

AI and Video Analytics



FEATURES

- Event rule combining - AI video analytics
- Simple AI setup with existing IP cameras
- Multi-level AI-based false alarm reduction
- High-performance pose estimation AI technology
- Smart scene detection
- Run multiple AI apps on each video channel
- Easy integration with other systems
- Web-based configuration
- Enhanced security options
- NDAA compliant

GANZ

AI BOX V2.0

AI-Based

Intuitive AI video analytics



False Alarm Reduction

Multi-level AI-based



Multiple AI Apps

Running simultaneously on each channel

Accurate Event Detection

Using scene interpretation

AI Application Packages	Pre-installed Package	AI Box V2.0 Standard Package - ZN-AIBOX-STD <ul style="list-style-type: none"> Dynamic Privacy Masking Standard Attribute (clothing colors) Queue Management Standard Heat Map Intrusion Detection Loitering Detection People Counting Vehicle Counting Zone Counting (zone occupancy) Virtual Fence (line crossing) Stopping Detection Stay & Go (enter & exit) Occupancy Counting 	AI Box V2.0 Pro Package - ZN-AIBOX-PRO <ul style="list-style-type: none"> Crowd Detection Advanced Visitor Analysis Intentional Body Gaze Detector Hand & Foot Intrusion Imminent Threat Fallen Person Detection Animal Detection Vehicle Counting (bus, truck, other cars) Thermal (human) Detector Drone View Advanced Attribute Also includes Standard Package licenses
AI Application Add-ons	Add-on Licenses (Channel license required)	<ul style="list-style-type: none"> License Plate Recognition (LPR) - US, EU, JP, KR Advanced Heat Map Helmet /Safety Vest - Not Wearing Illegal Dumping Illegal Parking Violence Detection PTZ Auto Tracking Combined Counter Human Prolonged Stay 	
AI Engine	Included in AI Applications	Included in AI Applications Detector, Tracker, Recognizer, and Behavior Analyzer Behavior Detection Trigger, Counting Trigger, System Trigger, and Recognition Trigger	
Event Trigger	False Alarm Filter Combined with Other Triggers	Perspective interpolation based object size filter AI-based multi-level prevention filter Yes	
Event Action	System Events System Action Handler Network Action Handler VMS Action Handler NVR/DVR Action Handler Combining Rules with Other Events Pre/Post Snapshot	Alarm in, virtual alarm in, video loss / recovery, system start, disarm, recurrence, login, tamper detection Relay out, RS485, audio back channel (camera speaker) HTTP, FTP, e-mail (SMTP), AWS S3, TCP, Onvif Ganz CORTROL plug-in, Milestone, NX Plug-in HTTP API Yes Yes	
Analytics Report	Counter Report Visitor Analytics Report (License, TBD) Queue Management Report (TBD) Heatmap and Pathmap Reports (TBD)	TBD - - -	
UI	Web UI	HTML5 web UI (no plug-ins)	
API	API	Onvif, REST	

	AI Apps Supported in 8ch Mode	AI Apps Supported in 16ch Mode	
Number of Input Video Channels	<ul style="list-style-type: none"> • Standard Package • Pro Package • Add-on licenses 	<ul style="list-style-type: none"> • Intrusion • Loitering • People Counting • Vehicle Counting • Zone Counting • Virtual Fence • Stopping • Stay & Go, • Occupancy • Combined Counter 	
Video	Annotated Video Output - RTSP	Yes - 8 ch mode	No - 16 ch mode
	Pre / Post JPEG Snapshot	Yes - 8 ch mode	Yes - 16 ch mode
	Max Video Input Resolution	4K (3840x2160) @ 60 fps	2MP (1920x180) @ 240 fps
	Video Input Method	RTSP, RTSP over HTTPS, Onvif	
	Supported Input Video Format	H.265 / H.264	
	Supported Input FPS	3 ~ 30fps per channel <i>Note: If channel uses dynamic FPS - Turn off</i>	
	Supported Input GOP	Same value as FPS setting per channel <i>Note: If channel uses dynamic GOP - Turn off</i>	
	Video Output Stream Method	RTSP over TCP/UDP, RTSP over websocket, RTSP over HTTPS (TBD)	
Monitor Out / Monitor Resolution	- / -		
Audio	Audio Input / Output	1 x Audio in / 1 x Audio out	
Interface	USB	1 x USB2.0, 1 x USB3.0	
	RS-485	1	
	LAN	2 x 10/100/1000 BASE-T Ethernet (ETH1/ETH2)	
	Wiegand	1ch input / 1ch output	
Alarm I/O	Alarm Input/ Output	4ch input / 1ch (relay) output	
Additional	Watchdog / RTC	Yes / Yes	
	Cooling Fan	-	
	Factory Reset Button	Yes	
	LED Indicators	1 x power LED (3 color) / 1 x Status LED (3 color)	
Power	Power Supply / Consumption	12V/3.3A adaptor / 16 watts	
Environment	Temperature / Humidity	-4°F~-158°F (-20°C ~ 70°C) / 10 ~ 90% NC	
Chassis	Dimensions	5.6" L x 7.1" W x 1.7" H , 142mm L x 180mm W x 42mm H	
	Weight (net/gross,)	2lbs / 3.3lbs, 0.9/ 1.5 Kg	
Certifications	CE, FCC, KC, NDA compliant		

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