

# AI-Enabled Analytics



## Next generation artificial intelligence analytics

The Vaidio™ AI Vision Platform orchestrates multiple AI video analytics engines to provide higher accuracy and lower total costs across the industry's broadest array of video analytics. Vaidio solutions are deployed by government organizations, airport and maritime authorities, defense departments, schools and campuses, manufacturing and healthcare facilities and other critical infrastructure organizations across the globe to rapidly detect, track, identify, search and view thousands of objects and receive real-time notifications of critical events. Vaidio's patented self-learning video analytics software seamlessly integrates with a large variety of 3rd party products.



### 📍 Crowd Management

- Aggression Detection (Q4-2021)
- Crowd Detection
- Crowd Counting (< 30)
- Loitering Detection
- Measuring Crowd Density
- Queue Detection
- Reverse Movement Detection People
- Tailgating
- Vandalism
- Wandering Detection
- Abandoned Object Detection
- New Object Detection
- Removed / Missing Object Detection
- Object Classification



## 📍 Equipment Status Detection

- Breaker Status Detection
- Change In Text Detection
- Corrosion Detection
- Fan Status Detection
- Filter Status Detection
- Knife Switch Position Detection
- LED Status Detection
- Needle Position Detection
- Oil / Water Leakage Detection
- Spark Detection
- Temperature Detection

## 📍 Identification of People

- Age & Gender Detection
- Colour of Clothing
- Face Recognition
- Face Search / Face Capture
- Missing Person
- Mobile Phone Detection
- People Tracking
- Personal Attributes Detection (bags, hats etc.)



## 📍 Incident Management

- Dashboard and statistics
- Event Integration
- Incident Classification
- Incident logging
- Maintenance / Health Check Reports
- Scheduled Incident Reports





## 📍 Infrastructure Management

- Area Occupation Detection
- Heatmapping
- Path Analysis
- People Counting
- Vehicle Counting

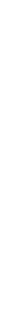


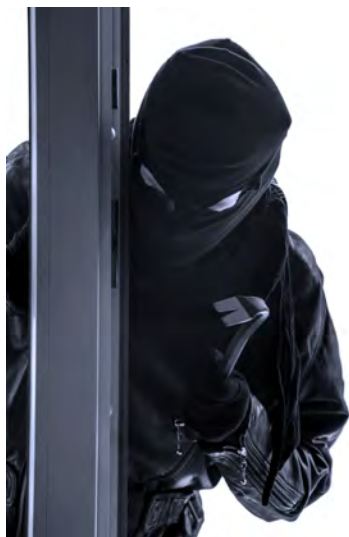
## 📍 Personal Protection Equipment

- Crouch / Fall Detection
- Gloves Detection
- Helmet / Hard Hat Detection
- Safety Vest Detection
- Smoking Detection
- Uniform Detection

## 📍 Traffic Management

- |                                    |                                       |  |
|------------------------------------|---------------------------------------|--|
| • Abandoned Vehicle Detection      | • Level Crossing Violations           | • Pedestrian In Tunnel Detection             |
| • Accident Detection               | • License Plate Recognition           | • Pedestrian On Road Detection               |
| • Car Stop in Tunnel Detection     | • Line Crossing Detection             | • Wrong Way / Ghost Driving                  |
| • Changing Lane Detection          | • Make & Model Detection              | • Slow Vehicle / Queue Detection             |
| • Container ID                     | • Obstacle in Road Detection          | • Speed Detection                            |
| • Double Parked Vehicle Detection  | • Occupancy Measurement Detection     | • Speed Penalty Detection                    |
| • Dynamic Zone Intrusion Detection | • Overcrowding & Congestion Detection | • Stop / Stationary Vehicle Detection        |
| • Hard Shoulder / Breakdown Lane   | • Illegal Parking Detection           | • Traffic Classification                     |
| • Human Enter / Exit Vehicle       | • Parking Occupancy                   | • Traffic Detection - Traffic Flow & Density |
| • Illegal Parking Detection        | • Parking Spot Detection              | • Vehicle Classification                     |
| • Illegal Turn Detection           | • Parking Statistics / Dashboard      | • Vehicle Colour                             |
| • Kiss and Ride (airports)         | • Parking Time Out                    | • Vehicle Tracking                           |





## 📍 Security Management

- Restricted Area Intrusion Detection
- Detection Of A Virtual Line
- Fence Protection
- Motion Detection
- Perimeter Protection
- Tampering Detection
- Animal Detection



## 📍 Social Health Analytics

- Contact Tracing Detection
- Facemask Detection
- High Body Temperature Detection
- Occupancy Detection
- One Direction Detection
- Social Distancing Detection



## 📍 Safety Management

- Gun Shot Detection (upon request)
- Smoke & Fire Detection
- Weapon Detection



## 📍 Other Functions & Tools

- |                                    |                                       |                                    |
|------------------------------------|---------------------------------------|------------------------------------|
| • 24/7 Support Service             | • Docker / Container VSaaS            | • PTZ Auto Tracking (upon request) |
| • Camera Health Management         | • Event / Alarm Integration           | • Quality Inspection               |
| • Camera Sabotage / Failure        | • Event Search                        | • Server, Edge and Cloud Solutions |
| • Centralized Metadata Search      | • Forensic Meta Data Search           | • Site Map                         |
| • Cyber Security Threat Management | • 3rd Party Integration (Rest API)    | • Smart Client Plugin              |
| • Dashboard / Reports              | • Management Plugin                   | • Vaidio - Do It Yourself          |
| • Data Exporting Tools             | • Metadata Overlay                    | • Virtualization                   |
| • Data Visualization Tools         | • Privacy Blur Faces / License Plates |                                    |

