

# Vaidio® AI Vision Platform

## SCENE CHANGE DETECTION



**Use the power of AI to immediately detect unexpected changes—from objects to people to scenery—anywhere, anytime.**

### The Challenge

In public and private settings of all kinds, situations can change rapidly. Detecting and responding to that change quickly can protect people and property, but it is a challenge. Traditional CCTV cameras require discipline, diligence, and costly human labor to monitor scenes for changes or anomalies. Often, these efforts fall short. Leaks go unnoticed. Incidents are missed in the blink of an eye. In manufacturing facilities, retail environments, schools, hospitals, transit stations, and other public venues, an overlooked change can put people at risk and result in costly damage to equipment, inventory, and facilities.



### The Solution

Vaidio Scene Change Detection uses advanced Vaidio AI to detect when changes occur and alert users immediately. Extending beyond basic field-of-view or intrusion detection to assess entire scenes in context, Vaidio Scene Change detects damage to vehicles or facilities, road conditions (potholes, downed trees), weather conditions (snow), leaks, objects left behind, objects removed (art galleries), and more.

Always on and always accurate—whether it is monitoring a dozen cameras or a thousand—Vaidio AI detects any type of change, be it fast or gradual. Vaidio Scene Change recognizes anomalies, sends immediate alerts to enable rapid response and mitigation, and understands context to minimize false alerts.

Vaidio Scene Change is one of a suite of 30 advanced AI video analytics functions supported by the Vaidio AI Vision Platform. Vaidio works with any new or existing IP camera, and multiple Vaidio video analytics can be applied to a single camera. With Scene Change and the Vaidio Platform, users in any environment can better protect property and ensure safety—even when the unexpected happens.

### Features

- AI-enabled scene change detection for objects, people and conditions
- Monitors activity and detects anomalies in occupied and remote areas
- Detects changes without specifying a specific object type or event
- Detects changes over any period time: seconds (tree falling) to hours (liquid leaking) to months (potholes forming)
- Provides immediate alerts when change is detected and parameters are met

### Benefits

- Improved overall security, safety, damage prevention and loss prevention operations
- Reduced labor and overhead, improved monitoring accuracy
- Improved response time and incident resolution
- Increased return on investment from existing camera and VMS infrastructure
- Additional operational efficiencies when other Vaidio video analytics are added on



[www.aicuda.world](http://www.aicuda.world)



[sales@aicuda.world](mailto:sales@aicuda.world)



Ketelven 2, 5464 PS  
Veghel, the Netherlands

Vaidio CCT is part of a suite of advanced AI video analytics functions supported by Aicuda's Vaidio AI Vision Platform. IDC recognizes Vaidio as "a good decision for enterprises that have extensive video surveillance capabilities and want to upgrade to advanced analytics that incorporate the latest technology." IDC MarketScape, Video Surveillance Analytics, Nov 2021.



## Architecture



"We have been deploying the AI video analytics Vaidio software platform at the New Jersey Transit train stations, rail cars and buses. The performance of Vaidio software has certainly met our expectations in speed, accuracy, and overall ease-of-use requirements. In addition, the customer support team offers New Jersey Transit excellent technical and business support services."

- Office of Information & Digital Technology, New Jersey Transit



"Out of hundreds of solutions we've worked with, Vaidio is one of a handful that ranks highest in terms of platform maturity and driving real-world customer value."

- Jumbi Edulbehram, Global Business Development, AI-City, Nvidia

## About Aicuda and Vaidio®

Aicuda's SIA award-winning Vaidio Platform offers more than 30 advanced AI video analytics functions to bring intelligence and accuracy to existing camera and video infrastructures. Our mission: to build a safer, smarter world by helping our customers improve security, safety, health, and operational efficiency.



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