

SYNECTICS

Synergy DETECT

VAD-1011

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-1011
Dimensions (W x H x D)		148 mm x 52 mm x 120 mm (5.83" x 2.04" x 4.72")
Weight		1.725 kg (3.8 lbs)
Operating Temperature		-20°C (-4°F) to 70°C (158°F)
Operating Humidity		95% @ 40°C (104°F)
Storage Temperature		-40°C (-40° F) to +85°C (185°F)
Certifications and Approvals		CE, FCC
Operating System		Linux
System		Nvidia Jetson Xavier NX - 16GB RAM
Storage		16GB eMMC and 512GB M.2 NVMe SSD
POWER		VAD-1011
Power Supply		12V DC 60W
Typical Power Consumption (Based on Maximum Configuration)		Maximum 60W
CONNECTIVITY		VAD-1011
Front		2x 1Gbps RJ45 Power connector 4x USB 3.0 Type-A (unused) Mic-in/line-out (unused)
Rear		1x USB 2.0 OTG 1x HDMI (unused) 1x COM RS-232/RS-422/RS-485 (unused) 1x CANBUS (unused)
Mounting Options		TBC
VIDEO AND AUDIO		VAD-1011
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-1011
Configuration Method		Web interface
Firmware/Security Upgrades		Via web interface or on-device firmware update
Minimum Synergy Version		24.2.100

*1 Multiple VAD-1011'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.