

PRODUCT OVERVIEW

CamSense AI

The Intelligent Vision Layer for Industrial Operations

Transforming your existing camera infrastructure into real-time AI-powered operational intelligence.



AI-
DRIVEN



COMPLIANCE-
FOCUSED



ENTERPRISE
READY



BEYOND SURVEILLANCE. INTO INTELLIGENCE.

Built on Deep Industrial & AI Expertise

Apexa Group develops intelligent enterprise technologies that drive operational excellence across AI systems, industrial automation, and digital transformation. We combine deep industrial understanding with scalable AI engineering to deliver measurable outcomes.



Technical Precision

Engineered for accuracy in high-stakes environments



AI Innovation

Cutting-edge machine learning at industrial scale



Industrial Focus

Deep understanding of operational workflows



Customer-Centric Delivery

Partnership-driven implementation

Traditional Monitoring Has Critical Blind Spots



How Industries Monitor Today

- Manual supervision & physical inspection
- Passive CCTV recording (no active intelligence)
- Reactive investigations after incidents occur
- Manual audit logs — editable, unreliable
- Human fatigue driving inconsistent oversight



The Risks This Creates

- SOP violations go undetected
- PPE non-compliance missed in real time
- Unauthorized access not flagged instantly
- Cross-contamination incidents preventable but not prevented
- Expensive batch losses from post-process discovery

The result: Operational inefficiencies, safety risks, compliance failures, and costly production losses.

Your Cameras Are Recording — But Not Watching

1

Manual Oversight Risks

Heavy reliance on physical inspection leads to inconsistent SOP adherence, missed violations, and human error.

2

Reactive Monitoring

Errors are caught at the lab or QC stage after the damage is done. Batch losses are expensive and avoidable.

3

Personnel-Induced Violations

Unauthorized zone movement, missed gowning, poor hygiene practices — these bypass standard IoT sensors entirely.



Traditional CCTV records events. CamSense actively prevents them.

An AI Brain Layered Over Your Existing Cameras

CamSense AI transforms ordinary CCTV infrastructure into an always-on operational intelligence system. It continuously analyzes human activity, behavioral compliance, PPE adherence, and safety risks — in real time, 24/7.



The Visual Brain

An AI-driven monitoring layer that sits atop existing camera systems to detect, learn, and alert based on real-time human activity.



Active Intelligence

Moves your infrastructure from passive recording to proactive detection of process deviations — before they cause damage.



Non-Intrusive Deployment

Operates on your existing CCTV without disrupting workflows or requiring any new hardware investment.

From Camera Feed to Intelligent Action

1

2

3

4



Connect

Integrates directly with existing IP cameras. No hardware replacement. Setup in hours.



Analyze

The AI engine continuously processes live video — human movement, PPE usage, zone access, SOP behavior, activity patterns.



Detect

The system identifies violations, safety risks, unauthorized activity, and operational deviations as they happen.



Respond

Instant alerts via SMS, Email, Telegram, or dashboard — plus immutable audit logs and compliance records.

30+ AI Capabilities. One Platform.



PPE Compliance

Detects helmets, gloves, masks, hairnets, safety jackets, and cleanroom gowns in real time.



Zone & Access Control

Restricted area monitoring with instant unauthorized access alerts and role-based permissions.



SOP Adherence

Automated, unbiased tracking to ensure processes are followed exactly as defined.



Personnel Tracking

Monitors individual movement across all operational zones with smart tracking.



Event-Based Alerts

Immediate routed notifications triggered by violations, safety breaches, or process deviations.



Audit Evidence

ALCOA+ locked, timestamped, non-editable digital records ready for any compliance inspection.

Automatic Number Plate Recognition (ANPR)



Entry-Exit Logging

Captures and timestamps every vehicle number plate at gates, docks, and parking entries in real time.



Gate & Barrier Automation

Auto-triggers barrier release for authorized vehicles, removing manual checks at entry points.



Blacklist & Watchlist Alerts

Instantly flags unauthorized, blacklisted, or suspicious vehicles the moment they approach a gate.



Parking & Occupancy Analytics

Tracks parking utilization, dwell time, and space availability across every zone.



Multi-Gate Vehicle Tracking

Follows vehicle movement across multiple gates, docks, and locations from one dashboard.



Visitor vs. Fleet Recognition

Differentiates company fleet, employee, and visitor vehicles for role-based access and reporting.

AI-Powered Attendance — No New Hardware Required

CamSense AI enables touchless attendance via existing CCTV using facial recognition. No biometric devices. No RFID. No manual registers.

Face Recognition

Auto-identifies employees via camera — instant, zero contact.

Real-Time Tracking

Entry/exit, shifts, late arrivals tracked live.

Multi-Camera Sync

Track across all gates, floors, plants.

Central Dashboard

Attendance, reports, logs in one place.

Smart Alerts

Instant alerts for unauthorized entry.

Touchless

No fingerprint, RFID, or manual log.

BUSINESS BENEFITS

- **Eliminate Buddy Punching** - AI verifies actual physical presence
- **Real-Time Visibility** - Instant data across all locations
- **Improved Accuracy** - Removes human error from records
- **Better Compliance** - Secure, timestamped audit records
- **Operational Efficiency** - Reduces manual HR workload

IDEAL FOR



Manufacturing



Warehouses



Corporate



Pharma



Construction



Logistics

99.8%

ACCURACY

ATTENDANCE PROTOCOL: ACTIVE

<1s

RECOGNITION

FACIAL ID: PROCESSING...

24/7

MONITORING

Built for Any Environment Where Operations Matter



Pharmaceutical Manufacturing

GMP compliance · Cleanroom monitoring · Hygiene enforcement · Schedule M readiness



Chemical Industry

Hazardous zone control · PPE enforcement · Security surveillance · Incident prevention



FMCG & Food & Beverage

Production counting · Conveyor monitoring · Quality assurance · Workflow visibility



Warehousing & Logistics

Material traceability · Intrusion detection · Vehicle tracking · Inventory visibility



Construction & Heavy Industry

Machine zone protection · Worker safety · Virtual boundary enforcement



Enterprise & Corporate

Centralized multi-site monitoring · Workforce analytics · Intelligent security

PROVEN AT SCALE

Trusted by Industry Leaders Across India



JCB India



Jubilant Ingrevia



RR Kabel



Jio



Silver Consumer



Indstaal



AMFI

Deployed across manufacturing, pharma, logistics, chemical, FMCG, and enterprise environments pan-India.

Virtual Boundary Safety at JCB Machine Bays

Challenge

Workers in high-risk machine bays had no real-time protection. Physical barriers and manual checks were insufficient, and incidents were discovered only after the fact.

CamSense Deployed

- Virtual red zones mapped over existing CCTV
- Real-time human detection near active machinery
- Instant audio siren + flashing alert on breach
- Automated machine shutdown with zero delay
- Zero new hardware investment

 **CamSense turned a high-risk factory floor into a self-monitoring AI safety environment — with zero capex.**

RESULTS

95%

Reduction in machine bay accidents

Real-time

Breach detection speed

Instant

Alert response time

Rs 0

Additional hardware cost

Impenetrable AI Security at a High-Stakes Chemical Facility

✓ CamSense Deployed

- Biometric face-scan access at all entries
- Perimeter face recognition pre-entry
- Smart tracking across all zones
- Centralized live dashboard
- Automated compliance reporting

△ Challenge

Surveillance blind spots, unauthorized access attempts, and slow incident response created ongoing security and compliance risks.

RESULTS

95%

Reduction in unauthorized access

98%

Face recognition accuracy

80%

Faster incident response

100%

Regulatory compliance

99.9%

System uptime



From vulnerable to impenetrable — with full audit automation.

99.5% Counting Accuracy at a Bottled Water Manufacturer

⚠️ Challenge

Manual counting on high-volume conveyor lines caused persistent inventory mismatches, lengthy audits, and scalability constraints.

✓ CamSense Deployed

- AI visual counting zones on existing conveyors
- Real-time production tracking
- Fine-tuned detection for bottle size, speed, position
- Zero new hardware required

💡 A chronic bottleneck turned into a competitive advantage — without replacing a single camera.

RESULTS: BEFORE vs AFTER

Metric	Before	After	Change
Counting Accuracy	85%	99.5%	+14.5%
Error Rate	Frequent	Rare	-90%
Audit Time	Hours	Minutes	-80%
Hardware Cost	High	Low	-40%

End-to-End Security Transformation for a Large Industrial Organization

△ Challenge

Sprawling facilities with unmonitored gatherings, perimeter breaches, untracked scrap trucks, and absent security guards.

5 AI MODULES ACTIVATED



Crowd detection at gates



Perimeter intrusion detection



Scrap truck AI tracking



Guard compliance verify



Centralized dashboard

RESULTS (12 MONTHS)

92%

Reduction in unauthorized gatherings

45%

Drop in intrusion attempts

99%

Guard compliance accuracy

<2min

Response time (from 10min)

78%

Security efficiency increase



Fragmented monitoring replaced by centralized AI operational intelligence.

Consistent, Measurable Outcomes — Across Every Industry

Up
to
95%

Accident & Security Breach Reduction

Up
to
99%

Operational Accuracy

Up
to
80%

Faster Incident Response

Up
to
92%

Unauthorized Access Prevention

Up
to
40%

Hardware Cost Savings

Up
to
78%

Operational Efficiency Improvement

Proven across: Manufacturing · Pharma · Chemical · Logistics · FMCG · Construction · Enterprise

From Passive Recording to Active Intelligence



Traditional CCTV

- ❌ Passive recording — footage sits unwatched
- ❌ Issues discovered after batch loss
- ❌ Human oversight — prone to fatigue
- ❌ Editable manual audit logs
- ❌ Inconsistent compliance monitoring
- ❌ Reactive investigation after incidents
- ❌ Siloed camera systems
- ❌ No real-time detection



CamSense Active AI

- ✅ Real-time AI scanning 24/7
- ✅ Proactive alerting before damage occurs
- ✅ Automated, tireless monitoring
- ✅ ALCOA+ immutable digital records
- ✅ Continuous unbiased SOP verification
- ✅ Instant violation detection + response
- ✅ Unified multi-site platform
- ✅ 30+ AI-powered detection modules

Enterprise-Ready. Security-Verified. Compliance-Focused.

In regulated industries, security and data integrity are non-negotiable. CamSense AI is built with enterprise-grade compliance at its foundation.



ISO 27001:2022 INFO SECURITY

Globally recognized standards for secure surveillance data management.

WHAT THIS MEANS:

- Secure data handling
- Enterprise-grade framework
- Protected access controls
- Risk-managed infrastructure



ISO 9001:2015 QUALITY MGMT

Structured quality processes across development and delivery.

WHAT THIS MEANS:

- Consistent deployment
- Standardized processes
- Reliable enterprise delivery
- Continuous improvement



VAPT Certified SECURITY TESTED

Rigorous penetration testing against cyber threats.

WHAT THIS MEANS:

- Cybersecurity tested
- Regulated environments
- Reduced attack surface
- Enterprise-safe deployment

COMPLIANCE-READY INFRASTRUCTURE



BUILT FOR

- GMP Environments
- Schedule M Compliance
- FDA-Oriented Operations
- Cleanroom Monitoring
- Industrial Audit Readiness



AUDIT FEATURES

- Immutable ALCOA+ audit trails
- Timestamped digital evidence
- Secure non-editable event logs
- Centralized compliance reporting
- End-to-end data encryption

100%

AUDIT READY

256-bit

ENCRYPTION

24/7

MONITORING

ALCOA+

COMPLIANT

ENTERPRISE TRU

Why CamSense

1

No New Hardware

Works on existing CCTV

2

Rapid Deployment

Live in days, not months

3

Real-Time Intelligence

24/7 AI-powered monitoring

4

30+ AI Capabilities

One unified platform

5

ALCOA+ Compliance

Immutable audit records

6

Multi-Industry Proven

Pharma, FMCG, Enterprise

7

Enterprise-Ready

Scalable, secure, supported



Ready to Transform?

BEYOND SURVEILLANCE. INTO INTELLIGENCE.

Bde@apexa.in