



IP camera with GANZ AI analytics

PixelPro Al

Model	ZNP-MB5F28D-A		
Sensor	1/2.8" CMOS IMX335 STARVIS		
Sens. (AGC ON)	Color: 0.003lux @ F1.4 / IR ON: 0lux		
Day/Night Mode	Auto IR-Cut		
Electronic shutter	1/5 – 1/5000 (Slow shutter - x2 / x4 / x8)		
Iris	F-Iris		
WDR	True WDR > 120dB		
Noise Reduction	2D / 3D-DNR		
Lens	2.8mm (102°)		
IR Illuminator	4 x IR LED, up to 30 meters		
AV Compression	H.265 / H.264 / MJPEG / VBR+ / G.711U		
Bitrate	Stream 1: 512 Kbps – 15 Mbit		
(CBR/VBR/VBR+)	Stream 2 / 3: 512 Kbps – 8 Mbit		
	2592x1944 (30 FPS)		
Resolution and framerate	2592x1520 i 1920x1080 (30 FPS)		
	Stream 1: maks. 2592x1944 (5MP)		
Streaming	Stream 2 / 3: maks. 640x480 (VGA)		
-	Stream 4 (SVC): 1/2, 1/4, 1/8		
Image settings	Flip, Hue, Brightness, Contrast, Sharpness		
Digital functions	HLC / BLC / Auto-ROI / DEFOG / Anty-Flicker		
Corridor mode	N/A		
Privacy mask	4 zones		
	Motion Detection (4 zones),		
Events	PixelPRO AI video analytics		
	TCP, UDP, IPv4/6, HTTP/S, DHCP, FTP, SMTP,		
Network protocols	DNS, DDNS, NTP, RTP, RTSP, RTCP, Multicast		
	Unicast, uPNP, WS-Discovery, SSL, PPPoE		
RTSP support	Standard RFC2326 (VLC Player / QuickTime)		
Security	User authorization, Hardware WatchDog		
Compatibility	ONVIF, HTTP API		
Ethernet	10/100 Base-T, RJ45		
Audio	N/A		
Alarm	N/A		
Analog video OUT	N/A		

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Features:

- Al analytics (Artificial Intelligence) DeepLearning algorithm provides instant and precise detection and classification of objects like person or vehicle.
- VBR+ dynamic video stream coding using QoS adaptation to optimize bandwidth utilization by 2-way renegotiation parameters between both network endpoints. Reduces network bandwidth by 20-30% comparing to standard VBR coding keeping same image quality.
- Sending test message "Keep-Alive" (ex. to Alarm Receiving Center) confirming that device is online.
- Option to install additional software licenses to enable special AI features like ANPR/LPR, behavior detection, safety monitoring etc.
- For one channel there can be enabled only one type of detection same time. For example when ANPR/LPR is enabled it excludes line crossing or intrusion detection.
- Device developed in South Korea.

AI analytics details:		
	Object detection by Deep Learning engine	
Features of AI engines (Artificial Intelligence)	Classification: person, vehicle, bicycle (Detector)	
	Multi-Object tracking simultaneously (Tracker)	
Detection features	Intrusion, Occupancy, Loiter/Dwell, Zone IN,	
	Zone OUT, Line crossing (direction), Stopping	
Alarm filtering	Exclusion zones (masking), object size definition	
Rules	Creating correlation between conditions and events	
IP notifications	ONVIF, HTTP, HTTPS, TCP, E-mail, FTP	

Reset button	Yes	
SD card support	N/A	
Power Input	12V DC / PoE (802.3af / class-3)	
Power consumption	6W (IR-LED OFF) / 10W (IR-LED ON)	
Power Output	N/A	
Working Temperature	-30°C ~ +50°C	
Max. Humidity	90%	
Certyficates and class	CE / FCC / IP66	
Dimensions / weight	Ø 66 (housing) x 209 mm / 550g	
Rotation	180° (H) / 180° (V) / 350° (Flip)	

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Table showing detection distance (object size)

Object class	Person		Vehicle	
Object class	Width	Height	Width	Height
Standard AI detection	2,00%	6,00%	7,00%	6,00%
Max. detection with 2.8mm (102° H)	20 meters		20 meters	

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Examples of vehicles groups possible to detects by AI as Vehicle class:

Detected vehicles:	Non-Detected vehicles		
 Personal car Lorry (up to 3,5 ton) Bus, Autobus , Pickup TIR'y (Truck with trailer) Bicycle, Moto-bicycle i Motorbike 	 Digger and similar to it Forklift and simillar to it Construction side vehicles Tractor and similar to it Quad and similar to it Above vehicles cannot be detected by AI and classified as vehicle because of specific shape and textures which are very different from basic vehicle classes. 		



Flexible zones definition is possible

External dimensions:



Multi-object tracking and classification even with huge traffic



Precise object classification on long distance

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