

# SYNAPSES AI

THE FUTURE OF PERIMETER PROTECTION



Synapses is an adaptive multisensor system that utilizes video analytics and deep learning to optimize the performance of your perimeter security system.



## Why is Synapses Innovative?

Beyond traditional video analytics: Synapses integrates video systems with perimeter security devices, creating a new “super-sensor.” Thanks to its built-in artificial intelligence, it harmonizes the entire external intrusion detection solution.

### Key Features

- ✓ **Neural Interaction:** Synapses enables interaction between video areas and perimeter sensors, dynamically adjusting sensor parameters based on the identified target.
- ✓ **Deep Learning Video Analysis:** Leveraging deep learning algorithms, Synapses classifies moving objects, reducing false alarms and increasing detection accuracy.
- ✓ **Sensor Self-Adaptation:** When it detects a moving object, Synapses communicates with CIAS digital sensors to dynamically adjust sensitivity thresholds, ensuring a higher probability of detection.

## User Benefits

- **Enhancing System Intelligence:** Synapses maximizes the intelligence of your security system, enabling better alarm management and improved discrimination of false positives.
- **Maximizing Performance:** With advanced video analysis and dynamic sensor adaptation, Synapses enhances the performance of your intrusion detection system, ensuring greater efficiency in perimeter protection.
- **Upgrading Existing Systems:** Synapses integrates with existing CCTV or perimeter systems, providing a flexible option to enhance the security of your spaces without the need for a complete system replacement.



IF THE MOVING OBJECT IS **CLASSIFIED AS AN ANIMAL**, SYNAPSES INFORMS THE SENSOR TO LOWER THE SENSITIVITY THRESHOLD, PREVENTING FALSE ALARMS.



IF THE MOVING OBJECT IS **CLASSIFIED AS A HUMAN**, SYNAPSES INFORMS THE SENSOR TO RAISE THE ALERT THRESHOLDS, INCREASING THE PROBABILITY OF DETECTION.

**With Synapses, the future of perimeter protection is already here. Enhance the security of your spaces with Synapses' cutting-edge technology.**

## TECHNICAL SPECIFICATIONS

Supports 1 video channel input (RTSP protocol - FULL HD)

Up to 8 video analysis areas with deep learning.

Up to 4 sensors can be paired with each of the 8 areas.

Configurable via any browser using an on-edge web server.

Remote software updates.

Real-time status visualization of areas and sensors through the outgoing video stream.

1 video stream output channel (RTSP, 25 FPS, 1920 × 1080).

Power supply: 5Vdc-4A with a dedicated power adapter.

Environmental Class I: Indoor operation (+5°C to +40°C).

Monitorable via IB-System IP or IB-System-Lite.

Mountable on DIN rail support.

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