



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		

# ZNP-MB5F28D-A

#### 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 <b>2.8mm (102° H)</b>	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		
<ul> <li>Personal car</li> <li>Lorry (up to 3,5 ton)</li> <li>Bus, Autobus , Pickup</li> <li>TIR'y (Truck with trailer)</li> <li>Bicycle, Moto-bicycle i Motorbike</li> </ul>	<ul> <li>Digger and similar to it</li> <li>Forklift and simillar to it</li> <li>Construction side vehicles</li> <li>Tractor and similar to it</li> <li>Quad and similar to it</li> <li>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.</li> </ul>		



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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