

# AI BOX<sup>®</sup>



SPECIFICATIONS

GANZ<sup>®</sup>

## Features:

- Deeplearning based 'artificial intelligence'
- Various AI video analysis packages
- Can be used for surveillance, business intelligence, access control, loss prevention, etc. are used
- Compatible with existing VMS, NVR/DVR and alarm systems based on Onvif
- Intuitive user interface

## Integration

With strong partners at its side, the AI BOX can only realize its full potential and that of the connected systems.

Therefore, the AI BOX is integrated in leading solutions - of course also in our GANZ CONTROL video management software. Thus, already existing systems can be optimally and purposefully expanded and upgraded.



- Live feed
- Reception of video alarm signals with pre/post alarm images
- HTTP API, SMTP, FTP
- Arming / disarming AIBOX



- LIVE preview of AIBOX video channels (with AI metadata in the image)
- Receive video-alarm signals with pre / post-alarm pictures
- Playback of alarm photos in the form of short video clips
- Arming / disarming AIBOX



...more than others..

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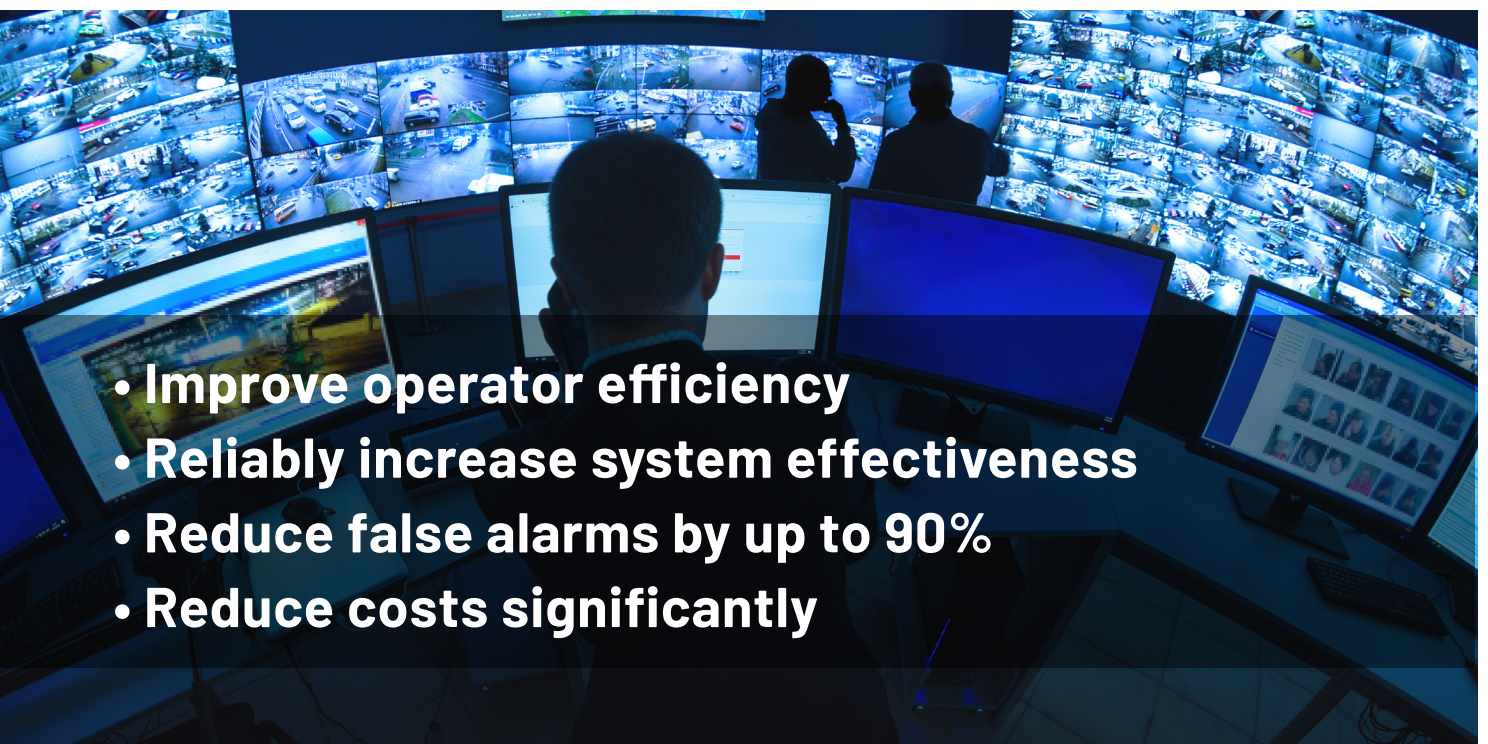
In addition, the AI BOX is integrated with the following VMS:



## Remote-Monitoring

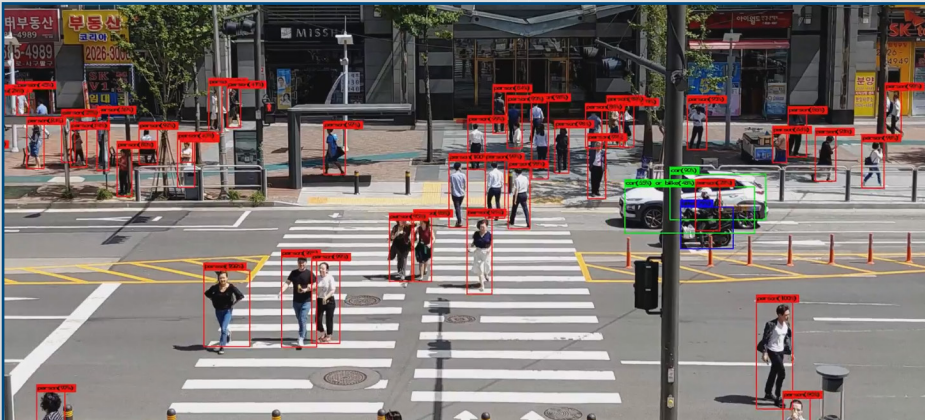
Remote monitoring companies have to deal with many alarms, actions and attention. But dealing with false alarms takes a lot of time, is frustrating for employees and, of course, incurs costs.

GANZ AI can help: With detection of differences between people, animals and objects as well as traffic. Moreover, with excellent performance even at night or in bad weather conditions: The reduction of false alarms is significant.



- **Improve operator efficiency**
- **Reliably increase system effectiveness**
- **Reduce false alarms by up to 90%**
- **Reduce costs significantly**

## APPLICATION EXAMPLES



### Busy Scene

Detection of multiple objects with classifications without calibration



AI BOX on YouTube



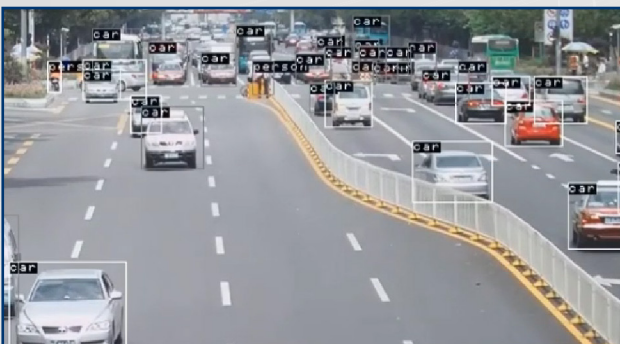
### Detection

Detection of people at night & rain



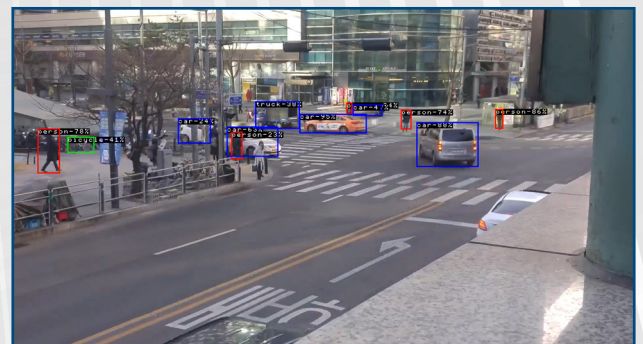
### Zone Type

Intrusion, loitering, stop and line crossing





### Busy Road

Counting of Cars



### Far Objects

Classification of Objects at a distance

	SPECS	
		
Model	ZN-AIBOX16	ZN-AIBOX4
Main Monitor	HDMI	
Main Monitor Resolution	Up to 1080p	
Number of Video Stream	Up to 16ch	Up to 4ch
Max Video Input Resolution	4K @ 120fps (1080P @ 480fps)	4K @ 30fps (1080P @ 120fps)
Video Input Method	RTSP, Onvif	
Supported Input Video Format	H.265 / H.264	
Number of Annotated Video Output Stream	16 + 1(Channel0 encoding)	4 + 1(Channel0 encoding)
Video Output Stream Method	RTSP over TCP, RTSP over Websocket	
Alarm Input	4 Ch	
Alarm Output	1 Ch	
USB	2x	
RS-485	1	
RS-232	-	
LAN	2x 10 / 100 / 1000Mbps	1x 10 / 100 / 1000Mbps
Watchdog	Yes	
Cooling Fan	-	
Power Supply	12V / 2A adaptor	
Power Consumption	max. 20W	Typical: 5W; max.: 7W
Temperature	0°C ~ 40°C	
Humidity	10 ~ 90% NC	
Dimension	200 x 131 x 38mm	
Weight	0.6kg Net, 1.1kg Gross	
Certification	CE, FCC, KC	

## AI LICENSES

License	Prerequisite	Description
ZNS-AI-A00	Included	Algorithm optimized for the differentiation of persons and objects
ZNS-AI-A01	Included	Object tracking
ZNS-AI-A02	-	Male/female classification
ZNS-AI-A03	-	Detection of persons without / with helmet
ZNS-AI-A04	ZN-AI-Chip	Detection of wearing a mask and sunglasses
ZNS-AI-A05	-	Vehicle recognition and differentiation of cars, buses, trucks, bicycles, motorcycles
ZNS-AI-A06	-	Identification of animals, refined by deep learning
ZNS-AI-A07	-	Personal detector for fisheye cameras
ZNS-AI-A08	-	Personal detector for thermal imaging cameras
ZNS-AI-A09	-	Fire detector
ZNS-AI-A10	-	Smoke Detection
ZNS-AI-A11	-	Detection of persons without / with safety vest
ZNS-AI-B00	-	Evaluate and send events
ZNS-AI-B01	-	Privacy Masking
ZNS-AI-C00	-	Vehicle number plate recognition
ZNS-AI-D00	-	Recognising people who have fallen
ZNS-AI-D01	-	Behavioural recognition "violence"
ZNS-AI-D02	-	Remote object detection
ZNS-AI-D03	-	Detection for appearing object