

ASP204-4G-12.0MP

12MP 4G AI Bullet Camera with Built-in VPN

Taiwan-engineered · MStar platform · Sony IMX577 Starlight sensor · H.265+



12MP

4000×3000 @ 25 fps, 4K @ 30 fps

4G + VPN

LTE with WireGuard® encrypted tunnel

100 m

IR night vision, dual-light optional

128 dB

WDR for harsh sunlight and backlight

IP66

Aluminium alloy, surge protected

AI

Human & vehicle classification

KEY FEATURES

12MP Sony Starlight imaging

1/2.3" IMX577 sensor with H.265+ compression for full-resolution detail at lower bitrate and storage.

Secure 4G with built-in VPN

WireGuard® tunnel to your control room or VMS, HTTPS web access and IP filtering. Cloud/P2P access can be disabled.

Edge AI detection

Classifies vehicles, non-motor vehicles and pedestrians with line-crossing, intrusion and enter/leave-area rules to cut false alarms.

Long-range night vision

6 IR LEDs up to 100 m. Dual-light version (IR + white light) for full-color night images.

Flexible optics

Fixed 3.6 /6 /8/12 mm lenses, or 3.6–11 mm motorized auto-focus varifocal for wide sites.

Open integration

ONVIF, RTSP and RTMP push streaming, SDK available. Works with third-party NVR/VMS and AirLink Cloud Platform.

Two-way audio & voice alerts

Built-in microphone and speaker, voice broadcast and custom alarm sounds for on-site deterrence.

Built for off-grid sites

12 V DC input ready for AirLink solar power systems. Lightning/surge protection to IEC 61000-4-5.

BUILD OPTIONS

NETWORK	POWER	NIGHT VISION	LENS
4G LTE (standard) 5G (ASP204-5G-12.0MP)	DC 12 V (standard) PoE 802.3af (Optional)	IR 100 m Dual-light	Fixed 3.6/6/8/12 mm Varifocal 3.6–11 mm

SPECIFICATIONS

CAMERA	
Image sensor	1/2.3" Sony IMX577 Starlight CMOS, 12MP
Processor	MStar SSC359, H.265+
Max. resolution	4000 × 3000
Min. illumination	Color 0.001 lux @ F1.2; B/W 0.0001 lux @ F1.2
Shutter	1/10 s – 1/10,000 s
Day / night	IR-cut filter; auto / schedule / external / manual
Image functions	HDR, image flip
WDR	128 dB
Noise reduction	3D DNR
S/N ratio	50 dB
LENS	
Fixed	3.6 / 4 / 6 / 8 / 12 mm
Varifocal (option)	3.6–11 mm motorized, auto focus
ILLUMINATION	
IR	6 IR LEDs, up to 100 m
Dual-light (option)	IR + white light, full-color night images
VIDEO	
Compression	H.265+ / H.265 / H.264; JPEG snapshot
Streams	Dual stream, CBR / VBR
Bitrate	0.1 – 12 Mbps
Sub stream	720×480 / D1 / VGA / 640×360
Main stream	4000×3000 @ 25 fps; 3840×2160 / 3072×2048 / 2592×1944 @ 30 fps; 2560×1440 and below @ 60 fps
Privacy mask	4 zones
OSD	Yes
AI & EVENTS	
AI detection	Classification of motor vehicles, non-motor vehicles and pedestrians
Rules	Line crossing, intrusion, enter area, leave area
Basic events	Motion, tamper, network disconnect, IP conflict
Alarm actions	SD recording, snapshot, email, app push, buzzer / custom voice
AUDIO	
Two-way audio	1 in / 1 out, G.711; built-in microphone + speaker
Voice	Voice broadcast, custom alert sounds
NETWORK & SECURITY	
VPN	WireGuard® encrypted tunnel (4G network board)
Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, NTP, SMTP, FTP, RTP, RTSP, RTMP
Integration	ONVIF; SDK (Windows, Android, Linux)
Access	User / password, HTTPS, IP address filtering; cloud P2P can be disabled
Platforms	AirLink Cloud Platform; AirLink CMS (64 ch); mobile app
CELLULAR	
Network	4G LTE (5G version: ASP204-5G-12.0MP)
Bands	Regional variants; band list per region
INTERFACE	
Ethernet	1 × RJ45, 10/100 Mbps
Storage	microSD, up to 512 GB
GENERAL	
Power input	DC 12 V ± 10%; PoE 802.3af (option)
Power consumption	1.1 W (IR off) / 9.6 W (IR on), camera only; with 4G: max 12.5 W (IR on)
Operating temperature	-30 °C to +65 °C
Humidity	≤ 95% RH, non-condensing
Protection	IP66; surge protection IEC 61000-4-5
Housing	Aluminium alloy, heat-dissipating design
Dimensions / weight	Camera body 19 x 7.9 x 9.5cm
Certification	CE; NDAA Section 889 compliant (declaration on request)

Specifications are subject to change without notice. WireGuard is a registered trademark of Jason A. Donenfeld.

