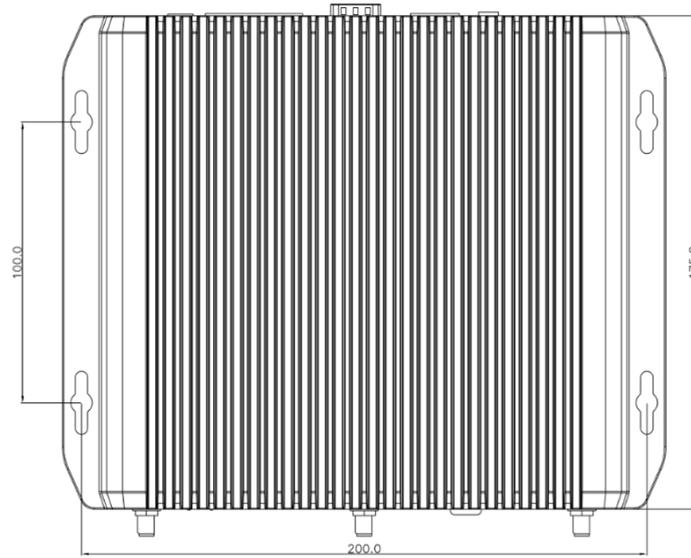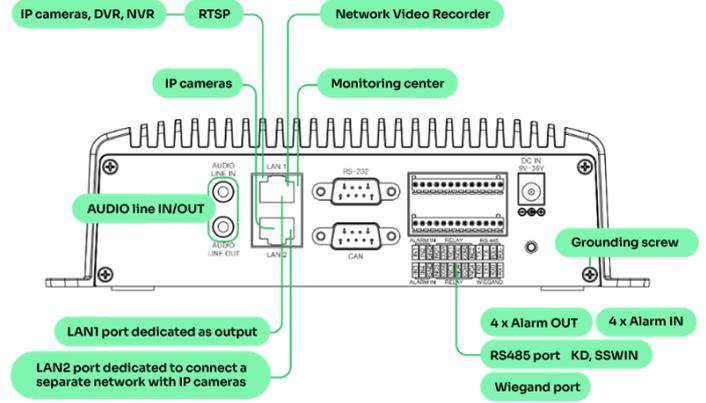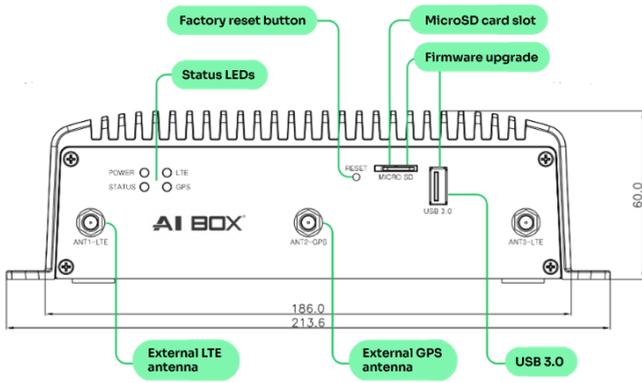# ZN-AIBOX-PRO

Video alarm transmitter

Main features:

- ✓ Easy to configure and intuitive AI video analytics applications
- ✓ Easily build an AI system using existing CCTV cameras
- ✓ Multi-stage false alarm reduction based on artificial intelligence
- ✓ Accurate event detection through scene understanding
- ✓ Ability to run multiple AI applications on each video channel
- ✓ Easy to integrate with other systems
- ✓ Web-based configuration
- ✓ Advanced security options
- ✓ Built-in 1TB SSD for event or continuous recording
- ✓ 4G (LTE) and GPS (optional) network support
- ✓ NDAA compliant

Mode		8-channel	16-channel
Video	Max. resolution of the input stream	4K(3840x2160) 60 FPS	2MP(1920x180) 240 FPS
	Supported input protocols	RTSP, RTSP over HTTPS, Onvif	
	Supported video formats	H.265/H.264	
	Recommended FPS	3~ 30 FPS per channel *Dynamic FPS disabled*	
	Recommended GOP	Equal to the FPS per channel *Dynamic GOP disabled*	
	Video output	RTSP over TCP/UDP, RTSP over websocket, RTSP over HTTPS (TBD)	
Audio	Audio input	1x line audio input (3.5mm mini-jack)	
	Audio output	1x line audio output (3.5mm mini-jack)	
Interface	USB	1x USB3.0	
	RS-485	1 x RS-485 (Full-duplex)	
	RS-232	1 x RS-232 (D-SUB9)	
	Wiegand	1x input / 1x output channel	
	LAN	2x 10/100/1000BASE-T Ethernet(ETH1/ETH2)	
	Mini PCIe slot	1x Mini-PCIe (for LTE-cat4 / GPS(GNSS) module)	
	SIM slot	1x micro SIM slot	
	Antenna	2x 50Ω SMA (female) for GSM antenna *(OPTIONAL)* 1x 50Ω SMA (female) for GPS(GNSS) antenna *(OPTIONAL)*	
Alarm IN/OUT	Alarm IN	4-channel DI (0-30v)	
	Alarm OUT	4-channel relay (max 3A, 30V$_{DC}$/250V$_{AC}$) NO, COM, NC	
Additionally	Watchdog	Yes	
	RTC	Yes	
	LED indicators	1x power LED (3 colors) 1x status LED (3 colors) 1x alarm input LED (3 colors) 1x alarm output LED (3 colors)	
Power supply	Power adapter	12V/3.3A AIBOX input voltage: DC 9V-36V	
	Power consumption	16W	
Operating conditions	Temperature/Humidity	-30ºC ~ 70ºC / 10 ~ 90%NC	
Housing	Dimensions	213.6 x 175.8 x 60 mm	
	Weight (net/gross)	1.5kg / 2.2kg	
Certifications		CE, FCC, KC, NDAA Compliant	

Available AI applications		
Basic package of AI applications	8/16-channel mode	Intrusion detection Loitering detection Person counting Vehicle counting Zone counting Virtual fence Stopping detection Stay & Go Occupancy counting
	Additionaly in 8-channel mode	Dynamic Privacy Masking Basic attribute Queue management Heatmap
Additional licenses	Advanced application package	Crowd detection Hand & Foot intrusion Intentional body gaze detector Imminent threat Fallen person detection Animal detection Fire & Smoke detection Vehicle type counting Thermal intrusion detection Fisheye camera support Corridor mode support
	Additional analysis applications	LPR-EU/JP/US/KR Advanced heatmap No PPE Illegal dumping PTZ auto tracking Bullying detection

Events/Actions		
	System events	Tampering, Alarm input, Virtual alarm input, Video loss/recovery, Disarm, Test signal, Logging in, System startup
	Available actions	HTTP, TCP, FTP, E-mail, S3, VMS, Onvif, Audio Back Channel (camera speaker)
	Combined rules	Yes
	Pre/Post Snapshot	Yes

Factory reset button

Status LEDs

MicroSD card slot

Firmware upgrade

IP cameras, DVR, NVR

RTSP

Network Video Recorder

IP cameras

Monitoring center

AUDIO line IN/OUT

External LTE antenna

External GPS antenna

USB 3.0

LAN1 port dedicated as output

LAN2 port dedicated to connect a separate network with IP cameras

Grounding screw

4 x Alarm OUT

4 x Alarm IN

RS485 port   KD, SSWIN

Wiegand port

POWER LTE
STATUS GPS

RESET   MICRO SD

USB 3.0

AI BOX

ANT1-LTE

ANT2-GPS

ANT3-LTE

186.0
213.6

60.0

AUDIO LINE IN

LAN 1

RS-232

DC IN 9V-36V

AUDIO LINE OUT

LAN 2

CAN

ALARM IN   RELAY   RS-485

ALARM IN   RELAY   WIEGAND

100.0

175.8

200.0

Accessories:

ZN-AIBOX-LTE-KIT
LTE/GPS module

CBC Tokio HQ	**CBC** New Jersey	**CBC** Shanghai	**CBC** Guangzhou	**CBC** Poland	
CBC Osaka	**CBC** Los Angeles	**CBC** Hong Kong	**CBC** Indonesia	**CBC** Italy	
CBC Nagoya	**CBC** Mexico	**CBC** Singapore	**CBC** Thailand	**CBC** Spain	
CBC Fukuoka	**CBC** Beijing	**CBC** Taiwan	**CBC** UK	**CBC** India	
CBC Mishima	**CBC** Dongguan	**CBC** Bangladesh	**CBC** Germany		

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