



## 1. Product Overview & Deployment

Parameter	Specification	Acceptance Criteria
Product Type	AI-based Video Analytics software for real-time analysis of CCTV/video feeds and automated incident detection.	Suitable for safety, security, operations monitoring and command centre automation.
Deployment Model	On-premises, private cloud or hybrid deployment.	Final model to be aligned with client IT and cybersecurity policy.
Analytics Processing	Supports live stream analytics and recorded video analysis depending on module and integration availability.	Processing may be configured camera-wise and use-case-wise.
User Interface	Web-based dashboard for live alerts, camera-wise analytics, event history, reports and administration.	Accessible only to authorised users.
Multi-Site Operation	Supports camera grouping by site, building, floor, zone, gate, perimeter, platform or any client-defined location hierarchy.	Useful for centralised control room monitoring.

## 2. Core Video Analytics Use Cases

Parameter	Specification / Requirement	Acceptance Criteria
Intrusion Detection	Detects unauthorised entry into defined virtual zones, restricted areas, perimeter lines or no-entry regions.	Region of interest and schedule is configurable.
Line Crossing Detection	Detects movement across a configured virtual line in a defined direction.	Applicable for perimeters, gates, tracks, restricted zones and one-way movement monitoring.
Loitering Detection	Detects persons remaining within a defined area beyond a configured duration.	Duration threshold shall be configurable.
Crowd Detection	Detects crowd formation or occupancy beyond defined threshold in a monitored area.	Threshold shall be configurable as per camera view and site requirement.
Unattended Object Detection	Detects objects left unattended in a defined area beyond configured time.	Object size and time threshold shall be configurable.
Object Removal Detection	Detects removal/displacement of a predefined object from a monitored location.	Useful for asset protection and critical area monitoring.
Camera Tampering	Detects camera view obstruction, masking, defocus, sudden scene change or tampering condition.	Alert shall be generated when camera visibility is affected.
People Counting	Counts people entering/exiting through a defined line or area.	Accuracy depends on camera angle, crowd density and scene conditions.

# VIDEO ANALYTICS (VA) SOFTWARE

Technical Specifications & Data Sheet



Parameter	Specification / Requirement	Acceptance Criteria
Vehicle Detection	Detects and classifies vehicle presence in configured areas where applicable.	Can be used for parking, gate and traffic monitoring.
PPE / Safety Violation	Can detect configured safety compliance violations such as helmet or safety gear absence, subject to project scope.	Applicable only where selected and trained/configured for the use case.

## 3. Camera, Input & Configuration

Parameter	Specification / Requirement	Remarks / Acceptance Criteria
Video Input	RTSP stream, ONVIF-supported camera stream, VMS stream, NVR feed or recorded video input, subject to device/API availability.	Integration depends on stream accessibility, credentials and network routing.
Supported Media Formats	Common IP camera streams using H.264/H.265 and recorded media as per supported formats.	Codec and playback integration may vary by VMS/NVR.
Camera Placement	Camera shall provide stable, unobstructed and properly framed view of the analytics area.	Analytics performance depends heavily on scene quality and camera position.
Region Configuration	Supports camera-wise configuration of virtual lines, zones, direction, threshold, schedule and sensitivity.	Authorised users shall be able to update analytics rules.
Scene Conditions	Adequate lighting, stable camera mounting, minimal glare, low motion blur and clear field of view are recommended.	Heavy rain/fog, shadows, crowd overlap and camera vibration may affect performance.

## 4. Alerts, Dashboard & Reports

Parameter	Specification / Requirement	Remarks / Acceptance Criteria
Real-Time Alerts	Generates alerts for configured analytics events such as intrusion, line crossing, loitering, crowd, unattended object, camera tampering and safety violations.	Alert shall include snapshot/video clip reference, camera, location, time and event type.
Alert Handling	Supports active alert display, acknowledgement, filtering, severity tagging and historical event review.	Alert lifecycle shall be traceable.
Event Search	Search events by use case, camera, location, severity, date, time and alert status.	Useful for investigation and incident review.
Reports	Analytics event report, camera-wise report, use-case-wise report, alert status report, user activity log and audit trail.	Export to Excel/CSV/PDF subject to project requirement.

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Event Record	Each event shall capture timestamp, camera/location, analytics rule, event snapshot/clip reference and action status.	Retention period shall be configurable.

## 5. Integration, Security & Compliance

Parameter	Specification / Requirement	Remarks / Acceptance Criteria
Integration Interfaces	REST API/JSON-based integration with VMS, command centre, alarm system, notification gateway and third-party dashboards.	Integration requires API/SDK/documentation from third-party systems.
VMS Integration	Analytics alerts can be linked with live view, playback, camera pop-up and event overlay subject to VMS capabilities.	Final behaviour depends on VMS API support.
Role-Based Access	User roles such as administrator, supervisor, operator and viewer shall control access to live alerts, reports and configuration.	Rule editing and deletion shall be restricted.
Audit Trail	System shall log user login/logout, analytics rule changes, alert acknowledgement, report downloads and configuration updates.	Logs shall be available for authorised review.
Data Protection	Supports secure user access, configurable retention, restricted exports and secure communication where enabled.	Client shall define data retention and security policy.

**Note:** Specifications and performance characteristics are subject to final site survey, camera quality, network environment, and project-specific configuration. All integrations require appropriate API/SDK access from third-party system providers.