



ASP204-5G 8MP 5G/4G Ultra HD Smart Surveillance Camera



Professional Specification Sheet

Model: ASP204-5G 8.0MP

Product Category: Enterprise-Grade 5G/4G Ultra HD Smart Surveillance Solution

Product Overview

The ASP204-5G 8MP is a cutting-edge surveillance camera that combines 5G/4G connectivity with Ultra HD 8.0MP resolution, delivering crystal-clear 4K video surveillance with global mobile network support. Engineered for professional applications, this camera features advanced AI detection capabilities, comprehensive remote monitoring, and seamless integration with existing security infrastructures.

Key Features & Advantages

Global Network Connectivity

- **5G/4G LTE Global Network Support** - Seamless mobile connectivity with plug-and-play installation



- **64-Channel CMS Software** - Free AIRLINK Central Management System for comprehensive monitoring

Superior Image Quality

- **Ultra HD 8.0MP Resolution** - Crystal-clear 4K (3840×2160) video recording
- **Powerful MStar Chipset** - Dual-core ARM Cortex-A7 processor for fast processing

Intelligent Security Features

- **Smart Motion Detection & Alerts** - Real-time push notifications to mobile devices
- **Smart Defense Modes** - Intrusion detection, area entry/exit monitoring, and invasion detection
- **AI Human Recognition & Tracking** - Automatic human detection and tracking capabilities

Storage & Monitoring

- **Massive Storage Capacity** - Up to 512GB TF card support with cloud storage integration
- **Remote Monitoring** - View and playback from anywhere via VideoLink mobile application
- **Two-Way Audio & Voice Broadcast** - Real-time communication and alert broadcasting
- **RTMP Support** - Ideal for real-time video streaming applications

Application Scenarios

Security & Surveillance

Real-time HD video streaming with minimal latency provides rapid response capabilities and detailed situational awareness for security personnel.



Smart Cities

Perfect for traffic monitoring, infrastructure surveillance, and parking management systems. Seamlessly integrates with IoT sensors and municipal management systems.

Remote Monitoring

Ideal for construction sites, oil rigs, power stations, and other remote facilities. Enables high-quality remote inspections and maintenance operations.

Public Safety & Emergency Response

Provides rapid video relay to command centers during emergencies, enhancing coordination across public safety infrastructure networks.

Technical Specifications

Camera System

Image Sensor: 1/2.8" Sony415 CMOS, Starlight technology, Progressive Scan

Resolution: 8.0MP (3840×2160)

Low Light Performance: Color 0.001Lux@F1.2 / Black & White 0.0001Lux@F1.2

Lens Options: Fixed focus (3.6mm~12mm) or Motorized zoom (2.8–12mm, 6–22mm)

Night Vision: IR LEDs with up to 100m effective range

Scanning Mode: Progressive scanning

Day/Night Switch: IR-CUT dual optical filters with automatic switching

Video Performance

Video Compression: H.265+/H.265/H.264 dual stream, AVI format

Frame Rate: Up to 8MP@20fps, 1080p@30fps

Bitrate: 32Kbps~30Mbps variable, supports CBR/VBR

Wide Dynamic Range: 128dB WDR

Signal-to-Noise Ratio: 50dB

3D Digital Noise Reduction: 3D-DNR

Shutter Speed: 1/(10-10000)s



5G/4G Network Specifications

5G Bands:

- Sub-6 TDD-NR: N38/41/77/78/79
- Sub-6 FDD-NR: N1/3/5/8/20/28

LTE Bands:

- FDD Band: B1/3/5/7/8/19/20/28
- TDD Band: B38/40/41/42/43

WCDMA Bands: Band 1/3/5/8/19

Transmission Rates:

- NSA: 2.1Gbps(DL) / 450Mbps(UL)
- NR ENDC: 4.1Gbps(DL) / 525Mbps(UL)
- LTE: 2.0Gbps(DL) / 150Mbps(UL)
- WCDMA: 42.2Mbps(DL) / 5.76Mbps(UL)

Security: WEP, WPA/WPA2, WPA-PSK/WPA2-PSK

System Hardware

Processor: MStar SSC338 Dual-core ARM Cortex-A7 @ 1GHz

Memory: 2GB DDR3 built-in

Storage: TF card up to 512GB, cloud storage supported

Power Supply: DC 12V±10% / POE (optional)

Power Consumption: 1W (IR off) / 9.5W (IR on)

Network Protocols

Supported Protocols: HTTPS/HTTP/RTSP/FTP/PPPOE/DHCP/DDNS/NTP/ONVIF 2.6

Private Protocol: Hikvision private protocol support

Wi-Fi Chipset: MTK

Network Features: VPN, LAN, Netdog support



AI Intelligence Features

Motion Detection: Smart motion detection with shadow alarm

AI Recognition: Human detection and recognition with automatic tracking

Area Defense: Intrusion detection, area entry/exit monitoring

Privacy Masking: 4 privacy mask zones

Network Alerts: Cable disconnection, IP address conflict alerts

Audio Features

Two-Way Audio: Real-time voice communication

Voice Broadcast: Alert broadcasting functionality

Audio Compression: Integrated audio transmission support

Environmental Specifications

Operating Temperature: -40°C to 85°C

Relative Humidity: ≤95% (non-condensing)

Waterproof Rating: IP-rated protection

Lightning Protection: Complies with GB/T17626.5 and IEC61000-4-5 standards

P2P Support: Yes

Software Features

Mobile Application

VideoLink Mobile App

- Real-time video viewing and playback
- Remote configuration and control
- Push notifications and alerts
- Multi-device synchronization

Management System

AIRLINK Central Management System (Free)



- 64-channel management capability
- Web-based configuration interface
- Complete SDK development package
- Multi-site management support

Advanced Functions

- OSD (On-Screen Display) support
- JPEG capture functionality
- Mobile detection alarm center
- Pop-up reminders and linkage functions

Package Contents

- ASP204-5G 8MP Camera Unit × 1
- Power Adapter × 1 Option

Technical Support & Warranty

Product Warranty: 2-year limited warranty

Technical Support: 24/7 online technical support

Software Updates: Free firmware update service

Documentation: Complete installation and configuration guides

Compliance & Certifications

Lightning Protection: GB/T17626.5, IEC61000-4-5 compliant

Network Standards: ONVIF 2.6 certified

Video Compression: H.265+/H.265/H.264 compliant

Connectivity: 5G/4G/LTE global standards compliant



Note: Specifications are subject to change without notice. Actual product performance may vary based on network conditions and environmental factors.

For technical inquiries and support, please contact our technical support team or visit our official website for the latest product information and updates.