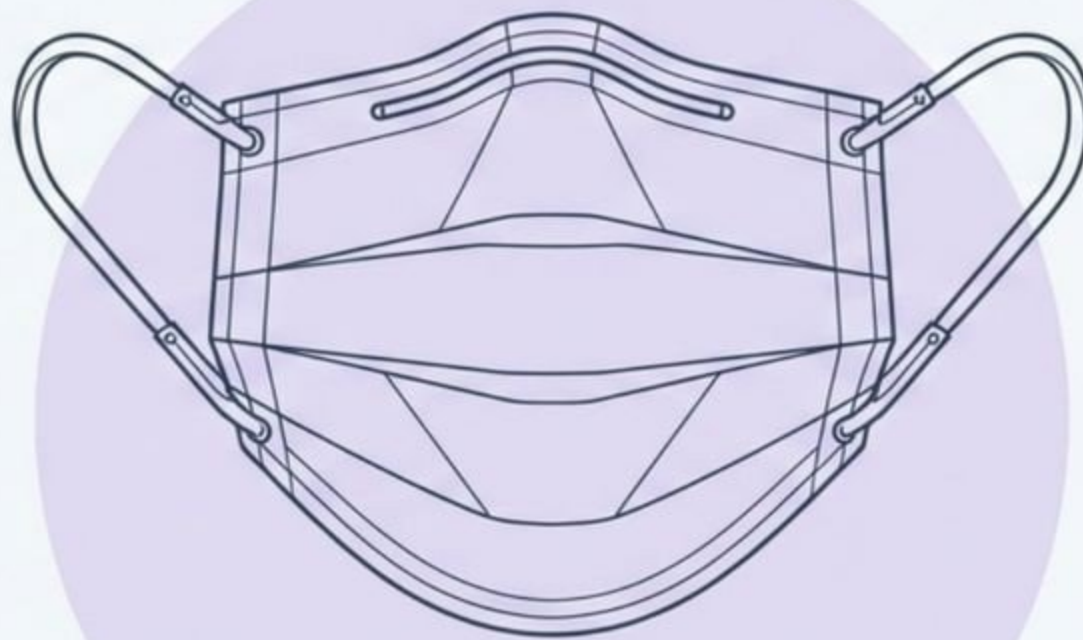


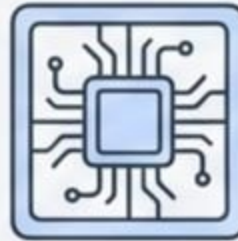


Mask Detection

Overview

What is Mask Detection?

Surveillance system capability using video analytics to determine whether a person is wearing a protective mask or not.



Edge Processing
(Inside ACTi IP Camera)

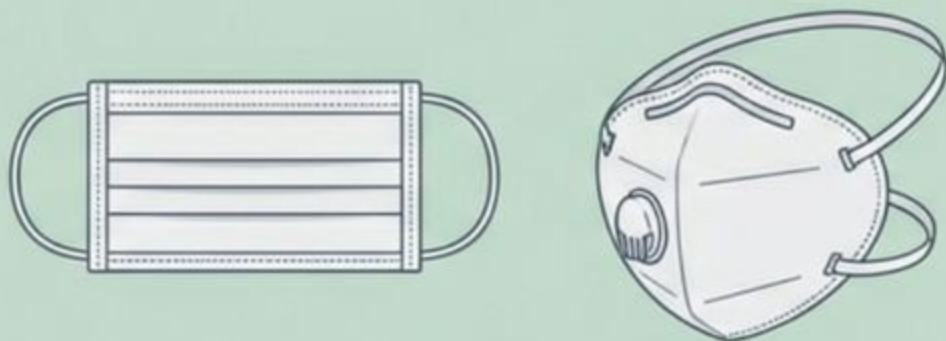


Server Processing
(Inside ZNR-series NVR)

Features

Supported Capabilities

- Disposable Surgical Masks
(Colors: Blue, Purple, White, Black, Red, Green)
- N95-style Masks
(Colors: Black, White)



Precision Constraints

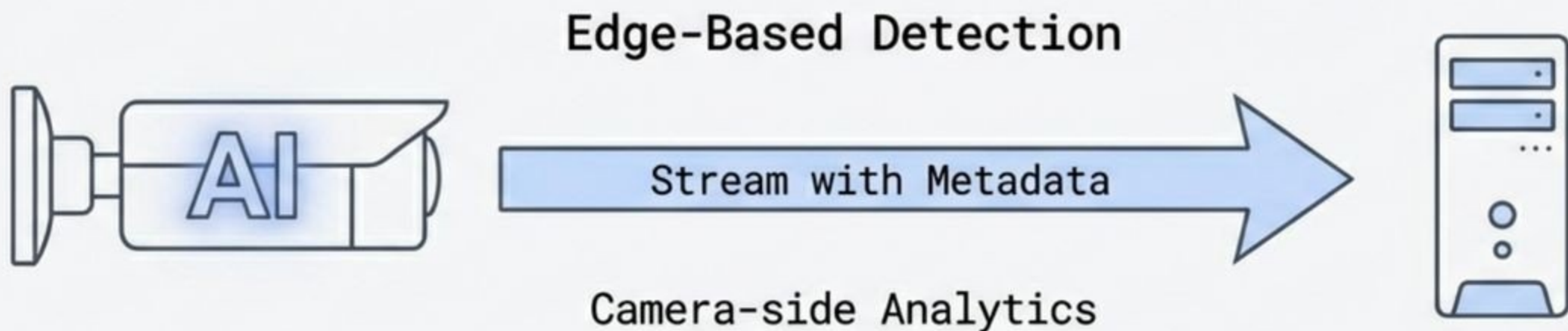
Skin-tone masks are explicitly excluded to avoid false positive or false negative alerts.

Excluded Colors:

- Beige
- Pink
- Brown
- Other skin tones



Architectures



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

Applications



Hygiene Compliance

Restaurants & Food Service
Ensuring kitchen staff wear masks at all times.



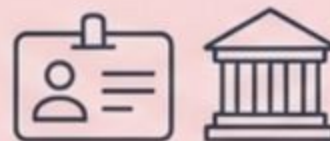
Health & Science

Hospitals & Special Labs
Mandatory visitor masking.



Pandemic Protocols

Schools, Airports, Retail
General public safety compliance.



Identity Verification

Banks & High Security
"Negative" Detection: Alert when a person IS wearing a mask, impeding identification.

Solutions

Input Source

ACTi Mask Detection
Cameras
OR
ZNR-series NVR



Management Platform

Windows-based NVR
3 Servers
OR
ZNR Embedded VMS



Event Handling



Video Pop-up

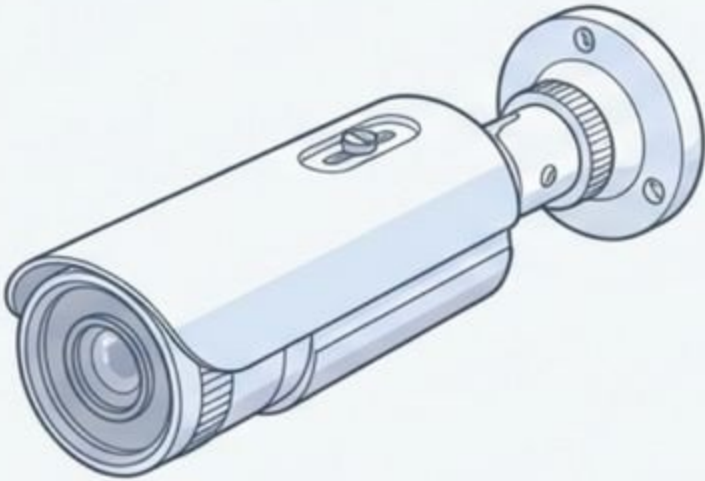


Sound Alert



Email
Notification

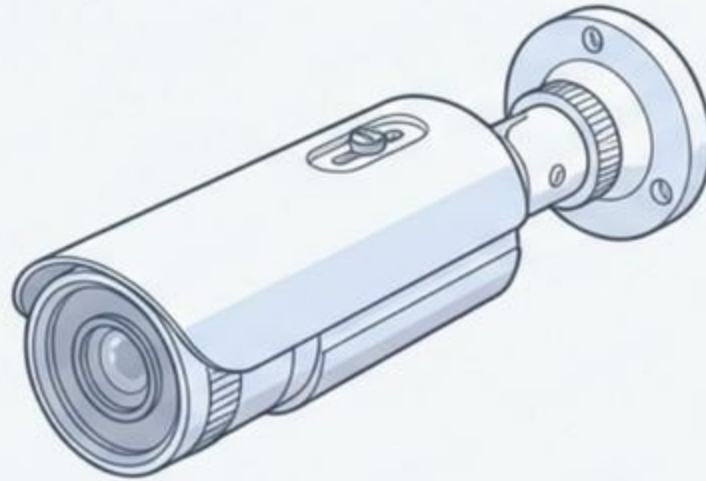
Product Introduction



2MP Zoom Bullet

10x Optical Zoom

Roboto Mono, #334155



5MP Zoom Bullet

12x Optical Zoom

Roboto Mono, #334155



AI Server

NVR-side Analytics

Roboto Mono, #334155

Product Matrix

Model	Type	Key Specifications
Z415	Zoom Bullet	2MP, 10x Optical Zoom, Extreme WDR, Built-in Analytics
Z416	Zoom Bullet	5MP, 12x Optical Zoom, Extreme WDR, Built-in Analytics
ZNR-224	Standalone Server	NVR with AI capabilities

Comparison

Shared Features: Day/Night functionality, Extreme WDR, Extreme Low Light Sensitivity, Built-in Analytics



Z415

2 Megapixel Resolution

10x Optical Zoom



Z416

5 Megapixel Resolution

12x Optical Zoom

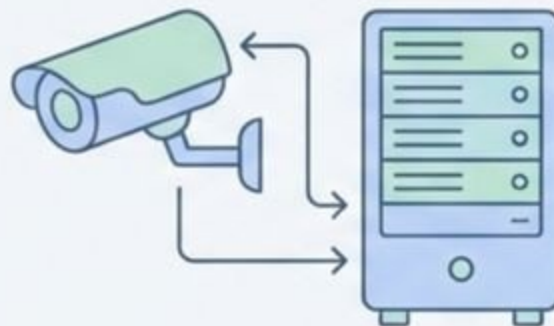
Summary



01

Intelligent Precision

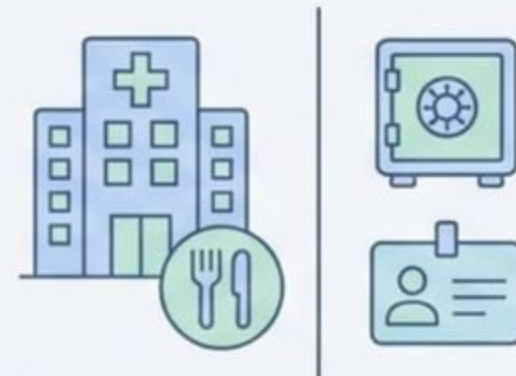
Detects specific mask types (Surgical, N95) and colors while filtering out skin tones to reduce false alarms.



02

Flexible Architecture

Deploy AI at the edge (Cameras) or on the server (ZNR Series) to fit any legacy or new installation.



03

Versatile Application

Suitable for both hygiene compliance (Restaurants/Hospitals) and security alerts (Banks/Identity).

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