



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



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 Combine Rule Multi-Zone Counting Car Occupancy Counting 	Pro Package Add-on ZSL-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 Fisheye Camera Support Vehicle Type Detection Also includes Standard Package licenses
	Add-on Licenses (Per channel license required)	<ul style="list-style-type: none"> License Plate Recognition (LPR) - US, EU, JP, KR Advanced Heat Map No PPE Detection Forklift Driver No Helmet Illegal Dumping PTZ Auto Tracking Aggression Detection Bullying Detection Staff Exclusion People Counting 	

AI Engine	Included in AI Applications	Detector, Tracker, Recognizer, and Behavior Analyzer
	Included in AI Applications	Behavior Detection Trigger, Counting Trigger, System Trigger, and Recognition Trigger
Event Trigger	False Alarm Filter	Perspective interpolation based object size filter
	Combined with Other Triggers	AI-based multi-level prevention filter
Event Action	System Events	Alarm in, virtual alarm in, video loss / recovery, system start, disarm, recurrence, login, tamper detection
	System Action Handler	Relay out, RS485, audio back channel (camera speaker)
	Network Action Handler	HTTP, FTP, e-mail (SMTP), AWS S3, TCP, Onvif
	VMS Action Handler	Ganz CORTROL plug-in, Milestone, NX Plug-in
	NVR/DVR Action Handler	HTTP API
	Combining Rules with Other Events	Yes
	Pre/Post Snapshot	Yes
Analytics Report	Counter Report	TBD
	Visitor Analytics Report (License, TBD)	-
	Queue Management Report (TBD)	-
	Heatmap and Pathmap Reports (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	
	USB	1 x USB2.0, 1 x USB3.0	
Interface	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, NDAA Compliant	