



IP camera with GANZ AI analytics

PixelPro Al

Model	ZNPK-2B5M550DL-A	
Sensor	1/2.8" CMOS IMX335 STARVIS	
Sensitivity (AGC ON)	Color: 0.004lux (F2.0) IR ON: 0lux	
Day/Night Mode	IR-Cut automatic filter	
Electronic Shutter.	1/4 - 1/10000 (Slow shutter - x2 / x4 / x8)	
Iris	DC-Iris	
WDR mode	True WDR > 120dB	
Noise reduction	2D / 3D-DNR	
Lens	Motor-zoom with AF 5 - 50mm (42.6° ~ 7.4°)	
IR illuminator	range up to 80 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 framerate	2592x1944 (30fps)	
	2592x1520 and 1920x1080 (30fps).	
	Stream 1: 2592x1944 (5MP) max.	
Streaming	Stream 2 and 3: 1280x720 (VGA) max.	
	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).	
Security	User authentication, hardware WatchDog	
Compatibility	ONVIF, HTTP API	
Ethernet	10/100 Base-T, RJ45	
Audio	1 x EC (RCA - F) 1 x WY (RCA - F)	
Alert	1 x EC 1 x WY	
Analog output.	N/A	

ZNPK-2B5M550DL-A



Special features:

- AI (Artificial Intelligence) analytics artificial intelligence using *DeepLearning* algorithms to provide instant and precise detection and recognition of objects like person, vehicle.
- VBR+ dynamic video stream coding providing adaptive QoS configuration for optimal link utilization through reciprocal renegotiation of parameters. Provides up to 20-30% efficiency gains over VBR encoding while maintaining the same video quality.
- Auto-ROI (Region of Interest) automatically designates areas of interest based on motion detection. The camera downgrades the image quality outside the ROI zones to reduce bandwidth consumption while maintaining maximum image quality in the ROI zones.
- Sending a "Keep-Alive" test signal (e.g., to a monitoring station) to confirm continued communication with the device.
- Possibility to install additional licenses for special analytical functions (including LPR, person fall detection, etc.).
- For a single channel, only one type of detection can be active at the same time (for example, LPR or fall detection of a person, excludes detection of crossing a line or entering a protected zone).
- The cameras were designed in South Korea.
- NDAA compliance the device complies with the US congressional act called the "National Defense Authorization Act."

Functional capabilities of AI analytics		
Al engine features (Artificial Intelligence)	Object detection - DeepLearning engine	
	Classification: person, vehicle, bicycle (Detector)	
	Track multiple objects simultaneously (Tracker)	
Behavioral detection	Intrusion, staying, loitering, entering,	
	exit, line cutting (directional), stopping	
Alarm filtering	Exclusion (masking) zones, object size	
Rules	Creating relationships between the conditions of jw.	
IP notifications	ONVIF, HTTP, HTTPS, TCP, E-mail, FTP	
Other parameters		
Reset button	Yes	
Reset button SD card support	Yes Micro SD slot max. 2TB	
SD card support	Micro SD slot max. 2TB	
SD card support Power supply	Micro SD slot max. 2TB 12VDC 24VAC PoE (802.3af / class-3)	
SD card support Power supply Power consumption	Micro SD slot max. 2TB 12VDC 24VAC PoE (802.3af / class-3) 10.5W (IR-LED OFF) / 11.2W (IR-LED ON)	
SD card support Power supply Power consumption Power output Operating	Micro SD slot max. 2TB 12VDC 24VAC PoE (802.3af / class-3) 10.5W (IR-LED OFF) / 11.2W (IR-LED ON) 12VDC (100mA)	
SD card support Power supply Power consumption Power output Operating temperature	Micro SD slot max. 2TB 12VDC 24VAC PoE (802.3af / class-3) 10.5W (IR-LED OFF) / 11.2W (IR-LED ON) 12VDC (100mA) -30°C + 60°C	
SD card support Power supply Power consumption Power output Operating temperature Max Humidity Certifications and	Micro SD slot max. 2TB 12VDC 24VAC PoE (802.3af / class-3) 10.5W (IR-LED OFF) / 11.2W (IR-LED ON) 12VDC (100mA) -30°C + 60°C 90%	

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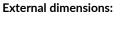
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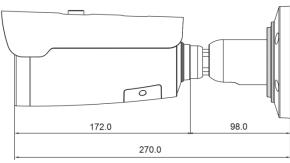




Table determining ranges for proper detection (object size)

Person Vehicle **Object class** Height Height Lat. Lat. Standard AI detection 2,00% 6,00% 7,00% 6,00% Max. detection 5mm (42.6° H) 30 meters 30 meters Max. detection 50mm (7.4° H) 240 meters 240 meters





Examples of detecting Vehicle Groups in the Vehicle class:

General vehicles detected:	Undetected Special Vehicles:
 Personal car Commercial vehicles (up to 3.5 tons) Buses, Autobus, Pickups TIR's (Tractor-trailer-trailers) Bicycles, Moto-bicycle and Motorbike Trucks with closed cargo holds (e.g., refrigerated trucks) 	 Excavators and similar equipment Lifts, forklifts, cranes, and derricks Dump trucks (open-bed trucks) Tractors, agricultural machinery, and trailer combinations ATVs and go-karts These types of vehicles often fall outside the typical training data for standard vehicle detection models,
	leading to potential misclassification or non-detection.



Defining monitoring zones of any shape



Simultaneous tracking of multiple subjects in a high-motion frame



Precise recognition of objects at a long distance

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