

# **CBS-AAV-PER1 Perimeter (Alarm Management)** Al Alarm Verification



AI Alarm Verification is a cloud-based Video Content Analysis (VCA) service designed to verify human and vehicle events triggered by Bosch intelligent cameras. This service improves detection accuracy and reduces false alarms, leveraging advanced AI models hosted in the cloud.

The service integrates directly into the Alarm Management system via the Al Gateway, providing a unified interface for alarm management and alarm verification.

### Integration with Alarm Management application

Al Alarm Verification integrates seamlessly with the Alarm Management cloud-based application, enhancing operator efficiency by improving event verification. The integration is achieved through 2 core components:

- **Embedded Service**: Configurable directly within Alarm Management, allowing operators to receive real-time verification results
- **AI Gateway**: Connects Alarm Management to the Bosch cloud for alarm verification. Verification results are displayed in the Alarm Management interface

The Alarm Management application allows operators to adjust sensitivity settings to meet specific operational needs, ensuring optimal verification accuracy. Bosch recommends checking the verification threshold, and proper functionality, by conducting walk-tests.

For further information on AI Alarm Verification and IVA Pro, refer to the documentation available for download in the Bosch online catalog.

- Seamlessly integrates into the Bosch Alarm Management system via the AI Gateway, providing a unified interface for alarm management and verification
- Uses cloud-hosted AI models to verify alarms, enhancing detection accuracy for human and vehicle events while minimizing false positives
- Robust fallback mechanisms ensure alarm functionality remains active in case of connectivity issues or cloud service downtime

# Functions

After the registration in the Remote Portal, the license activation and the configuration of the Alarm Management Perimeter service, the service provides feedback to the operator based on the cloud service's verification results. These results include:

- Verified: the alarm triggered by the camera was correct
- Rejected: the alarm triggered by the camera was not correct
- Unverified: the alarm from the camera could not be verified

The service allows users to configure how verified, rejected, or unverified alarms are displayed. You can adjust the sensitivity of the service, specifying that alarms should only be verified when high-confidence results are achieved.

If the cloud service cannot be reached, all alarms are shown to the operator as a fallback, and logs are generated to notify of any connectivity issues. In any case, all alarms are always received in the client application. Independent of the results, alarms are stored in the Alarm Management archive for the defined retention time of your Alarm Management instance.

# Frequency and volume of requests

- Scalable request limits: The service efficiently handles increasing loads
- **Absolute request limits:** The service defines specific limits per camera to ensure consistent performance. Bosch applies a fair-use principle with a maximum request limit. For further

information, refer to the Service description document available for download in the Bosch online catalog.

### **Operational requirements and system availability**

- **Fallback alarm**: The system triggers fallback alarms if errors such as web service unavailability or exceeded request limits occur
- **Display setting**: You can select whether rejected alarms shall also be shown to the operator alarm list or directly be sent to the archive
- **Log integration**: Feedback from the AI service are integrated into the system logs for review in the diagnosis module
- Adjustable sensitivity: You can modify the filter strength of the AI detector to match your detection sensitivity requirements

### **Regulatory information**

# (i) Notice

# Disclaimer

This software is not designed, intended, or authorized for use in any type of system or application in which the failure of the software could lead to a risk to health and safety. The user is responsible to verify that the software and its specified functionalities are suitable for the intended application, in particular with respect to accuracy, safety and security.

# Parts included

# Quantity Component

1

Set-up of a cloud-based perimeter alarm verification service for IVA Pro Perimeter in Alarm Management

### **Technical specifications**

## **Device requirements**

Compatible Bosch cameras with activated IVA Pro Perimeter and support for continuous recording. The camera must be correctly configured, and must comply with the application requirements or restrictions

### **Network requirements**

Bosch recommends a minimum upload bandwidth of 10 Mbit/s. This recommendation can be different depending on camera type, settings, and alarm scenarios. A lower bandwidth can cause longer processing times for verification results. A lower bandwidth can also cause more timeouts, leading to an increased number of fallback alarms

### Licensing and management

A system integrator setting up the service requires a Remote Portal account and must assign a license to the camera.

The registration process for the gateway follows a defined process in the Remote Portal. Licenses for AI Alarm Verification services are

managed and activated in the Remote Portal. Bosch recommends using the latest camera firmware and the latest Alarm Management software version.

# **Ordering information**

#### CBS-AAV-PER1 Perimeter (Alarm Management)

Cloud-based perimeter alarm verification service for IVA Pro Perimeter in Alarm Management Order number **CBS-AAV-PER1** 



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