



On-Duty Sleep Detection

Overview

Operational Logic and Behavior Definition



On-Duty Sleeping is behavior associated mostly with office or factory employees using desks and seats.

- Employees are expected to fulfill tasks and stay active during working hours.



Detection Logic: When a person puts their head on the desk and stays motionless for a defined period of time.

Result: The AI-based surveillance system triggers an alarm.

Features



Motionless head detection

Specifically identifies when a subject's head rests on the desk surface.



Customizable working hours

Configure the system to only monitor during specific shift times to reduce false positives.

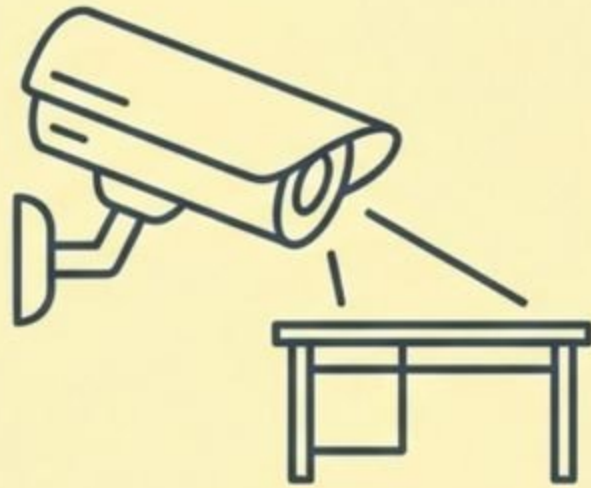


Idleness threshold

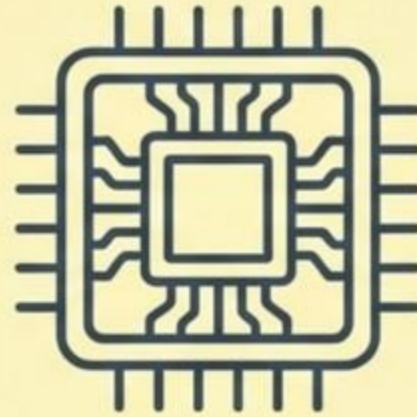
Define the specific duration of inactivity required to trigger the alarm.

Architectures

Deployment Topology



Desks in Camera View
(Camera must clearly
view desk area)



AI Analysis
(Motionless +
Time Threshold)



Alarm Trigger

Applications



HR & Management

Context: Large open offices and factories.

Use Case: Does not necessarily need immediate intervention; used for later assessment.



Critical Security

Context: Security officers at gate booths.

Use Case: Triggers an instant alarm due to high security risks at the post.



Service & Retail

Context: Reception desks (hotels) or check-out counters.

Use Case: Prevents sleeping employees from affecting service quality and business reputation.

Solutions

Integration & Server-Side Capabilities

Core Integration

Works with ACTi ZNR-series NVR or Windows-based NVR 3 servers.

Event Handling



Video Pop-up



Sound Alert



Email Alert



NVR-Side AI Capability

Latest ZNR-series NVR servers feature built-in Sleep Detection capability.

Enables sleep detection on regular surveillance cameras without built-in AI.

Product Introduction

Product Matrix



Zoom Bullet Cameras

A220 2MP Resolution, 4.3x optical zoom, Extreme WDR, Built-in Analytics

A427 4MP Resolution, 4.3x optical zoom, Adaptive IR, Extreme Low Light Sensitivity

A428 4MP Resolution, 4.3x optical zoom, Adaptive IR, Extreme WDR

Product Introduction

Comparison

Feature	A220	A427	A428
Resolution	2MP	4MP	4MP
Optics	4.3x Optical Zoom	4.3x Optical Zoom	4.3x Optical Zoom
Lighting Tech	Day/Night, Extreme Low Light	Day/Night, Adaptive IR, Extreme Low Light	Day/Night, Adaptive IR
Analytics	Built-in Analytics	Built-in Analytics	Built-in Analytics

Summary



Intelligent Monitoring

Automated detection of motionless behavior and idleness based on configurable thresholds.



Flexible Deployment

Available via Edge AI (Camera) or Server AI (ZNR NVR) for legacy system upgrades.



Versatile Application

Critical for security posts (immediate risk) and valuable for service industries (reputation management).

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