illumination	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.07 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	30M	30M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2560x1920@30fps Sub : 1280x960@30fps MJPEG : 1920x1080@30fps
Audio Compression	G.711, G.726	G.711, G.726
Audio Capability	Built-in MIC / Audio out	Built-in MIC / Audio out
Power Input	DC12V ±10% / PoE (IEEE 802.3at)	DC12V ±10% / PoE (IEEE 802.3at)
Operating Temperature	-25°C~60°C	-25°C~60°C
Dimensions / Weight	111(Ø) x 64(H)mm / 525g	111(Ø) x 64(H)mm / 525g
Ingress Protection	IP69K, IK10	IP69K, IK10

### Fixed-Lens

## Turret IP Camera



Resolution	2MP	5MP	8MP
Model Type	Fixed Lens	Fixed Lens	Fixed Lens
Model No.	N392B1	N395B1	N396B1
Video Resolution	2MP	5MP	8MP
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	Fixed Lens 2.8 mm, F2.0	Fixed Lens 2.8 mm, F2.0	Fixed Lens 2.8mm , F1.6
Field of View (FOV)	D:126° , H:105° , V:55°	D:142°~39° , H:106°~32° , V:73°~23°	D:132° , H:110° , V:58°
Min. Illumination	Color : 0.03 Lux, IR ON : 0 Lux	Color : 0.07 Lux, IR ON : 0 Lux	Color : 0.07 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (128GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	50M	50M	50M
Video Compression	H.265/H.264/MJPEG	H.265/H.264	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2560x1920@60fps Sub : 1280x960@30fps MJPEG : 1920x1080@15fps	Main : 3840x2160@30fps Sub : 1280x720@30fps MJPEG : 1920x1080@15fps
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726
Audio Capability	Audio in / Audio out	Audio in / Audio out	Audio in / Audio out
Power Input	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±15% / PoE (IEEE 802.3af )	DC12V ±15% / PoE (IEEE 802.3af )
Operating Temperature	-30°C~ 55°C	-30°C~ 55°C	-30°C~ 55°C
Dimensions / Weight	100(Ø) x90mm / 420g	100(Ø) x 90mm / 420g	100(Ø) x 90mm / 420g
Ingress Protection	IP66, IK10	IP66, IK10	IP66, IK10

## Specifications

### Fixed-Lens

#### Turret IP Camera



Resolution	2MP	5MP	8MP
Model Type	Fixed Lens	Fixed Lens	Fixed Lens
Model No.	N9074-A	N9014-A	N396A1
Video Resolution	2MP	5MP	8MP
Sensor	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS
Lens	Fixed Lens 3.6mm , F1.6 Fixed Lens 2.8mm , F2.0 (optional)	Fixed Lens 3.6mm , F1.6 Fixed Lens 2.8mm , F2.0 (optional)	Fixed Lens 2.8mm , F1.6
Field of View (FOV)	D:105°, H:88°, V:44° for 3.6mm D:128°, H:107°, V:57° for 2.8mm	D:107°, H:80°, V:57° for 3.6mm D:131°, H:99°, V:72° for 2.8mm	D:132°, H:110°, V:58°
Min. Illumination	Color : 0.01 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.009 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	30M	30M	30M
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264
Multi-streams	Main : 1920X1080@30fps Sub : 1280x720@30fps Mobile Stream : 640x480@30fps	Main : 2592x1944@20fps Sub : 1280x720@20fps Mobile Stream : 320x240@20fps	Main : 3840x2160@20fps Sub : 1280x720@20fps Mobile Stream : 640x480@20fps
Audio Compression	G.711	G.711	G.711
Audio Capability	Built-in Mic	Built-in Mic	Built-in Mic
Power Input	DC12V ±15% / PoE (IEEE 802.3af )	DC12V ±15% / PoE (IEEE 802.3af )	DC12V ±15% / PoE (IEEE 802.3af )
Operating Temperature	-30°C~ 55°C	-30°C~ 55°C	-30°C~ 55°C
Dimensions / Weight	100(∅) x 90mm / 420g	100(∅) x 90mm / 420g	100(∅) x 90mm / 420g
Ingress Protection	IP66	IP66	IP67

### Fixed-Lens

#### Turret IP Camera



Resolution	2MP	5MP
Model Type	Fixed Lens	Fixed Lens
Model No.	N9079-EL	N9019-EL
Video Resolution	2MP	5MP
Sensor	1/2.8" CMOS	1/2.8" CMOS
Lens	Fixed Lens 2.8mm, F2.0	Fixed Lens 2.8mm, F2.0
Field of View (FOV)	D:128°, H:108°, V:58°	D:103°, H:82°, V:62°
Min. Illumination	Color : 0.03 Lux, IR ON : 0 Lux	Color : 0.07 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (128GB max)	microSD (128GB max)
IR Viewable Distance	50M	50M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@30fps Sub : 1280x720@30fps MJPEG : 1920x1080@3fps	Main : 2560x1920@25fps Sub : 1280x960@10fps MJPEG : 1920x1080@3fps
Audio Compression	G.711, G.726	G.711, G.726
Audio Capability	Built-in MIC	Built-in MIC
Power Input	DC12V ±10% / PoE (IEEE 802.3 af)	DC12V ±10% / PoE (IEEE 802.3 af)
Operating Temperature	-20°C~50°C	-20°C~50°C
Dimensions / Weight	111(∅) x 86(H)mm / 637g	111(∅) x 86(H)mm / 637g
Ingress Protection	IP68	IP68



## Specifications

### Dome Analog Camera



Resolution	2MP	5MP
<b>Model Type</b>	<b>Motorized Lens</b>	<b>Motorized Lens</b>
<b>Model No.</b>	<b>K3071-A</b>	<b>K3011-A</b>
<b>Video Resolution</b>	2MP	5MP
<b>Sensor</b>	1/3" CMOS	1/2.7" CMOS
<b>Lens</b>	Motorized Lens 2.8-12mm, F1.8	Motorized Lens 2.8-12mm, F1.8-3.3
<b>Field of View (FOV)</b>	H:91.07-30.71° / V:48.04-17.31° / D:109.39-35.28°	H:106.6°-34.6°/V:54.4°-19.5°/D:132.9°-39.8°
<b>Min. Illumination</b>	Color : 0.08 Lux, IR ON : 0 Lux	Color : 0.04 Lux, IR ON : 0 Lux
<b>IR Viewable Distance</b>	35M	35M
<b>Signal System</b>	PAL / NTSC	PAL / NTSC
<b>Video Frame Rate (Max.)</b>	AHD/TVI/CVI : PAL@25fps NTSC@30fps CVBS : 960H	5AHD/5TVI : 5MP@20fps 4AHD/4CVI/4TVI : PAL@25fps NTSC@30fps CVBS : 960H
<b>Power Input</b>	DC12V ±15%	DC12V ±15%
<b>Operating Temperature</b>	-30°C ~ 55°C	-30°C ~ 55°C
<b>Dimensions / Weight</b>	149(Ø) x 109mm / 930g	149(Ø) x 109mm / 930g
<b>Ingress Protection</b>	IP66	IP66

### Turret Analog Camera



Resolution	2MP	5MP
<b>Model Type</b>	<b>Motorized Lens</b>	<b>Motorized Lens</b>
<b>Model No.</b>	<b>K9071-A</b>	<b>K9011-A</b>
<b>Video Resolution</b>	2MP	5MP
<b>Sensor</b>	1/3" CMOS	1/2.7" CMOS
<b>Lens</b>	Motorized Lens 2.8-12mm, F1.8-3.3	Motorized Lens 2.8-12mm, F1.8
<b>Field of View (FOV)</b>	H:91°~31°, V:48°~17°, D:109°~35°	H:107°~35°, V:54°~20°, D:133°~40°
<b>Min. Illumination</b>	Color : 0.08 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux
<b>IR Viewable Distance</b>	35M	35M
<b>Signal System</b>	PAL / NTSC	PAL / NTSC
<b>Video Frame Rate (Max.)</b>	AHD/TVI/CVI: PAL@25fps NTSC@30fps CVBS: 960H	AHD/TVI: 5MP@20fps AHD/CVI/TVI: PAL@25fps NTSC@30fps CVBS: 960H
<b>Power Input</b>	DC12V ±15%	DC12V ±15%
<b>Operating Temperature</b>	-30°C ~ 55°C	-30°C ~ 50°C
<b>Dimensions / Weight</b>	136(Ø) x 127mm / 881g	136(Ø) x 127mm / 881g
<b>Ingress Protection</b>	IP66	IP66

### Fixed-Lens

### Turret Analog Camera



Resolution	2MP	5MP
<b>Model Type</b>	<b>Fixed Lens</b>	<b>Fixed Lens</b>
<b>Model No.</b>	<b>K9072-A</b>	<b>K9012-A</b>
<b>Video Resolution</b>	2MP	5MP
<b>Sensor</b>	1/3" CMOS	1/2.7" CMOS
<b>Lens</b>	Fixed Lens 2.8mm , F2.0	Fixed Lens 2.8mm , F2.0
<b>Field of View (FOV)</b>	H:88.24°, V:48.71°, D:104.37°	H:111.4°, V:58.8°, D:134°
<b>Min. Illumination</b>	Color : 0.08 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux
<b>IR Viewable Distance</b>	20M	20M
<b>Signal System</b>	PAL / NTSC	PAL / NTSC
<b>Video Frame Rate (Max.)</b>	AHD/TVI/CVI : PAL@25fps NTSC@30fps CVBS : 960H	AHD/TVI: 5MP@20fps AHD/CVI/TVI: 4MP PAL@25fps NTSC@30fps CVBS: 960H
<b>Power Input</b>	DC12V ±15%	DC12V ±15%
<b>Operating Temperature</b>	-30°C ~ 55°C	-30°C ~ 50°C
<b>Dimensions / Weight</b>	100(Ø) x 90mm / 391g	100(Ø) x 90mm / 370g
<b>Ingress Protection</b>	IP66	IP66

06

# BULLET / TUBE CAMERA

Bullet and tube cameras adopt high-sensitivity sensors, and all models offer a full range of high resolutions. Particularly effective in areas with large crowds and heavy traffic flow, these cameras can capture clear video images. Available in various sizes, their housing features excellent protective capabilities, meeting IP66-IP68 waterproof and dustproof standards, along with IK10 vandal-resistant capabilities. This design is intended to withstand harsh environments and impacts in extreme weather conditions, catering to diverse application requirements.

## Key Features



Rugged Housing



Starlight-Level CMOS



High Definition Images



Intelligent Video Analysis



Built-in Infrared Illuminators



Best Weather Resistance



Easy Installation

## Benefits



### Diverse Options

The bullet and tube camera series come in resolutions ranging from 2MP, 4MP, 5MP to up to 8MP. Users can choose from a variety of fixed and motorized lens options to meet specific requirements in various scenarios.



### High-Definition Surveillance

The bullet and tube camera series consistently offer an exceptional viewing experience, delivering vivid and clear images, whether it's day or night.



Daytime

Night



### H.265 Compression

All cameras in our lineup support H.265 compression technology, ensuring the maintenance of high-quality images while reducing network bandwidth. This results in significant savings on storage space for video files.



H.264

H.265 HEVC



### Robust Protective Design

The Bullet and Tube camera series are purposefully designed to thrive in challenging outdoor conditions. The rugged housing provides robust protection, safeguarding the camera body against the rigors of harsh weather conditions.

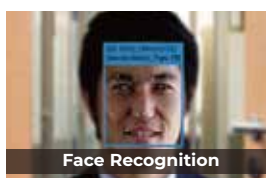


### Advanced AI Analysis

The Bullet and Tube IP Cameras feature a high-sensitivity sensor capable of capturing saturated and ultra-high-definition images, even during high-speed movement. To enhance safety measures, these cameras are equipped with a powerful AI chip. This technology enables real-time recognition and detection of various entities, including humans, vehicles, objects, and animals.



License Plate Recognition



Face Recognition



Object Status Detection



Human Intrusion Detection

## Specifications

### Explosion-Proof IP Camera



Resolution	2MP	4MP	8MP
Model Type	Motorized Lens	Motorized Lens	Motorized Lens
Model No.	N6079M-BEX	N6049M-BEX	N6099M-BEX
Video Resolution	2MP	4MP	8MP
Sensor	1/2.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Lens	Motorized Lens 2.7-13.5mm, F1.4 Motorized Lens 5-50mm, F1.6 (optional)	Motorized Lens 3.6-11mm, F1.6	Motorized Lens 3.6-11mm, F1.6
Field of View (FOV)	D:134°~38°, H:110°~33°, V:57°~18°	D:141.6°~55.5°, H:114.6°~48.3°, V:59°~27.1°	D:135.7°~54.6°, H:112.1°~47.5°, V:58°~26.6°
Min. Illumination	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.1 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	50M	50M	50M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2688x1520@30fps Sub : 1280x720@30fps MJPEG : 1920x1080@30fps	Main : 3840x2160@30fps Sub : 1280x720@30fps MJPEG : 1920x1080@15fps
Audio Compression	G.711, G.726		
Audio Capability	Audio in / Audio out		
Power Input	DC12V ±10% / PoE (IEEE 802.3at )		
Operating Temperature	-25°C~ 60°C		
Dimensions / Weight	144(Ø) x 270 (L) x 165(H)mm / 8,000g		
Ingress Protection	IP69K, IK10		
Certifications	Ex d IIC T6 Gb, Ex tb IIIC T85°C Db		

### Bullet IP Camera



Resolution	2MP	4MP	8MP
Model Type	Motorized Lens	Motorized Lens	Motorized Lens
Model No.	N6072M-BE	N6042M-BE	N6092M-BE
Video Resolution	2MP	4MP	8MP
Sensor	1/2.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Lens	Motorized Lens 2.7-13.5mm, F1.4 Motorized Lens 5-50mm, F1.6(optional)	Motorized Lens 3.6-11mm, F1.6	Motorized Lens 3.6-11mm, F1.6
Field of View (FOV)	D:134°~38°, H:110°~33°, V:57°~18°	D:141.6°~55.5°, H:114.6°~48.3°, V:59°~27.1°	D:137.5°~54.6°, H:112.1°~47.5°, V:58°~26.6°
Min. Illumination	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.1 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	50M	50M	50M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2688x1520@60fps Sub : 1280x720@30fps MJPEG : 1920x1080@30fps	Main : 3840x2160@30fps Sub : 1920x1080@30fps MJPEG : 1920x1080@15fps
Audio Compression	G.711, G.726		
Audio Capability	Audio in / Audio out		
Power Input	DC12V ±10% / PoE (IEEE 802.3at)		
Operating Temperature	-25°C~ 60°C (-40°C~ 60°C (optional))		
Dimensions / Weight	463(L) x 171(W) x 256(H)mm / 3,000g		
Ingress Protection	IP68, IK10		

## Specifications

### Bullet IP Camera



Resolution	2MP	4MP	8MP
Model Type	Motorized Lens	Motorized Lens	Motorized Lens
Model No.	N6074M-BE	N6044M-BE	N6094M-BE
Video Resolution	2MP	4MP	8MP
Sensor	1/2.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Lens	Motorized Lens 2.7-13.5mm, F1.4	Motorized Lens 3.6-11mm, F1.6	Motorized Lens 3.6-11mm, F1.6
Field of View (FOV)	D:134°~38°, H:110°~33°, V:57°~18°	D:141.6°~55.5°, H:114.6°~48.3°, V:59°~27.1°	D:137.5°~54.6°, H:112.1°~47.5°, V:58°~26.6°
Min. Illumination	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.1 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	50M	50M	50M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2688x1920@60fps Sub : 1920x1080@30fps MJPEG : 1920x1080@30fps	Main : 3840x2160@30fps Sub : 1920x1080@30fps MJPEG : 1920x1080@15fps
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726
Audio Capability	Audio in / Audio out	Audio in / Audio out	Audio in / Audio out
Power Input	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Operating Temperature	-25°C~ 60°C	-25°C~ 60°C	-25°C~ 60°C
Dimensions / Weight	110(Ø) x 360(L)mm / 1,700g	110(Ø) x 360(L)mm / 1,700g	110(Ø) x 360(L)mm / 1,700g
Ingress Protection	IP68, IK10	IP68, IK10	IP68, IK10

### Bullet IP Camera



Resolution	2MP	5MP
Model Type	Motorized Lens	Motorized Lens
Model No.	N6073M-BE	N601BM-EL
Video Resolution	2M	5M
Sensor	1/2.8" CMOS	1/2.8" CMOS
Lens	Motorized Lens 2.7-13.5mm, F1.4	Motorized Lens 2.7-13.5mm, F1.4
Field of View (FOV)	D:134°~38°, H:110°~33°, V:57°~18°	D:142°~39°, H:106°~32°, V:73°~23°
Min. Illumination	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.07 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (128GB max)
IR Viewable Distance	50M	50M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2560x1920@25fps Sub : 1280x960@10ps MJPEG : 1920x1080@30fps
Audio Compression	G.711, G.726	G.711, G.726
Audio Capability	Audio in / Audio out	Audio in / Audio out
Power Input	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Operating Temperature	-25°C~ 60°C	-20°C~ 50°C
Dimensions / Weight	242(L) x 87(H)mm / 1,000g	242(L) x 87(H)mm / 830g
Ingress Protection	IP66, IK10	IP66, IK10



## Specifications

### Bullet IP Camera



Resolution	2MP	5MP
Model Type	Motorized Lens	Motorized Lens
Model No.	N6074M-A	N6014M-A
Video Resolution	2MP	5MP
Sensor	1/2.8" CMOS	1/2.7" CMOS
Lens	Motorized Lens 2.8-12mm, F1.8	Motorized Lens 2.8-12mm, F1.8
Field of View (FOV)	D:134°~37°, H:111°~33°, V:57°~18°	D:128°~29°, H:93°~27°, V:66°~15°
Min. Illumination	Color : 0.01 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	45M	45M
Video Compression	H.265/H.264	H.265/H.264
Multi-streams	Main : 1920x1080@30fps Sub : 1280x720@30fps Mobile : 640x480@30fps	Main : 2592x1944@20fps Sub : 1280x720@20fps Mobile : 320x240@30fps
Audio Compression	G.711	G.711
Audio Capability	Audio in / Audio out (RCA)	Audio in / Audio out (RCA)
Power Input	DC12V ±15% / PoE (IEEE 802.3 af)	DC12V ±15% / PoE (IEEE 802.3 af)
Operating Temperature	-30°C~ 55°C	-30°C~ 55°C
Dimensions / Weight	87(Ø) x 242mm / 830g	87(Ø) x 242mm / 830g
Ingress Protection	IP66	IP66

### Fixed-Lens

### Mini Bullet IP Camera



Resolution	2MP	5MP	8MP
Model Type	Fixed Lens	Fixed Lens	Fixed Lens
Model No.	N642B1	N645B1	N646B1
Video Resolution	2MP	5MP	8MP
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.7" CMOS
Lens	Fixed Lens 2.8mm, F2.0	Fixed Lens 2.8mm, F2.0	Fixed Lens 2.8mm , F1.6
Field of View (FOV)	D:128°, H:108°, V:58°	D:103°, H:82°, V:62°	D:132°, H:110°, V:58°
Min. Illumination	Color : 0.03 Lux, IR ON : 0 Lux	Color : 0.07 Lux, IR ON : 0 Lux	Color : 0.009 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (128GB max)	microSD (128GB max)	microSD (256GB max)
IR Viewable Distance	50M	50M	30M
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@60fps MJPEG : 1920x1080@30fps	Main : 2560x1920@60fps Sub : 1280x960@30fps MJPEG : 1920x1080@15fps	Main : 3840x2160@30fps Sub : 1280x720@30fps Mobile Stream : 640x480@15fps
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726
Audio Capability	Audio in / Audio out	Audio in / Audio out	Audio in / Audio out
Power Input	DC12V ±10% / PoE (IEEE 802.3 af)	DC12V ±10% / PoE (IEEE 802.3 af)	DC12V ±15% / PoE (IEEE 802.3af )
Operating Temperature	-25°C~60°C	-25°C~60°C	-25°C~ 60°C
Dimensions / Weight	70(Ø) x 153(H)mm / 391g	70(Ø) x 153(H)mm / 391g	70(Ø) x 153(L)mm / 391g
Ingress Protection	IP68	IP68	IP68

## Specifications

**Fixed-Lens**

### Mini Bullet IP Camera



Resolution	2MP	5MP	8MP
Model Type	Fixed Lens	Fixed Lens	Fixed Lens
Model No.	N6073-A	N6013-A	N656A1
Video Resolution	2MP	5MP	8MP
Sensor	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS
Lens	Fixed Lens 3.6mm, F1.6 Fixed Lens 2.8mm, F1.6 (optional)	Fixed Lens 3.6mm, F1.6 Fixed Lens 2.8mm, F1.6 (optional)	Fixed Lens 2.8mm , F1.6
Field of View (FOV)	D:106°, H:88°, V:44° for 3.6mm D:128°, H:107°, V:57° for 2.8mm	D:107°, H:80°, V:57° for 3.6mm D:129°, H:97°, V:71° for 2.8mm	D:132°, H:110°, V:58°
Min. Illumination	Color : 0.01 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.009 Lux, IR ON : 0 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	30M	30M	30M
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264
Multi-streams	Main : 1920x1080@30fps Sub : 1280x720@30fps Mobile : 640x480@30fps	Main : 2592x1944@20fps Sub : 1280x720@20fps Mobile : 320x240@20fps	Main : 3840x2160@20fps Sub : 1280x720@20fps Mobile Stream : 640x480@20fps
Audio Compression	G.711	G.711	G.711
Audio Capability	Built-in Mic	Built-in Mic	Built-in Mic
Power Input	DC12V ±15% / PoE (IEEE 802.3 af)	DC12V ±15% / PoE (IEEE 802.3 af)	DC12V ±15% / PoE (IEEE 802.3af )
Operating Temperature	-30°C~ 55°C	-30°C~55°C	-30°C~ 55°C
Dimensions / Weight	71(Ø) x 151mm / 375g	71(Ø) x 151mm / 375g	71(Ø) x 151mm / 400g
Ingress Protection	IP66	IP66	IP66

## Specifications

### Bullet Analog Camera



Resolution	2MP	5MP
<b>Model Type</b>	<b>Motorized Lens</b>	<b>Motorized Lens</b>
<b>Model No.</b>	<b>K6071-A</b>	<b>K6011-A</b>
<b>Video Resolution</b>	2MP	5MP
<b>Sensor</b>	1/3" CMOS	1/2.7" CMOS
<b>Lens</b>	Motorized Lens 2.8-12mm, F1.8-3.3	Motorized Lens 2.8-12mm, F1.8
<b>Field of View (FOV)</b>	H:91°~31°, V:48°~17°, D:109°~35°	H:107°~35°, V:54°~20°, D:133°~40°
<b>Min. Illumination</b>	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux
<b>IR Viewable Distance</b>	35M	35M
<b>Signal System</b>	PAL / NTSC	PAL / NTSC
<b>Video Frame Rate (Max.)</b>	AHD / TVI / CVI : PAL@25fps NTSC@30fps CVBS : 960H	AHD/TVI: 5MP@20fps AHD/CVI/TVI: 4MP PAL@25fps NTSC@30fps CVBS: 960H
<b>Power Input</b>	DC12V ±15%	DC12V ±15%
<b>Operating Temperature</b>	-30°C ~ 50°C	-30°C ~ 50°C
<b>Dimensions / Weight</b>	87(Ø) x 242mm / 830g	87(Ø) x 242mm / 830g
<b>Ingress Protection</b>	IP66	IP66

### Fixed-Lens

### Mini Bullet Analog Camera




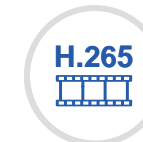


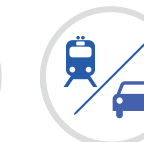


Resolution	2MP	5MP
<b>Model Type</b>	<b>Fixed Lens</b>	<b>Fixed Lens</b>
<b>Model No.</b>	<b>K6072-A</b>	<b>K6012-A</b>
<b>Video Resolution</b>	2MP	5MP
<b>Sensor</b>	1/3" CMOS	1/2.7" CMOS
<b>Lens</b>	Fixed Lens 3.6mm, F2.0	Fixed Lens 3.6mm, F1.6
<b>Field of View (FOV)</b>	H:84°, V:45°, D:99°	H:91°, V:46°, D:110°
<b>Min. Illumination</b>	Color : 0.05 Lux, IR ON : 0 Lux	Color : 0.05 Lux, IR ON : 0 Lux
<b>IR Viewable Distance</b>	20M	20M
<b>Signal System</b>	PAL / NTSC	PAL / NTSC
<b>Video Frame Rate (Max.)</b>	AHD / TVI / CVI : PAL @ 25fps NTSC @ 30fps CVBS : 960H	AHD/TVI: 5MP@20fps AHD/CVI/TVI: 4MP PAL@25fps NTSC@30fps CVBS: 960H"
<b>Power Input</b>	DC12V ±15%	DC12V ±15%
<b>Operating Temperature</b>	-30°C ~ 50°C	-30°C ~ 50°C
<b>Dimensions / Weight</b>	71(Ø) x 138mm / 325g	71(Ø) x 138mm / 325g
<b>Ingress Protection</b>	IP66	IP66

# 07 CUBE IP CAMERA

The Cube IP Camera, crafted from durable metal materials, features built-in high-definition lenses for clear, real-time video footage. Its compact and lightweight design makes it ideal for various applications, including use in automobiles and confined spaces. Additionally, the camera's easy and fast installation contributes to time savings and cost reduction.

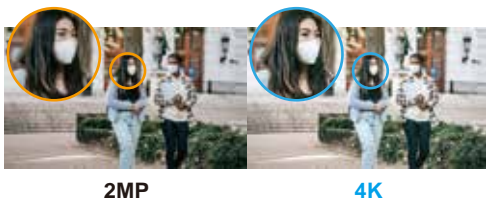
## Key Features

						
<b>Fixed Lens</b>	<b>Compact Design</b>	<b>High Definition Images</b>	<b>H.265 Compression</b>	<b>Better Night Vision</b>	<b>Easy Installation</b>	<b>Support Mobility Type</b>

## Benefits

**4K Resolution**

The Cube IP camera series continually evolves, introducing new specifications to deliver much clearer and vivid images than before. Not only does it provide better video resolution, but it also upgrades AI analysis functions to meet the needs of mid to large-sized businesses and projects.



**Compact Design**

Cube cameras are ideal for use in automobiles and confined spaces due to their compact and lightweight design. Additionally, they are easy and fast to install, significantly reducing installation times and costs.



**H.265 Compression**

All cameras in our lineup support H.265 compression technology, ensuring the maintenance of high-quality images while reducing network bandwidth. This results in significant savings on storage space for video files.



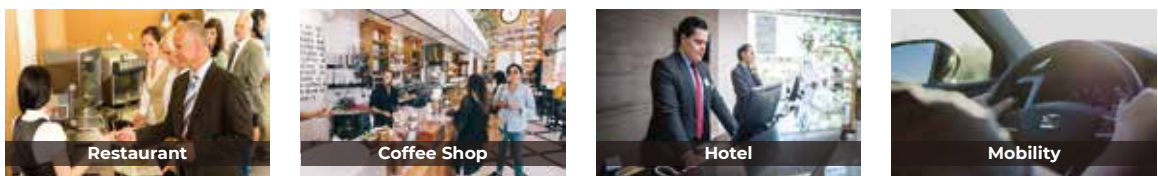
**Micro SD Slots**

Equipped with micro SD slots, the camera can automatically save data, providing a reliable solution in case of network failure or instability.



## High Definition Surveillance

The Cube camera provides an outstanding viewing experience, delivering much clearer and vivid images. It is well-suited to meet the needs of small to medium-sized sites, including retail, commercial locations, and automobiles.





## Specifications

**Fixed-Lens**

### Mini Cube IP Camera



Resolution	2MP	8MP
Model Type	Fixed Lens	Fixed Lens
Model No.	N812B1	N816B1
Video Resolution	2MP	8MP
Sensor	1/2.8" CMOS	1/2.8" CMOS
Lens	Fixed Lens 2.8mm, F2.0	Fixed Lens 2.8mm, F2.0
Field of View (FOV)	D:128°, H:108°, V:58°	D:128°, H:108°, V:58°
Min. Illumination	Color : 0.03 Lux	Color : 0.03 Lux
Storage (Edge Recording)	microSD (256GB max)	microSD (256GB max)
IR Viewable Distance	-	-
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	Main : 1920x1080@30fps Sub : 720x400@30fps MJPEG : 1920x1080@5fps	Main : 3840x2160@30fps Sub : 720x400@30fps MJPEG : 1920x1080@5fps
Audio Compression	G.711, G.726	
Audio Capability	Bulit-in MIC	
Power Input	DC12V ±10%	
Operating Temperature	-10°C~50°C	
Dimensions / Weight	39(W) x 42(L) x 44(H)mm (with bracket) / 300g	
Ingress Protection	-	

# 08 Thermal / Zoom Camera Module

Both of thermal camera module and zoom camera module are provided with lightweight design and ultra-high resolution, which obtain the best image quality under different conditions, it can be integrated into drones to realize various special applications.

## Key Features



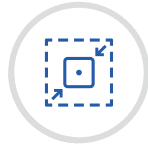
Original Design Tech.



High Definition Images



H.265 Compression



Compact Design



Powerful Optical Zoom  
(Zoom Module Only)



Starlight-Level CMOS  
(Zoom Module Only)

## Benefits



### Compact Design

The compact design of the thermal and zoom camera modules makes them more portable and flexible. Thus, these modules can be widely used in a lot of scenarios, even in specialized fields.



### H.265 Compression

Thermal and zoom camera modules support H.265 compression technology, ensuring the maintenance of high-quality images while reducing network bandwidth.



### Enhanced Night Vision

These zoom camera modules come in different ranges, from 2MP, 4MP, 5MP, up to 8MP. Combined with starlight technology, the video captured by the camera remains excellent even in low-light environments.



### Optical Image Stabilization (OIS)

The zoom camera modules feature a built-in optical image stabilization algorithm, greatly reducing the blur caused by vibration especially under large zoom.

## Specifications

### Thermal Camera Module



Model Type	Ge Lens	
Model No.	D821P1	D821P2
Sensor	Uncooled microbolometer	Uncooled microbolometer
Lens	19mm (35mm optional)	19mm (35mm optional)
Maximum Resolution	320X240	640X480
NETD	<50 mK	<50 mK
Field of View(FOV)	13.7° X 10.3°	22.9° X 17.3°
Minimum Focusing Distance	10M	10M
Video Output	CMOS (BT656 or BT1120), USB(UVC-RGB888, UVC-H.264), RTSP (optional), MIPI for display	
Control I/F	UART	
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Multi-streams	H.265/H.264 : 320x240@30fps MJPEG : 320x240@30fps	H.265/H.264 : 640x480@30fps MJPEG : 640x480@30fps
Power Input	DC 5V +/- 5%	DC 5V +/- 5%
Operating Temperature	-10°C~ 50°C	-10°C~ 50°C
Dimensions / Weight	TBD	TBD

## Specifications

### Zoom Camera Module



Resolution	2MP		5MP	
Optical Zoom	30X		38.5X	
Model No.	D112B1		D115B1	
Video Resolution	2MP		5MP	
Sensor	1/3" CMOS		1/2.8" CMOS	
Optical Zoom	30X Optical Zoom		38.5X Optical Zoom	
Lens	4.3~129mm, F1.6~ F4.7		4.5~135mm, F1.6~F4.4	
Field of View (FOV)	D:72.9°~2.64°, H:65.1°~2.34°, V:38.4°~1.36°		D:2.77° ~ 67.8°, H:2.34° ~ 59.8°, V:1.48° ~ 40.5°	
Min. Illumination	Color: 0.05 Lux		Color: 0.07 Lux	
Storage (Edge Recording)	microSD (256GB max)		microSD (256GB max)	
Video Compression	H.265/H.264/MJPEG		H.265/H.264/MJPEG	
Multi-streams	Main : 1920x1080@60fps Sub : 1280x720@30fps MJPEG :1920x1080@30fps		Main : 2592x1944@60fps Sub : 1920x1080@30fps MJPEG : 2592x1944@30fps	
Audio Compression	G.711, G.726		G.711, G.726	
Audio Capability	Audio in / Audio out		Audio in / Audio out	
Power Input	DC12V ±10%		DC12V ±10%	
Operating Temperature	0°C~ 50°C		0°C~ 50°C	
Dimensions / Weight	109.2(L) x 49.6(W) x 60.7(H) mm / 311g		109.2(L) x 49.6(W) x 60.7(H) mm / 311g	

### Zoom Camera Module



Resolution	8MP		
Optical Zoom	4X	22X	37X
Model No.	D136B1	D146B1	D156B1
Video Resolution	8MP		
Sensor	1/1.8" CMOS		
Optical Zoom	4X Optical Zoom		
Lens	10~40 mm, F1.3~F1.4"		
Field of View (FOV)	D:12.2° ~ 49.8°, H:10.7°~ 42.8°, V:6.1°~ 23.7°		
Min. Illumination	Color: 0.05 Lux		
Storage (Edge Recording)	microSD (256GB max)		
Video Compression	H.265/H.264/MJPEG		
Multi-streams	Main : 3840x2160@30fps Sub : 1920x1080@30fps MJPEG : 1920x1080@15fps		
Audio Compression	G.711, G.726		
Audio Capability	Audio in / Audio out		
Power Input	DC12V ±10%		
Operating Temperature	0°C~ 50°C		
Dimensions / Weight	TBD		

# Accessories

## 7 inch IR Speed Dome

Model No. :  
N516B1, N515B1, N515B2, N512B1



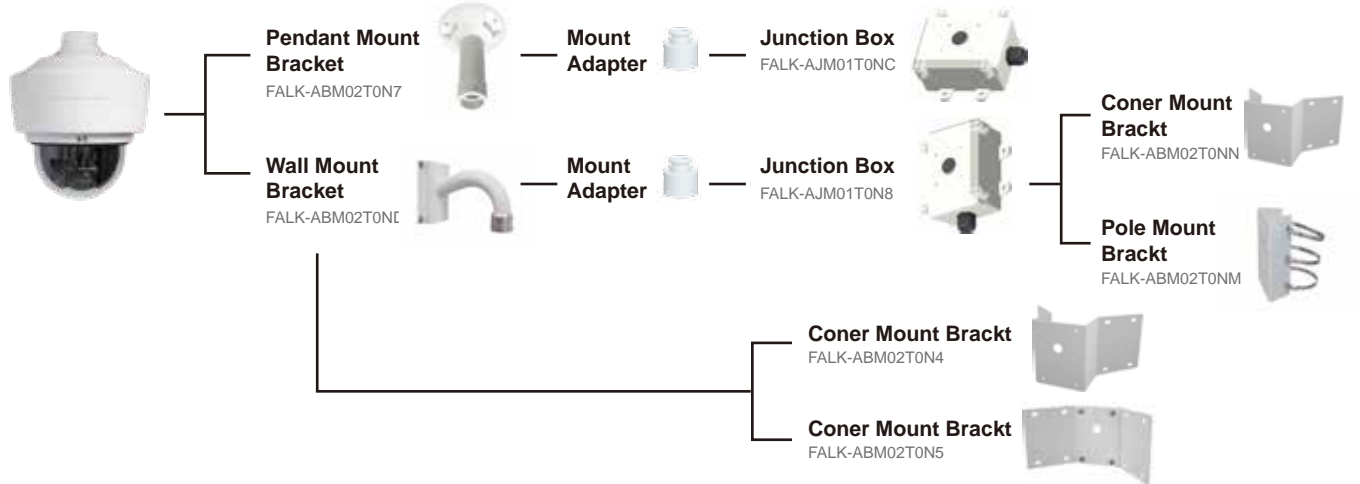
## 7 inch IR Speed Dome

Model No. :  
N5049-BE, N5079-BE



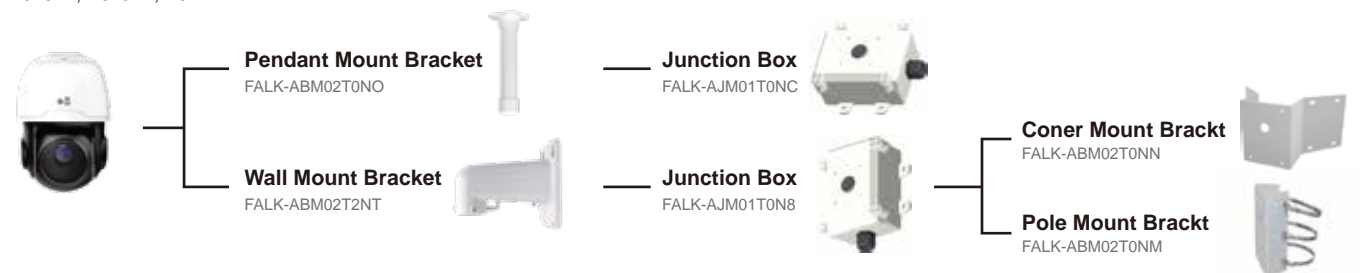
## 6 inch Speed Dome

Model No. :  
N5012-BE



## 5 inch IR Speed Dome

Model No. :  
N526B1, N525B1, N522B1





# Accessories

## Ceiling Fisheye

Model No. :  
N417P1-C, N417P1-CIR

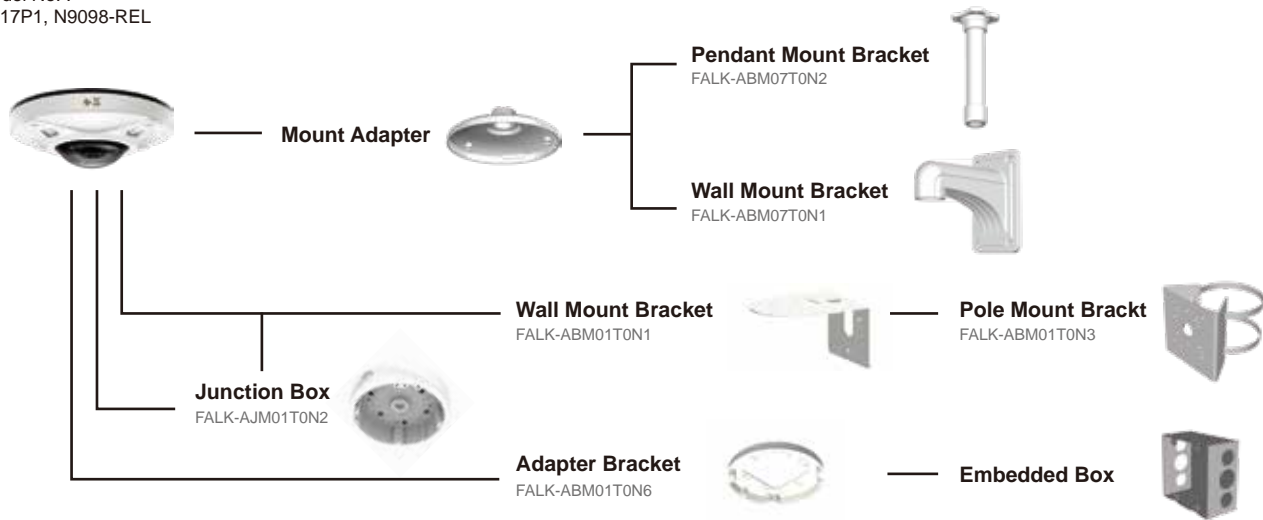
## Surface Fisheye

Model No. :  
N417P1, N9098-REL



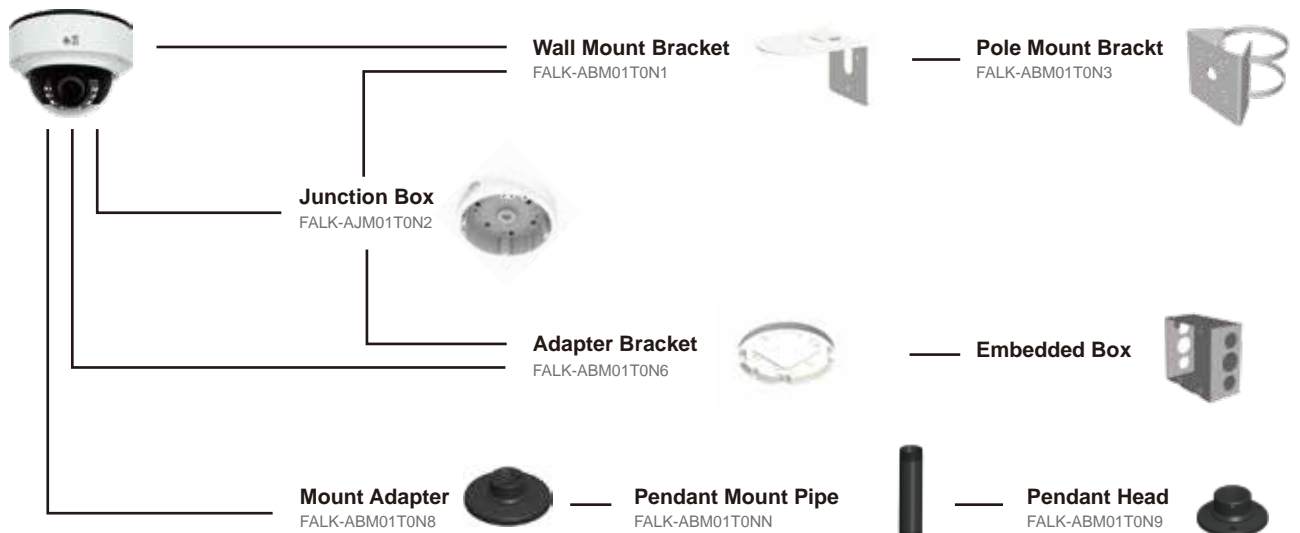
## Surface Fisheye

Model No. :  
N417P1, N9098-REL



## Dome

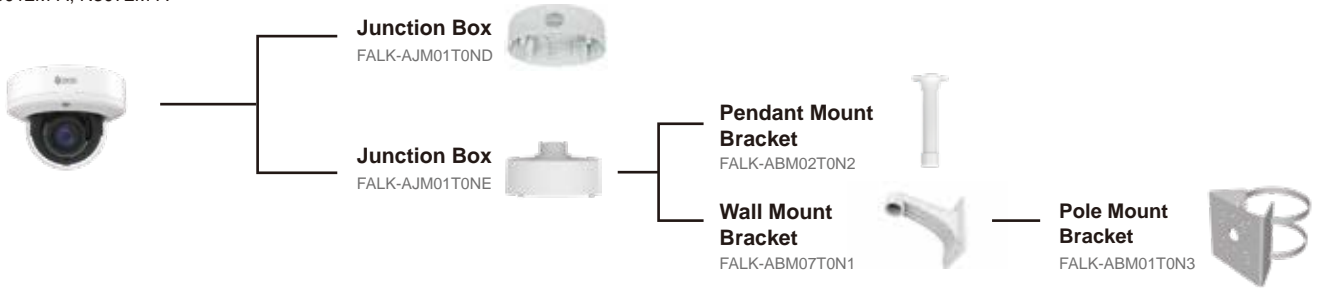
Model No. :  
N336P1



## Accessories

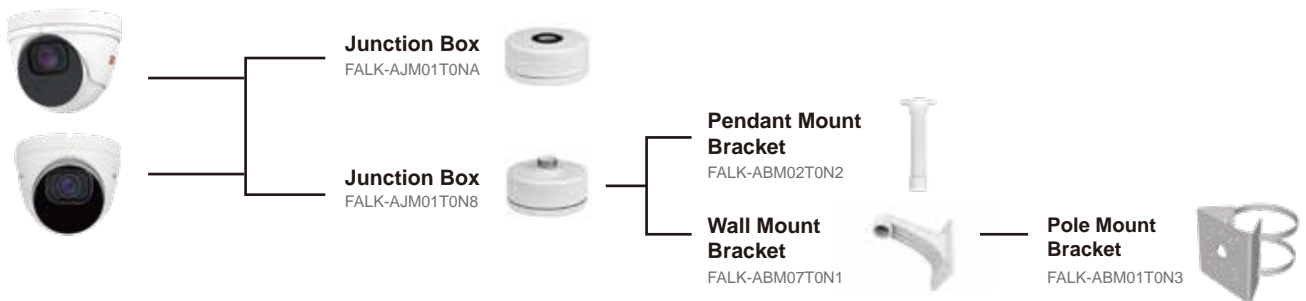
### Dome

Model No. :  
N3012M-A, N3072M-A



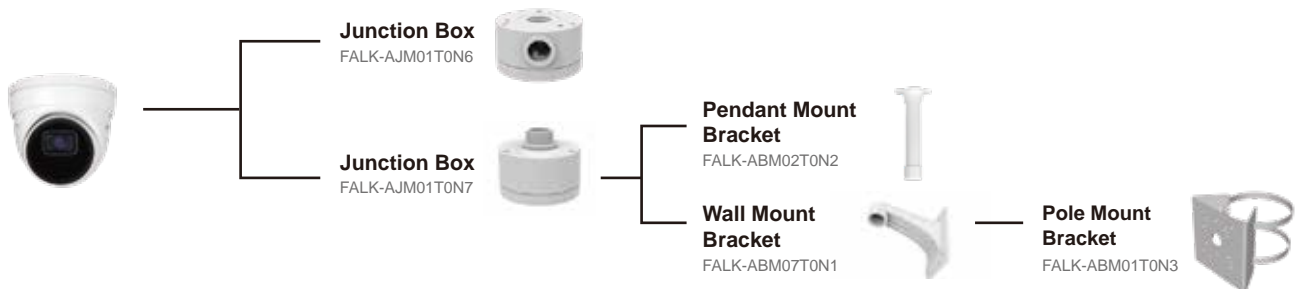
### Turret

Model No. :  
N9091M-BE, N9041M-BE, N9071M-BE, N9014M-A, N9074M-A



### Turret

Model No. :  
N396B1, N395B1, N392B1, N396A1, N9014-A, N9074-A, K9012-A, K9072-A



### Bispectral Explosion-Proof

Model No. :  
B636E1, B636E2, B635E1, B635E2, B634E1, B634E2



## Accessories

### Explosion-Proof

Model No. :  
N6099M-BEX, N6049M-BEX, N6079M-BEX



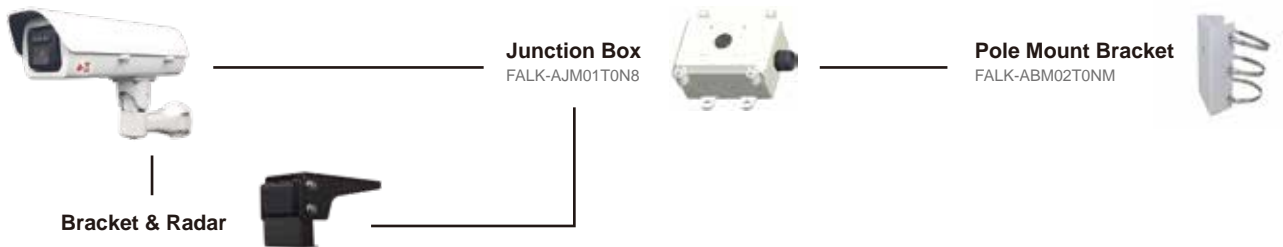
### Bispectral Tube

Model No. :  
B116P1, B116P2, B115P1, B115P2, B114P1, B114P2, B112P1, B112P2



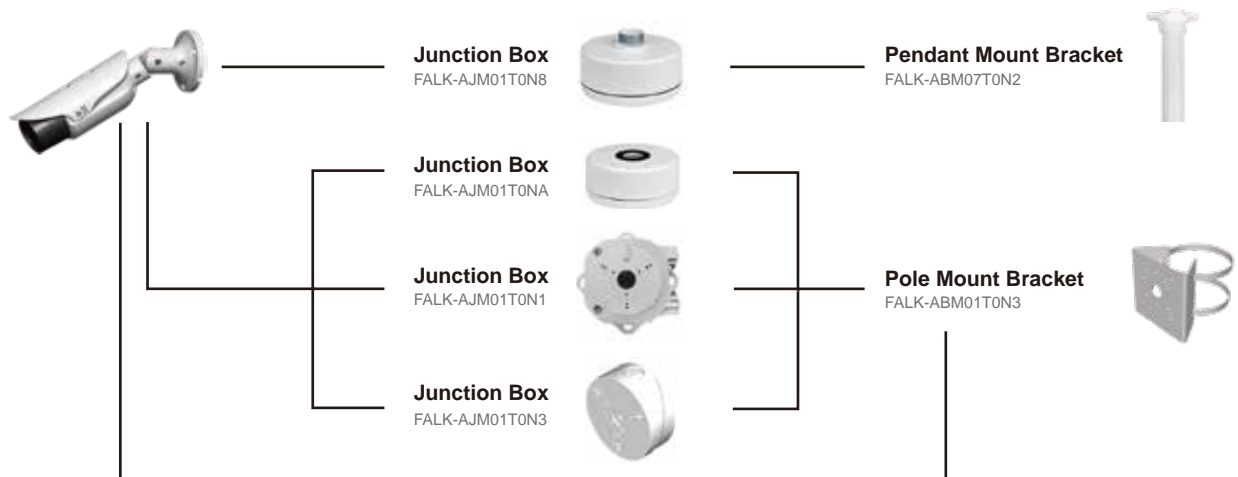
### Bullet

Model No. :  
N6092N-BE, N6042M-BE, N6072M-BE



### Bullet

Model No. :  
N6094M-BE, N6044M-BE, N6074M-BE



## Accessories

### Thermal Bullet

Model No. :  
T6051, T6061



### Bullet

Model No. :  
N6073M-BE, N601BM-EL, N6014M-A, N6074M-A, K6011-A, K6071-A



### Thermal Mini Bullet

Model No. :  
T6078-BE, T6079-BE

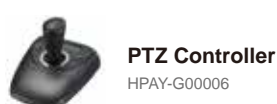


### Mini Bullet

Model No. :  
N646B1, N645B1, N642B1, N656A1, N6013-A, N6073-A



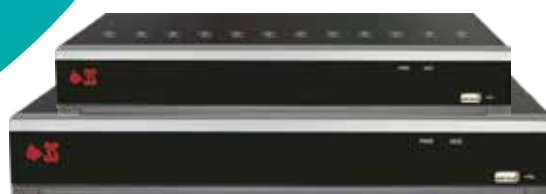
### PTZ Controller



The product pictures are for reference only. Actual product specifications (including but not limited to appearance, color, and material) may vary.



# VIDEO RECORDER



01. **Embedded NVR**

02. **Embedded XVR**



# 01 4, 8, 16, 32CH EMBEDDED NVR

The latest generation of 3S NVRs ensures exceptional image quality and supports H.265 compression technology, reducing storage space and bandwidth requirements. All models support automatic firmware upgrades, ensuring the high reliability of the system. Moreover, 3S NVRs offer flexible scalability, allowing seamless device expansion when users need to upgrade their equipment for larger video recording capacities.



## Benefits



### High Performance 4K Output

The 3S NVR delivers exceptional image quality, providing 4K video output capabilities for real-time video recording, instant playback, and remote access.



### H.265 Compression

The 3S NVR utilizes the latest H.265 codec to efficiently reduce network bandwidth and storage space, resulting in faster and enhanced image quality.



H.264

H.265 HEVC



### Multiple Event Search & Bookmark

Users can search for single or multiple events and triggered alerts. The bookmark function allows users to mark specific points on the timeline for quick and easy event retrieval.



### Support Fisheye Dewarp Display

3S NVR offers live-view and playback for fisheye network camera, providing support for fisheye dewarp display modes for a comprehensive surveillance experience.



### Remote Monitoring & Notification

3S NVR supports remote viewing through web browsing and a mobile app. Users can establish a remote connection on a personal computer or mobile device to access live viewing, playback, search recorded video, and camera control.



### RAID Supports (RAID 0,1,5) Optional

RAID is an ideal choice for enhancing the security and integrity of data. It safeguards data from potential damage or loss due to disk failure.



## Specifications

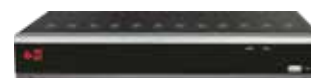
### Embedded NVR (Network Video Recorder)



Model Type	32CH	
SATA HDD	4 x SATA HDD	8 x SATA HDD
Model No.	RN403211	RN803211
Video		
Video Format	H.264/H.265 \ H.264+/H.265+	
Video Input	32CH	
Video Output	HDMI:1 (Max.:3840x2160) HDMI:1 (Max.:1920x1080/EDID) Async out	HDMI:1 (Max.:3840x2160) HDMI:1 (Max.:1920x1080/EDID) Async out
Decoding Capability	12MP:30fps, 8MP:120fps, 4MP:240fps, 2MP:480fps	12MP:30fps, 8MP:120fps, 4MP:240fps, 2MP:480fps
Audio		
Audio In / Out	Audio in x1, Audio out x1	
Recording and Playback		
Compression	Audio: G.711a, G.711u Video : H.264 / H.265 \ H.264+ / H.265+	Audio: G.711a, G.711u Video : H.264 / H.265 \ H.264+ / H.265+
Recording Resolution	12MP / 8MP / 5MP / 4MP / 3MP / 1080p / 720p	12MP / 8MP / 5MP / 4MP / 3MP / 1080p / 720p
Synchronous Playback	Max. 16CH	
Live View / Playback Resolution	1080P:480fps	
Remote Client Software		
Support Software	3S Mobile Connect (iOS, Android)	
Browser	Chrome, Edge, Firefox	
POE Interface		
Interface	NA	
Standard	NA	
External Interface		
SATA	SATA HDD x 4 Up to 12TB capacity for each disk	SATA HDD x 8 Up to 12TB capacity for each disk
Network Interface	2 port RJ45 100/1000 Base-T	
Serial Interface	RS485 x 1	
USB Interface	USB2.0 x 1(front), USB3.0 x 1 + USB2.0 x 1(rear)	USB2.0 x 1(front), USB3.0 x 1 + USB2.0 x 1(rear)
Alarm I/O	Alarm in x 16, Alarm out x 1	
General		
Power Supply	12V / 5A	
Power Consumption (Excluding Hard Disk)	8W	
Dimensions	378(W) x 326(L) x 66(H)mm	440(W) x 460(L) x 89(H)mm
Weight	2,300g (w/o Hard Disk)	6,610g (w/o Hard Disk)
Working Temperature	0°C~50°C	

## Specifications

### Embedded NVR (Network Video Recorder)



Model Type	4CH PSE	4CH	8CH PSE	8CH	16CH PSE	16CH
SATA HDD	1 x SATA HDD		1 x SATA HDD		2 x SATA HDD	
Model No.	R10042-B		R10082-B		R20162-B	
<b>Video</b>						
Video Format	H.264 / H.265					
Video Input	4CH		8CH		16CH	
Video Output	HDMI:1 (Max.:3840x2160) VGA:1 (Max.:1920x1080)		HDMI:1 (Max.:3840x2160) VGA:1 (Max.:1920x1080)		HDMI:1 (Max.:3840x2160) VGA:1 (Max.:1920x1080)	
Decoding Capability	4K: 30fps, 4MP: 62fps, 2MP: 120fps		4K: 45fps, 4MP: 90fps, 2MP: 180fps		4K: 45fps, 4MP: 90fps, 2MP: 180fps	
<b>Audio</b>						
Audio In / Out	Audio in x 1, Audio out x 1		Audio in x 1, Audio out x 1		Audio in x 1, Audio out x 1	
<b>Recording and Playback</b>						
Compression	Audio: G.711a Video : H.264 / H.265		Audio: G.711a Video : H.264 / H.265		Audio: G.711 / G.726 Video : H.264 / H.265	
Recording Resolution	8MP, 5MP, 3MP, 2MP(1080P), 1.3MP(960P), 1.0MP(720P)					
Synchronous Playback	4CH		8CH		Max. 16CH playback	
Live View / Playback Resolution	8MP		8MP		8MP	
<b>Remote Client Software</b>						
Support Software	3S Mobile Connect (iOS, Android)					
Browser	Chrome, Edge, Firefox					
<b>PoE Interface</b>						
Interface	4 port RJ45 10/100 Mbps	NA	8 port RJ45 10/100 Mbps	NA	16 port RJ45 10/100 Mbps	NA
Standard	IEEE 802.3af	NA	IEEE 802.3af	NA	IEEE 802.3af	NA
<b>External Interface</b>						
SATA	3.5" SATA I/II/III HDD x 1 Up to 10TB capacity for each disk		3.5" SATA I/II/III HDD x 1 Up to 10TB capacity for each disk		3.5" SATA I/II/III HDD x 2 Up to 10TB capacity for each disk	
Network Interface	1 port RJ45 10/100 Base-T		1 port RJ45 100/1000 Base-T		1 port RJ45 100/1000 Base-T	
Serial Interface	RS485 x1		RS485 x1		RS485 x1	
USB Interface	USB2.0 x 1 (front), USB2.0 x 1 (rear)		USB2.0 x 1 (front), USB2.0 x 1 (rear)		USB2.0 x 1 (front), USB2.0 x 1 (rear)	
Alarm I/O	Alarm in x 4, Alarm out x 1		Alarm in x 8, Alarm out x 1		Alarm in x 8, Alarm out x 1	
<b>General</b>						
Power Supply	DC48V / 1.2A		DC48V / 1.5A		DC48V / 3.75A	
Power Consumption (Excluding Hard Disk)	5W	4W	6W	4W	8W	4W
Dimensions	300(W) x 227(L) x 53(H)mm		300(W) x 227(L) x 53(H)mm		378(W) x 340(L) x 50(H)mm	
Weight	1,900g (w/o Hard Disk)		2,300g (w/o Hard Disk)		2,800g (w/o Hard Disk)	
Working Temperature	0°C~40°C		0°C~40°C		0°C~40°C	

# 02

## 4, 8, 16, 32CH EMBEDDED XVR

3S has introduced a new line of embedded XVRs, characterized by high performance, quality, reliability, and ease of setup to cater to diverse video recording applications. The intuitive and user-friendly UI not only enhances the overall user experience but also allows for easy operation and configuration.

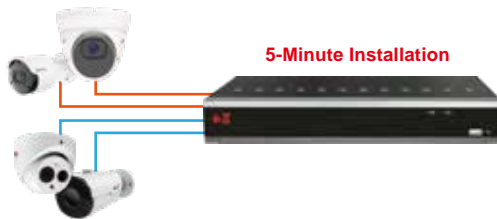


### Benefits



#### Plug-and-Play Functionality

The 3S XVR is equipped with versatile interfaces and offers plug-and-play functionality, allowing users to complete the installation rapidly in a short time.



#### Quick Camera Configuration

The 3S XVR has high compatibility, supporting all ONVIF conformant IP cameras. Users can easily complete camera configuration through the auto-search function.



#### Intuitive & User-Friendly GUI

The intuitive interface design and simple configuration not only make video monitoring easy but also optimize the user experience.



#### Feature-Rich Video Management

Users can log in to set up customizable channel layouts, timelines, video recording modes, system administrator authority, and file management for a smarter and smoother video recording.



#### Dual Stream Recording

Support main-stream and sub-stream recording simultaneously. This feature addresses varying bandwidth stream requirements for local and remote transmission.



#### Cost-Savings

3S XVR provides plug-and-play functionality, transmitting power and data through Ethernet or coaxial cables. It offers a cost-effective solution for converting existing coax-based analog systems into IP systems.



## Specifications

### Embedded XVR (Hybrid Video Recorder)



<b>Model Type</b>	<b>32CH</b>
<b>SATA HDD</b>	<b>4 x SATA HDD</b>
<b>Model No.</b>	<b>RX403211</b>
<b>Video</b>	
<b>Analog Video Input</b>	32CH
<b>IP Video Input</b>	4CH (Only IP up to 36CH)
<b>Video Format</b>	H.265 / H.264
<b>Video Input</b>	HDTVI / AHD / CVI / CVBS / IP
<b>Video Output</b>	BNC x 1(704x576), VGA x 1(Max.: 1920x1080), HDMI x 1(Max.:3840x2160)
<b>Audio</b>	
<b>Audio Format</b>	G.711a
<b>Audio In / Out</b>	Audio in x 8, Audio out x 1
<b>Recording and Playback</b>	
<b>Frame Rate (Main-stream)</b>	Analog : 5MP-Lite:15fps (each ch) IP : PAL:25fps(each ch)/NTSC: 30fps(each ch)
<b>Playback</b>	5MP-lite: 240fps (Max. 16CH playback)
<b>Remote Client Software</b>	
<b>Support Software</b>	3S Mobile Connect (iOS, Android)
<b>Browser</b>	Chrome, Edge, Firefox
<b>External Interface</b>	
<b>SATA</b>	SATA HDD x 4 (Up to 10TB capacity for each disk)
<b>Network Interface</b>	2 port RJ45 100/1000 Base-T
<b>Serial Interface</b>	RS485 x1
<b>USB Interface</b>	USB2.0 x 1 (front), USB3.0 x 1 (rear)
<b>Alarm In / Out</b>	Alarm in x 16, Alarm out x 1
<b>General</b>	
<b>Power Supply</b>	DC12V / 5A
<b>Dimensions</b>	378(W) x 326(D) x 66(H)mm
<b>Weight</b>	2,300g (w/o Hard Disk)
<b>Working Temperature</b>	-10°C~50°C



## Specifications

### Embedded XVR (Hybrid Video Recorder)



Model Type		4CH	8CH	16CH
SATA HDD		1 x SATA HDD	1 x SATA HDD	2 x SATA HDD
Model No.		X10042-B	X10082-B	X20162-B
<b>Video</b>				
Analog Video Input		4CH	8CH	16CH
IP Video Input		2CH (only IP up to 6CH)	4CH (only IP up to 12CH)	4CH (only IP up to 20CH)
Video Format		H.265 / H.264		
Video Input		HDTVI / AHD / CVI / CVBS / IP		
Video Output		BNC x 1 (704x576), VGA x 1 (Max.: 1920x1080), HDMI x 1 (Max.: 3840x2160)		
<b>Audio</b>				
Audio Format		G.711a		
Audio In / Out		Audio in x 4, Audio out x 1	Audio in x 8, Audio out x 1	Audio in x 16, Audio out x 1
<b>Recording and Playback</b>				
Frame Rate	Main-stream	Analog: 5MP-Lite: 20fps (each ch) IP: PAL: 25fps (each ch) / NTSC: 30fps (each ch)	Analog: 5MP-Lite: 15fps (each ch) IP: PAL: 25fps (each ch) / NTSC: 30fps (each ch)	Analog: 5MP-Lite: 12fps (each ch) IP: PAL: 25fps (each ch) / NTSC: 30fps (each ch)
	Sub-stream	PAL: 704x576: 10fps (each ch) / NTSC: 704x480: 10fps (each ch)	PAL: 704x576: 10fps (each ch) / NTSC: 704x480: 10fps (each ch)	PAL: 704x576: 10fps (each ch) / NTSC: 704x480: 10fps (each ch)
Playback		5MP-lite:80fps (Max 4CH playback)	5MP-Lite: 90fps (Max. 6CH playback)	5MP-Lite: 90fps (Max. 8CH playback )
<b>Remote Client Software</b>				
Support Software		3S Mobile Connect (iOS, Android)		
Browser		Chrome, Edge, Firefox		
<b>External Interface</b>				
SATA		3.5" SATA I/II/III HDD x 1 Up to 10TB capacity for each disk	3.5" SATA I/II/III HDD x 1 Up to 10TB capacity for each disk	3.5" SATA I/II/III HDD x 2 Up to 10TB capacity for each disk
Network Interface		1 port RJ45 10/100 Base-T	1 port RJ45 10/100 Base-T	1 port RJ45 100/1000 Base-T
Serial Interface		RS485 x1		
USB Interface		USB2.0 x 1 (front), USB2.0 x 1 (rear)	USB2.0 x 1 (front), USB2.0 x 1 (rear)	USB2.0 x 1 (front) , USB3.0 x 1 (rear)
Alarm In / Out		Alarm in x 4, Alarm out x 1	Alarm in x 8, Alarm out x 1	Alarm in x 16, Alarm out x 1
<b>General</b>				
Power Supply		DC12V / 2A	DC12V / 2A	DC12V / 5A
Dimensions		300(W) x 227(D) x 53(H)mm	300(W) x 227(D) x 53(H)mm	378(W) x 340(D) x 50(H)mm
Weight		1,680g (w/o Hard Disk)	2,040g (w/o Hard Disk)	3,700g (w/o Hard Disk)
Working Temperature		0°C~40°C	0°C~40°C	0°C~40°C



# ENCODER & DECODER



01. Encoder

02. Decoder

# 01

## 8CH, 16CH VIDEO ENCODER

3S video encoders provide a cost-effective solution for applications utilizing both analog and IP cameras. These encoders are ONVIF compliant and come in 8-channel and 16-channel models. They convert analog video signals into digital format, facilitating the integration of existing cameras into modern IP-based surveillance systems. Easily integrate HD analog cameras with contemporary network devices without the need to upgrade existing camera systems.

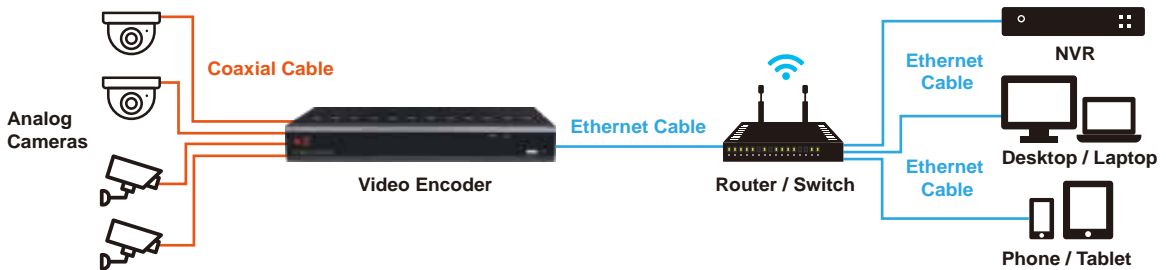


### Benefits



#### Analog to IP Migration

Video Encoders serve as a bridge, seamlessly integrating older CCTV security cameras into modern IP security camera systems. By encoding analog video into digital data streams, they ensure compatibility with contemporary digital surveillance systems. This solution is perfect for users looking to transition their equipment to an IP platform.



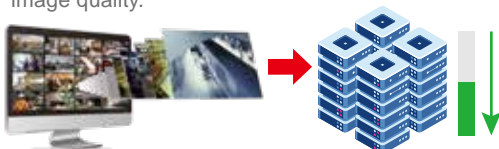
#### Cost-Savings

The 3S video encoder provides a cost-effective solution for applications utilizing both analog and IP cameras. With a video encoder, users can enjoy the advantages of IP technology without incurring additional costs. This allows users to continue using their original analog CCTV equipment and coaxial cables.



#### Reduced Bandwidth and Storage

The encoder supports multiple codecs, including H.265, H.264, and MJPEG, allowing for multiple streams simultaneously. The H.265 video compression format significantly reduces bandwidth and storage requirements without compromising image quality.



#### Remote Monitoring

Encoders convert analog video signals into digital streams, enabling remote access and monitoring through web interfaces or surveillance software. This capability enhances the flexibility of surveillance systems.



## Specifications

### Encoder



Model Type	8CH	16CH
Model No.	S8072-B	SG072-B
<b>Analog Video Input</b>		
Cameras	8	16
Connector	8CH BNC / 16CH BNC	
CVBS Support	PAL / NTSC	
Analog Support	TVI / CVI / AHD	
Analog Resolution	5MP Lite, 4MP Lite, 3MP, 1080P 30/25, 720P 30/25	
Supported Frame Rate	5MP Lite@12fps ; 4MP Lite@15fps ; 3MP@18fps ; 1080P / 720P / VGA / WD1 / 4CIF / CIF@30/25fps	
Audio Over Coaxial (AOC)	Yes (TVI Only)	
<b>Encoded Video Streaming</b>		
Video Compression	H.265 / H.264	
Encoding Capacity	1920x1080@240fps	
Stream Client Capacity	64 (32 Main + 32 Sub)	
Total Output Bandwidth	200 Mbps	
Image Setting	Rotation: 0-,90-,180-,270, Mirroring, Flip, Color, Brightness, Contrast	
Advanced Image	Privacy Mask, Motion Detection	
Edge Record	Yes ( 3.5" SATA x 2)	
<b>Integration</b>		
ONVIF Support (Device)	Profile S, G, T	
3S Proprietary	Yes (HDRC, HDCC, ASCM)	
Camera Control	UTC Protocol, PTZ control via RS-485	
Remote Viewer	Web (Edge/Chrome/Firefox), Mobile APP (Android/iOS)	
Decoder Group	Master, Slave, Group	
<b>Local Display</b>		
Video Output	HDMI: 3840x2160@30fps, 1920x1080@60FPS, VGA: 1920x1080@60fps	
CVBS Output	BNC (1.0 Vp-p, 75 ohm) / NTSC (704x480), PAL (704x576)	
Display Layout	1 / 4 / 6 / 8 / 9 / 16	
<b>Network</b>		
Support Protocols	IPv6, IPv4, HTTP, UDP, TCP, ICMP,IGMP, ARP, DHCP, NTP, SMTP, FTP, UPnP,PPPoE, DNS, DDNS, RTSP, RTP, RTCP, ONVIF	
Cyber Security	HTTPS, IEEE 802.1X, SFTP	
<b>General</b>		
Power Input	DC 12V	
Power Consumption	Max. 18W	Max. 24W
External Interface	Network: RJ45 10/100/1000Mbps Ethernet Audio: RCA Line In x 1, RCA Line Out x 1 Power: DC Input, terminal block USB Type A: USB 2.0 x 1, USB 3.0 x 1	Serial: RS232 x 1, RS485 x 1 Display: HDMI Type A x 1, VGA x 1 Alarm I/O: 4 In, 1 Out
Operating Temperature	-10°C~50°C	
Storage Temperature	-20°C~60°C	
Humidity	10% ~ 90% (Non-condensing)	
Dimensions	208.7(W) x 300(L) x 48(H)mm	295.7(W) x 300(L) x 48(H)mm
Weight	1,500g (w/o Hard Disk)	

# 02 32CH DECODER

With plug-and-play installation, the 3S decoder supports both PoE and DC power, ensuring fast and cost-effective installation. This flexible device can be used independently or presented as part of a large TV wall. Users can freely configure different display modes to monitor various application scenarios.



## Benefits



### 4K Display Resolution

The 3S decoder is purpose-built for the deployment and management of video surveillance systems. It excels in decoding capabilities, providing the ability to display 1080P video at an ultra-low energy consumption rate of up to 240 frames per second. It can serve as a direct replacement for a PC and supports a maximum 4K screen resolution through the HDMI output interface.



### Rich I/O interface

The 3S decoder features a rich I/O interface, providing seamless connectivity for various devices. With 2x USB slots and 2x HDMI output interfaces for decoding, it ensures versatile options for connections. Additionally, it supports both PoE and DC power, facilitating fast and cost-effective installation.



Front Side



Back Side



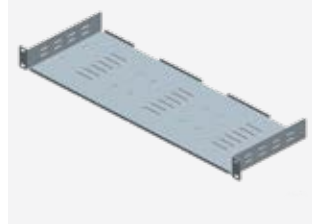
### Installation-Friendly & Flexible Expansion

The decoder is designed for easy installation and user-friendly setup. Its compact design allows for flexible mounting options, supporting both wall and side installations to meet environmental requirements. Furthermore, it can be utilized with a dedicated bracket for combined applications.

Note: The decoder includes rack mount ears for added convenience.



#### Optional : Bracket for Three Decoders





## Specifications

### Decoder



<b>Model Type</b>	<b>32CH</b>
<b>Model No.</b>	<b>B20321-B</b>
<b>Local Display</b>	
<b>Video Output</b>	HDMI x 2
<b>Display Resolution</b>	HDMI 1: 3840x2160@30fps, HDMI 2: 1920x1080@60fps Free adjustment under 32CH by preference
<b>Display Layout</b>	Preset: 1+1, 4+4, 9+9, 10+10, 16+16, 16+0, 24+0, 32+0
<b>Video</b>	
<b>Video Compression</b>	H.265 / H.264
<b>Decoding Capability</b>	1920x1080 @ 240fps
<b>Steaming Connectivity</b>	1024(32x32) (Unlimited with HDCC or ASCM)
<b>Simultaneously Streaming</b>	32CH
<b>Audio</b>	
<b>Advanced Video Setting</b>	Privacy Mask, OSD
<b>Audio Format</b>	G.711, G.726
<b>2-Way Audio</b>	Line input
<b>Output</b>	HDMI (Stereo)
<b>Integration</b>	
<b>Camera Integration</b>	ONIVF Profile S, T, M
<b>Remote Control</b>	HDCC, ASCM, Web (Edge/Chrome/Firefox)
<b>Decoder Group</b>	Master, Slave, Group
<b>Network</b>	
<b>Support Protocols</b>	IPv6, IPv4, HTTP, UDP, TCP, ICMP,IGMP, ARP, DHCP, NTP, SMTP, FTP, UPnP,PPPoE, DNS, DDNS, RTSP, RTP, RTCP
<b>Cyber Security</b>	HTTPS, IEEE 802.1X
<b>General</b>	
<b>Power Input</b>	DC 12V
<b>Power Consumption</b>	Max. 15W
<b>External Interface</b>	Network: RJ45 10/100/1000Mbps Ethernet      USB Type A: USB 2.0 x 1, USB 3.0 x 1 Audio: 3.5mm line in      Serial: RS485 x 1 Power: DC Input, terminal block      Display: HDMI Type A x 2
<b>Oeprating Temperature</b>	-10°C~50°C
<b>Storage Temperature</b>	-20°C~60°C
<b>Humidity</b>	10% ~ 90% (Non-condensing)
<b>Dimensions</b>	40.5(H) x 145(W) x 155.8(L)mm
<b>Weight</b>	640g



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*If you want to get more information about 3S products, quotation and business cooperation. Please contact us !*

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**2024 / 04 Ver. 01**