

A.I.S

ARTIFICIAL INTELLIGENCE SERVER

AIS - Artificial Intelligence Server - by Yumain is a rack-mount detection system particularly suitable for retrofitting onto existing video surveillance installations.

Thanks to the AIS's built-in technology, it detects and analyses risk situations in real time. The combination of image processing and artificial intelligence can drastically reduce non-detections and false positives.



Intelligent

At the cutting edge of technology, the AIS offers flexibility and the best security thanks to its various embedded applications.



Innovative

Improved safety, security, quality and productivity on all types of sites (industrial, transport, urban environment, etc.)



Ingenious

On-site system adjustment for a very high level of detection.

Retrofit on existing installations with no equipment changes.



Accessible

A technical solution overcoming known barriers: ethical, environmental, excessive overall costs (TCO), reaction time.

Front view



Rear view



PRINCIPLE OF OPERATION OF OUR SOLUTION

- Multi-sensor solution (cameras, radar external, etc.)
- Very high detection rate due to its use of dedicated databases.
- Proven reliability through the use of specific filters
- Quick and easy system configuration
- Modular solution

DETECTION CONDITION OPERATING CONDITIONS

- Indoor and outdoor scenes
- Day and night
- Night with or without infrared
- All seasons 1

Maximum number of cameras : 5

AIS CHARACTERISTICS

Relay outputs

Relay characteristics:

- Contact configuration: SPST-NO
- Contact current: 3A
- AC contact voltage: 250 VAC
- DC contact voltage: 30 VDC
- Contact resistance: 208
- Lifetime: 100x10³ operations
- Loaded switching frequency: 10 ops/min
- Unloaded switching frequency: 300 ops/min
- Operating temperature range: -30 °C to +85 °C

Mechanical and environmental data

Storage temperature	-20°C to +70°C
Operating temperature range	0°C to +60°C
Humidity range	5 ~ 95% non-condensing

Power draw

127 W (typical)

General characteristics

- Size (W x D x H): 482 x 88 x 480 mm (19" x 3.46" x 18.9")
- Mounting: 2U slot in a server rack
- Power supply required: 100 ~ 240 VAC (47 ~ 63 Hz)
- Weight: 10.5 kg
- System power supply: supply range from 100 to 240 VAC (47 ~ 63 Hz).
- System response time: from 150 ms to 1 s (max) depending on the number of cameras used.

Minimum detection distance	1 m ⁽²⁾
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Maximum detection distance⁽²⁾

- All seasons daytime: between 50 and 55 m approximately
- All seasons night-time: between 40 and 50 m approximately

Network protocol

IPV4

Number of controllable dry contacts

8

1. Extreme weather conditions can decrease detection quality

2. Using a Wisenet HD + XNB-6000P camera

Due to changes in standards and equipment, the characteristics given in the texts and images in this document are only binding after confirmation by our services.



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POSSIBLE APPLICATIONS



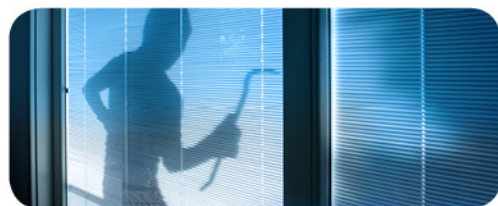
Prevention of pedestrian/vehicle collisions on industrial sites (Forklifts, nacelles, construction equipment)



Automatic analysis and extraction of surveillance images



Sécurisation et délimitation des zones de dangers (Docks: loading / unloading area, dangerous intersections)



Intrusion detection



Wearing of PPE (Detection of helmet not wearing in a defined area)



YUMAIN
Sensing & Predictive AI

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