

**SYNECTICS**

# Synergy DETECT

VAD-1010

A cutting-edge, AI-driven surveillance solution that automatically monitors, detects and alerts in real-time. From public safety and perimeter security to traffic management and workplace compliance, Synergy DETECT ensures optimal protection with minimal human intervention.

Offering unmatched flexibility and complete control, Synergy DETECT allows users to quickly adapt to changing security needs by reconfiguring detection types, monitoring areas, and cameras.



## Advanced AI-Powered Detection

### Real-Time Hazard Alerts

Immediate notifications of dangerous situations, allowing for rapid response and enhanced safety.

### High Accuracy Detection

Advanced algorithms minimise false alarms and ensure precise identification of people, vehicles, and behaviours.

### Easy Set-Up and Configuration

Effortless setup: Power on, activate licence, add cameras, configure solutions.

### Scalable

Supports both small and large-scale deployments, adapting to various environments and requirements.

### Customisable Detection Settings

Adjustable sensitivity, alarm schedules, and zone filtering tailored to specific operational needs.

### Camera-Agnostic Deployment

Works seamlessly with fixed, PTZ and thermal cameras, detecting events accurately even when the camera is in motion.

## Key Features

- Intrusion Detection
- PPE Monitoring
- Person-Down Detection
- Crowd Monitoring
- People and Vehicle Detection
- Traffic Flow Counting
- Hazardous-Area Monitoring
- Zone Entry Detection
- People and Vehicle Counting
- Stopped People and Vehicle Detection
- Wrong Direction Alert
- Loitering Detection

# Device Specifications

The stated performance of Synergy DETECT is based on using the dedicated hardware with the following specification.\*1

GENERAL		VAD-1010
Dimensions (W x H x D)	65 mm x 191 mm x 128 mm 2.56" x 7.52" x 5.04"	
Weight	1.85kg (4lbs)	
Operating Temperature	-20°C (-4°F) - 60°C (140°F) - with 0.7m/s airflow	
Operating Humidity	TBC	
Storage Temperature	-40°C (-40°F) - 85°C (180°F)	
Certifications and Approvals	FCC, IC, VCCI, BSMI, CCC, CE, KCC, CB, CE, CCC, BIS, GS, NDAA-Compliant	
Operating System	Linux	
System	Nvidia Jetson Xavier NX - 16GB RAM	
Storage	16GB eMMC and 512GB M.2 NVMe SSD	
POWER		VAD-1010
Power Supply	65W (100-240V 1.8A 50-60Hz)	
Typical Power Consumption (Based on Maximum Configuration)	Max 65W	
CONNECTIVITY		VAD-1010
Front	1x USB 2.0 Micro-B	
	1x HDMI 1.4 (unused)	
	4 x USB 3.2 G1 Type-A (unused)	
	1x MicroSD slot (unused)	
	1x CANBUS (unused)	
Rear	3.5mm audio jack (unused)	
	2x DB9 RS232 (unused)	
	2x 1Gbps RJ45 with PoE (15.4W) 1x power connector	
Mounting Options	VESA mount – 75x75 or 100x100 (screws included)	
VIDEO AND AUDIO		VAD-1010
Maximum Video Channels	10	
Supported Video Resolutions	Max: 1920 x 1080 px	
Video Codec Support	H.264, RTSP	
Video Frame Rate	Min. 1 fps, max. 10 fps	
MANAGEMENT		VAD-1010
Configuration Method	Web interface	
Firmware/Security Upgrades	Via web interface or on-device firmware update	
Minimum Synergy Version	24.2.100	

\*1 Multiple VAD-1010's can be configured to scale to the size of your estate and your requirements. To discuss your specific needs, please get in touch via the Synectics website.