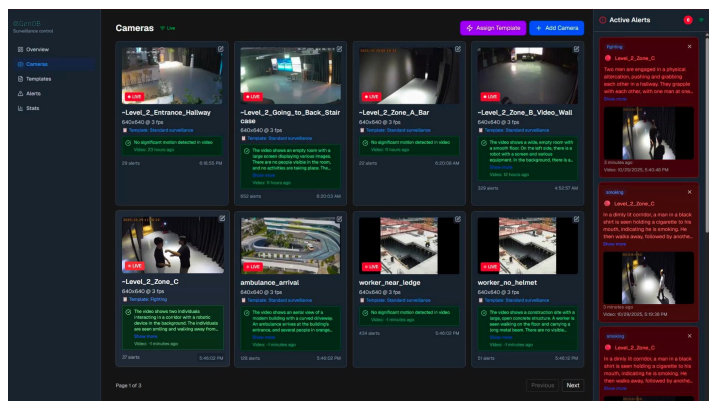


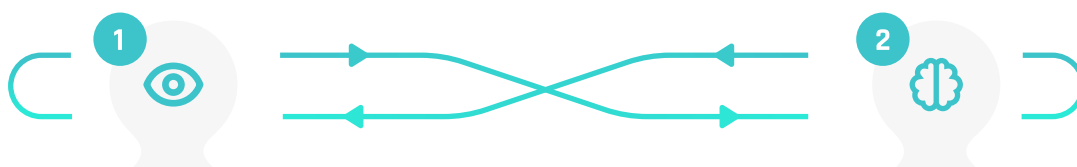


Meet GenOB!

GENERATIVE ENGINE FOR NEURAL OBSERVATION & BEHAVIOUR

An advanced, standalone AI engine, **GenOB** redefines what surveillance can do — constantly watching, continuously learning, and adapting to your use case to keep situational awareness at its peak, around the clock.

How does it work?



CONTINUOUS PROCESSING

GenOB relies on continuous Neural Observation—relentlessly processing high-definition visual data to track movements, identify objects, and scan environments.

BEHAVIOUR CONTEXTUALISATION

The system's behavior is its automated response: contextualizing these observations in real-time to detect anomalies and specific situational breaches.

3



FEEDBACK REFINEMENT LOOP

By creating a continuous feedback loop between what it sees and how it analyzes, GenOB filters out the noise to deliver highly granular, actionable reports tailored to your exact security parameters.

GenOB serves as the primary vision-based machine learning layer within your infrastructure. Neural Observation continuously ingests raw optical data, applying deep learning for object classification and feature extraction — free from operator fatigue. Behavior evaluates these observations against predefined baselines, converting raw video into structured data, granular alerts, and automated reporting that integrates with centralized analytics platforms.



Key Features

NEURAL OBSERVATION Optical Processing

A CCTV camera is merely a passive sensor; the actual "observation" occurs within the AI's neural layers. As high-definition video feeds enter the system, they are broken down and processed through layers of computational nodes.

- **Feature Extraction**
Initial neural layers do not see a "person" or a "car"; they observe shifts in pixels, edges, vectors, and movement paths.
- **Synthesis**
Deeper layers stitch these mathematical points together to identify distinct objects, map trajectories, and recognize complex environments.
- **Continuous Scanning**
AI performs a relentless, granular observation of every frame across multiple video streams simultaneously.

NEURAL BEHAVIOUR Contextualisation & Action

Observation alone is just data collection. "Behavior" refers to the AI engine's automated, analytical response to what it observes. It is how the system contextualizes events based on its programming and trained parameters.

- **Anomaly Detection**
The system compares real-time observations against established baselines of "normal" activity. If a highly specific parameter is breached (e.g., a perimeter intrusion, unattended baggage, or an unusual crowd density), the AI alters its operational state.
- **Analytical Response**
The AI's behavior manifests as generating detailed, structured data outputs—triggering alerts, logging the exact timestamp of an incident, or formatting the event for seamless integration into broader centralized video analytics interfaces and monitoring systems.

THE "RECIPROCAL RELATIONSHIP" The Machine Learning Loop

In a purely computational sense, the reciprocal relationship is the continuous feedback loop that drives system optimization.

- **Event Classification**
The system's observations inform its behaviors (e.g., classifying an event as an anomaly).
- **Accuracy Tuning**
Over time, the outcomes of those behaviors (whether the alert was accurate or a false positive) feed back into the neural network. This allows the mathematical weights within the AI engine to adjust, constantly refining how it processes future video feeds to deliver highly accurate, contextualized reporting.

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