



IP camera with GANZ AI analytics

## PixelPro Al

Model	ZNP-B5M212DP-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	P-Iris		
WDR	True WDR > 120dB		
Noise Reduction	2D / 3D-DNR		
Lens	Motor-zoom z AF 2.8 – 12mm (96° ~ 30°)		
IR Illuminator	8 x IR LED, up to 50 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		
Resolution and	2592x1944 (30 FPS)		
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		
Fuente	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	1 x IN (RCA - F) / 1 x OUT (RCA - F)		
Alarm	1 x IN / 1 x OUT		
Analog video OUT	N/A		

## ZNP-B5M212DP-A

#### **Features:**

- P-Iris precise iris control providing best video quality and Focus depth on full scene
- 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	Micro SD / SDHC / SDXC card slot, max. 128GB		
Power Input	12V DC / 24V AC / PoE (802.3af / class-3)		
Power consumption	8W (IR-LED OFF) / 14W (IR-LED ON)		

Power Output	12V DC (100mA)	
Working Temperature	-30°C ~ +50°C	
Max. Humidity	90%	
Certyficates and class	CE / FCC / IP67 / IK10 (housing)	
Dimensions / weight	Ø 86 (housing) x 270 mm / 1120g	
Rotation	180° (H) / 180° (V) / 350° (Flip)	

#### © CBC | Rev.2022.06

CBC Tokio HQ CBC Osaka CBC Nagoya CBC Fukuoka CBC Mishima CBC New Jersey CBC Los Angeles CBC Mexico CBC Beijing CBC DongGuan CBC Shanghai CBC HongKong CBC Singapore CBC Taiwan CBC Bangladesh CBC Guangzhou CBC Indonesia CBC Thailand CBC UK

**CBC** Germany

CBC Poland CBC Italy CBC Spain CBC Russia CBC India

## CBC Poland sp. z o.o.

ul. Rydygiera 8, bud. 17 01-793 Warszawa kontakt@ganzsecurity.pl



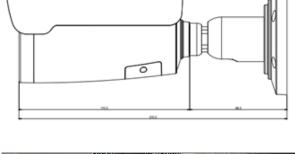


### Table showing detection distance (object size)

Object slave	Person		Vehicle	
Object class	Width	Height	Width	Height
Standard AI detection	2,00%	6,00%	7,00%	6,00%
Max. detection with 2.8mm (96° H)	20 meters 20 meter		eters	
Max. detection with 12mm (30° H)	60 meters		60 meters	

## 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>		



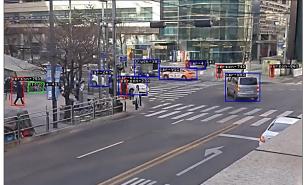


Flexible zones definition is possible

**External dimensions:** 



Multi-object tracking and classification even with huge traffic



Precise object classification on long distance

### © CBC | Rev.2022.06

CBC Tokio HQ CBC Osaka CBC Nagoya CBC Fukuoka CBC Mishima CBC New Jersey CBC Los Angeles CBC Mexico CBC Beijing CBC DongGuan

CBC Shanghai CBC HongKong CBC Singapore CBC Taiwan CBC Bangladesh CBC Guangzhou CBC Indonesia CBC Thailand CBC UK CBC Germany CBC Poland CBC Italy CBC Spain CBC Russia CBC India

# CBC

CBC Poland sp. z o.o. ul. Rydygiera 8, bud. 17

и. кудудиета 8, bud. 17 01-793 Warszawa kontakt@ganzsecurity.pl