

IP camera with GANZ AI analytics

PixelPro AI

ZNPK-3B5M212DLP-A

NDAA Compliant

Special features:

- **P-Iris diaphragm** – precise diaphragm control for high image quality and depth of field across the entire frame.
- **AI (Artificial Intelligence) analytics** – artificial intelligence using *DeepLearning* algorithms for instant and precise detection and recognition of objects such as people and vehicles.
- **VBR+ –** dynamic video stream encoding providing adaptive QoS configuration for optimal link utilization through mutual renegotiation of parameters. Provides up to 20-30% increase in efficiency over VBR encoding while maintaining the same image quality.
- Sending a "Keep-Alive" test signal (e.g., to a monitoring station) confirming continuous communication with the device.
- Possibility to install additional licenses for special analytical functions (including LPR, fall detection, etc.).
- Only one type of detection can be active at a time for a single channel (for example, LPR or fall detection excludes line crossing or protected zone entry detection).
- The cameras were designed in South Korea.
- **NDAA compliance** – device compliant with the US Congress called the "National Defense Authorization Act".

Model	ZNPK-3B5M212DLP-A
Sensor	1/2.8" CMOS --- IMX675 STARVIS
Sensitivity (AGC ON)	Color: 0.003lux (F1.4) | IR ON: 0lux
Day/Night mode	Automatic IR-Cut filter
Electronic shutter	1/4 ~ 1/10000s (Slow shutter - x2 / x4 / x8)
Aperture	P-Iris
WDR mode	True WDR > 120dB
Noise reduction	2D / 3D-DNR
Lens	Motor-zoom with AF 2.8 – 12mm (86.5° ~ 33.4°)
IR illuminator	8 x IR LEDs, range up to 30 meters
AV compression	H.265 | H.264 | MJPEG | VBR+ | G.711U
Bitrate (CBR/VBR/VBR+)	Stream 1: 512 Kbps – 15 Mbit
	Stream 2 and 3: 512 Kbps – 8 Mbit
Resolution and frames	2592x1944 (30fps)
	2592x1520 and 1920x1080 (30fps)
Video streams	Stream 1: max. 2592x1944 (5MP)
	Streams 2 and 3: max. 640x480 (VGA)
	Stream 4 (SVC): 1/2, 1/4, 1/8
Image settings	Rotation, saturation, brightness, contrast, sharpness
Digital functions	HLC | BLC | Auto-ROI | DEFOG | Anti-Flicker
Corridor mode	N/A
Privacy masks	4 zones
Events	Motion detection (4 zones),
	PixelPRO AI analytics
Network protocols	TCP, UDP, IPv4/6, HTTP/S, DHCP, FTP, SMTP,
	DNS, DDNS, NTP, RTP, RTSP, RTCP, Multicast
	IGMP, ICMP, ARP, SSL/TLS
RTSP support	RFC2326 standard (VLC Player / QuickTime)
Protections	User authorization, hardware WatchDog
Compatibility	ONVIF, HTTP API
Ethernet interface	10/100 Base-T, RJ45
Audio	1 x IN (RCA - F) | 1 x OUT (RCA - F)
Alarm	1 x IN | 1 x OUT
Analog output	N/A

AI analytics functional capabilities	
AI engine features *(Artificial Intelligence)*	Object detection - *DeepLearning* engine
	Classification: person, vehicle, bicycle (**Detector**)
	Simultaneous tracking of multiple objects (**Tracker**)
Behavioral detection	intrusion, loitering, wandering, entry,
	exit, line crossing (directional), stop
Alarm filtering	Exclusion zones (masking), object size
Rules	Creating dependencies between the above conditions.
IP notifications	ONVIF, HTTP, HTTPS, TCP, E-mail, FTP
Other parameters	
Reset button	Yes
SD card support	Micro SD slot max. 2TB
Power	12VDC | 24VAC | PoE (802.3af / class-3)
Power consumption	12.4W (IR-LED OFF) / 13.4W (IR-LED ON)
Power output	12VDC (100mA)
Operating temperat.	-30°C ... +50°C
Max. humidity	90
Certificates and classes	CE | FCC | IP67 | IK10 (body)
Dimensions / weight	Ø 86 (body) x 270 mm / 1120g
Adjustment range	180° (H) / 180° (V) / 350° (Rotation)

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Mounting adapters for mounting:



ZA8-JBMP-2
(E holes)



ZA8-CBK627B

ZA8-CBK627B
only in combination
with box **ZA8-JBMP-2**

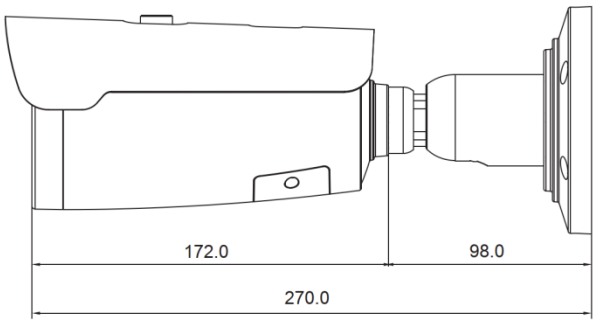
Compatibility:

PixelMASTER | DigiMASTER | CORTROL VMS | KronosNET | SAFESTAR

Table specifying ranges for correct detection (object size)

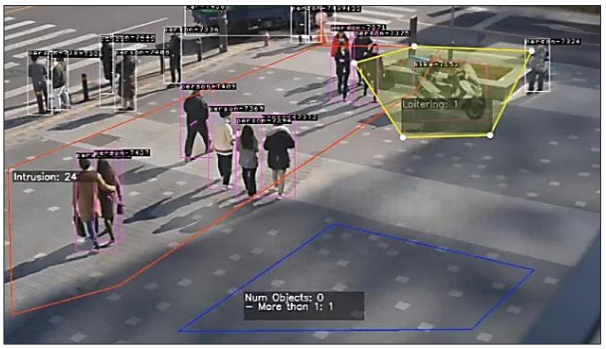
Object class	Person		Vehicle	
	Width	Height	Width	Height
Standard **AI** detection	2.00	6.00	7.00	6.00
Max. detection **2.8 mm (86.5° H)**	20 meters		20 meters	
Max. detection **12 mm (33.4° H)**	60 meters		60 meters	

External dimensions:



Examples of detection Vehicle groups in the Vehicle class:

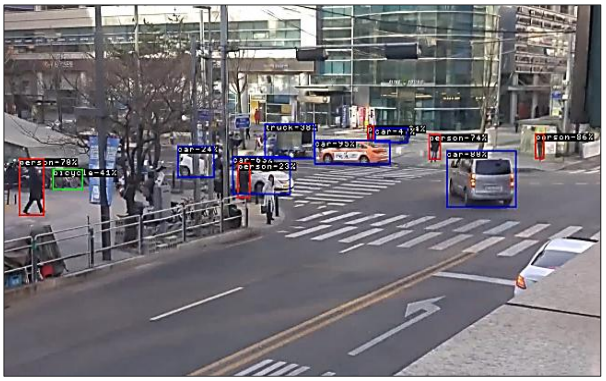
Detected general vehicles:	Undetected special vehicles:
▪ Passenger vehicles ▪ Delivery vehicles (up to 3.5 tons) ▪ Buses, coaches, pickup trucks ▪ TIRs (tractor units with semi-trailers) ▪ Bicycles, mopeds, and motorcycles ▪ Trucks with closed cargo compartments (e.g., refrigerated trucks)	▪ Excavators and derivatives ▪ Lifts, forklifts, cranes ▪ Dump trucks (trucks with open cargo compartments) ▪ Tractors, Tractors, Trailer combinations ▪ Quads, go-karts Due to their general characteristics and appearance, the above vehicles may cause errors or lack of detection for the Vehicle class.



Defining monitoring zones of any shape



Simultaneous tracking of multiple objects in a frame with heavy traffic



Precise recognition of objects at a long distance

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