

## Al and Video Analytics



#### **FEATURES**

- Capable of over 50+ intuitive AI apps (on-premise)
- Multi Al Algorithms running on single channel
- Advanced human behavior analysis
- Supports up to 16 camera channels
- Wide temperature range: without fan: -22°F ~ 158°F
- Supports various protocols and VMS
- P2P-based mobile alarm viewer
- LTE & GPS support (option)
- Internal recording with M.2 NVME SSD (optional)
- Cloud-based dashboard (optional)
- Optional Model: ZN-AIBOX-PRO-LTE (LTE support)
- Hybrid AI boost mode support
- NDAA Compliant

# **AI BOX PRO**



#### **AI-Based**

Intuitive AI video analytics



#### **False Alarm Reduction**

Multi-level AI-based



#### Multiple Al Apps

Running simultaneously on each channel



#### **Accurate Event Detection**

Using scene interpretation



	Model	8-channel Basic Al application package	16-channel (Extension) mode *Basic Al application package	8-channel *Advanced includes Basic Package
	Pre-installed Packages	Dynamic Face Masking LP Masking Basic Attributes (Color of Clothes) Queue Management Basic Heatmap Intrusion Detection Loitering Detection People Counting Vehicle Counting Zone Counting Multi Zone Counting Virtual Fence-Stopping Stay & Go Enter/Exit Detection Speed Anomaly Detection Occupancy Counting	Intrusion Detection Loitering Detection People Counting Vehicle Counting Zone Counting Multi Zone Counting Virtual Fence Stopping Detection Stay & Go Enter/Exit Detection Occupancy Counting Occupancy Car Counting Thermal Intrusion Detection (in the case of installing thermal license)	<ul> <li>e-Crowd Detection</li> <li>Advanced Visitor Analysis</li> <li>Hand &amp; Foot Intrusion</li> <li>Intentional Body Gaze Detector</li> <li>Imminent Threat</li> <li>Fallen Person Detection</li> <li>Animal Detection</li> <li>Fire &amp; Smoke Detection</li> <li>Vehicle Type Counting</li> <li>Vehicle Type Detection</li> <li>Thermal Intrusion Detection</li> <li>Fish-eye Camera support</li> <li>Advanced Attribute</li> </ul>
Al Applications	Optional: Extra licenses	LPR-KR Advanced Heatmap No PPE Illegal Dumping Aggressive Detection PTZ Tracking Human Prolonged Stay Staff Exclusion People Counting Forklift No Helmet Forklift Detection Forklift Non-Driver Detection Reverse Movement Detection Vehicle Zone Presence Road Pedestrian Detection Work Vehicle Hazard Detection	n/a	<ul> <li>LPR-US, LPR-Europe, LPR-JP, LPR-KR</li> <li>Advanced Heatmap</li> <li>No PPE</li> <li>Illegal Dumping</li> <li>Aggressive Detection</li> <li>PTZ Tracking</li> <li>Human Prolonged Stay</li> <li>Staff Exclusion People Countin</li> <li>Forklift No Helmet</li> <li>Forklift Detection</li> <li>Forklift Non-Driver Detection</li> <li>Reverse Movement Detection</li> <li>Vehicle Zone Presence</li> <li>Road Pedestrian Detection</li> <li>Work Vehicle Hazard Detection</li> <li>Uehicle Queue Management</li> <li>Hybrid Al Boost apps</li> </ul>
			Marm In Video Less (Resource D	isarm Pacurranca Login System Sta
	System Events	Tamper Detection, Alarm In, Virtua	Alarii III, video Loss/Recovery, D	isai iii, Recui i erice, Logiii, Systeiii Sta
	System Events Action Handlers		ail, S3, VMS, Onvif, Audio Back Cha	
Event Action	Action Handlers  Combining Rules w/ Other Events		ail, S3, VMS, Onvif, Audio Back Cha Yes	
Event Action	Action Handlers  Combining Rules w/ Other Events  Pre/Post snapshot		ail, S3, VMS, Onvif, Audio Back Cha	
Event Action	Action Handlers  Combining Rules w/ Other Events  Pre/Post snapshot  Annotated Video Stream		ail, S3, VMS, Onvif, Audio Back Cha Yes	
Event Action	Action Handlers  Combining Rules w/ Other Events  Pre/Post snapshot  Annotated Video Stream  Max. Video Input Resolution		ail, S3, VMS, Onvif, Audio Back Cha Yes Yes Yes 2M @ 240 fps	annel (Camera speaker)  4K @ 60 fps (2M @ 240 fps)
	Action Handlers  Combining Rules w/ Other Events  Pre/Post snapshot  Annotated Video Stream  Max. Video Input Resolution  Video Input Method	HTTP, TCP, FTP, E-m	ail, S3, VMS, Onvif, Audio Back Cha Yes Yes Yes	annel (Camera speaker)  4K @ 60 fps (2M @ 240 fps)
Event Action  Video	Action Handlers  Combining Rules w/ Other Events  Pre/Post snapshot  Annotated Video Stream  Max. Video Input Resolution  Video Input Method  Supported Input Video Format	HTTP, TCP, FTP, E-m	ail, S3, VMS, Onvif, Audio Back Cha Yes Yes Yes 2M @ 240 fps	annel (Camera speaker)  4K @ 60 fps (2M @ 240 fps)
	Action Handlers  Combining Rules w/ Other Events  Pre/Post snapshot  Annotated Video Stream  Max. Video Input Resolution  Video Input Method  Supported Input Video	HTTP, TCP, FTP, E-m  4K @ 60 fps (2M @ 240 fps)  RTSP over To	ail, S3, VMS, Onvif, Audio Back Cha Yes Yes Yes 2M @ 240 fps RTSP, RTSP over HTTP/S, Onvif	annel (Camera speaker)  4K @ 60 fps (2M @ 240 fps)  SP over HTTP/S





### **ZN-AIBOX-PRO**

	USB	1 x USB3.0		
	RS-485	1 x RS-485 (Full-duplex 4line T/B)		
	RS-232	1 x RS-232 (D-SUB9)		
	Wiegand	1ch input / 1ch output		
Interface	LAN	2 x 10/100/1000 BASE-T Ethernet (ETH1/ETH2)		
	Mini PCle Slot (LTE, GPS Module)	1x Mini-PCIe (for LTE-cat4 / GPS (GNSS) Modem module)		
	SIM Slot	1x micro SIM Slot		
	Antenna	2x 50Ω SMA Female for Main Antennas (OPTION)		
		1x 50Ω SMA Female for GPS(GNSS) Antenna (OPTION)		
Alarm I/O	Alarm Input	4CH DI (0-30V Input)		
	Relay Output	4CH Relay (Up to 3A and 30VDC/250VAC output) NO/COM/NC (Terminal Block)		
Storage	Internal SD	1 x Internal SD Card Slot		
	NVMeSSD	1 x M.2 M-Key Slot (for M.2 2280 NVMeSSD) / Recording license 8-ch(OPTION)		
	Watchdog	Yes		
	RTC	Yes		
Additional	Fan	No		
	Factory Reset button	Yes		
	LED Indicators	1 x Power LED (3-Color), 1 x Status LED (3-Color), 1 x Alarm in LED (3-Color), 1 x Alarm out (3-Color		
Power	Power Supply	12V/3.3A adapter, DC +9V ~ +36V (DC Input Voltage)		
Power	Consumption	Consumption 16 Watts (without NVMeSSD)		
Environment	Temperature/Humidity	-22°F~158°F (-30°C ~ 70°C ) / 10 ~ 90% NC (without NVMeSSD) / -4°F ~ 140°F (-20°C ~ 60°C) / 10 ~ 90% NC (with commercial NVMeSSD)		
Chanain	Dimensions (W $\times$ D $\times$ H)	8.4 x 6.9 x 2.4" / 213.6 x 175.8 x 60mm		
Chassis	Weight (Net/Gross)	3.3/ 4.9 lbs. / 1.5/2.2 KG		
Mounting		Wall or Desk mount		
Certifications		CE, FCC, KC, UKCA		



