CAMSENSE

Active Intelligence for 24/7 Hospital Operations

Transforming existing CCTV infrastructure into real-time patient safety, security, and compliance intelligence.

The Limits of Human Monitoring in 24/7 Clinical Environments

Operational Risk

Critical events are frequently missed in crowded reception, ER, and corridor areas due to sheer volume.

Security Workload

Security teams are physically incapable of monitoring every screen continuously across long shifts.

Patient Safety

Patient safety incidents suffer from delayed detection and lack evidence-backed review mechanisms.

Management Visibility

Hospital management requires audit-ready visibility, but traditional reporting adds unsustainable manual workload.

From Post-Event Review to Real-Time Intelligence

	Traditional CCTV	Camsense AI
Incident Detection	Manual, reliant on human attention	Automated, real-time exception alerts
Evidence Gathering	Hours of manual searching	Searchable event history & instant evidence clips
Privacy & Access	Unrestricted monitor viewing	Role-based access, audit controls, no-view private zones
System Health	Silent failures, unknown downtime	Automated camera health and feed-down alerts

The Camsense Intelligence Pipeline

Compatible camera feeds become no-code AI rules, alerts, and management reports.

Infrastructure (Input)

Connect compatible CCTV / IP / NVR / RTSP feeds. Reuse existing camera investments.

Camsense Edge AI

On-premise processing for privacy-sensitive sites.

No-code Rules (Logic)

Easy configuration of zones, schedules, and alert thresholds for safety, security, and operations.

Alerts + Reports (Output)

Dashboard alerts, evidence clips, daily/weekly reports, and escalation workflows.

Strategic Pillar 1: **Patient Safety & Clinical Care**

Fall Detection

Instant person-down detection in corridors and public zones.

Movement Visibility

Tracking stretcher and wheelchair movement along key emergency routes.

Hazard Prevention

Immediate alerts for blocked emergency exits, fire routes, and corridors.

Complementary Layer

Visual fire/smoke detection serving as a supplementary safety alert layer.

Strategic Pillar 2: **Security & Access Governance**

Perimeter & Gates: ANPR for vehicle entry/exit, parking zone monitoring, and ambulance/VIP movement logs.

Threat Detection: Loitering and suspicious dwell-time detection in highly sensitive zones.

Restricted Intrusion: Authorized-personnel-only monitoring for pharmacies, stores, server rooms, and billing cash areas.

Asset Protection: Unattended object or object removal alerts in defined high-value areas.

Strategic Pillar 3: Operational Efficiency & Patient Experience

Crowd Management

Queue alerts and crowding detection at reception, OPD, billing, and diagnostic counters.

Flow Analytics

People counting and occupancy trends to optimize staffing and patient routing.

Staff Visibility

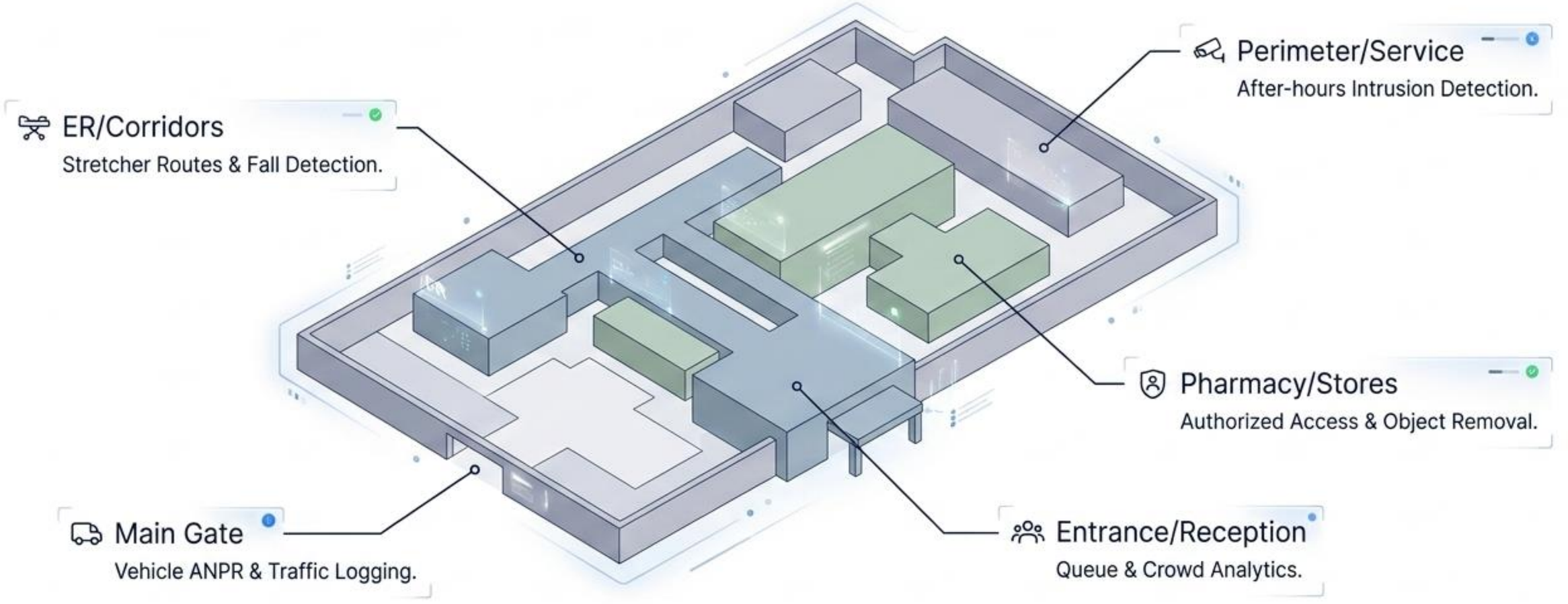
Policy-backed staff attendance, shift discipline, and workstation presence monitoring in approved zones.

Facial Recognition (Optional)

Senior consultant entry/exit logs and restricted-area access (subject to legal review and consent governance).

Synthesis: The Intelligent Hospital Ecosystem

A unified layer of intelligence running concurrently across all facility zones.



Key Takeaway: One system resolving competing priorities—safety, security, and flow—from the perimeter to the core.

Architecture of a Standard 30-Camera Deployment

Indicative mapping to maximize risk mitigation across critical facility zones.

4 Cameras

Zone: **Main Gate / Parking**
Use Cases: ANPR, vehicle entry/exit, ambulance/VIP logs.

4 Cameras

Zone: **Entrance / Reception**
Use Cases: Footfall, crowding, queue alerts, incident review.

4 Cameras

Zone: **Emergency / Ambulance Bay**
Use Cases: Crowding, stretcher visibility, incident detection.

4 Cameras

Zone: **OPD Waiting / Billing**
Use Cases: Queue management, service visibility.

4 Cameras

Zone: **ICU / Ward Corridors**
Use Cases: Authorized movement, fall detection, loitering.

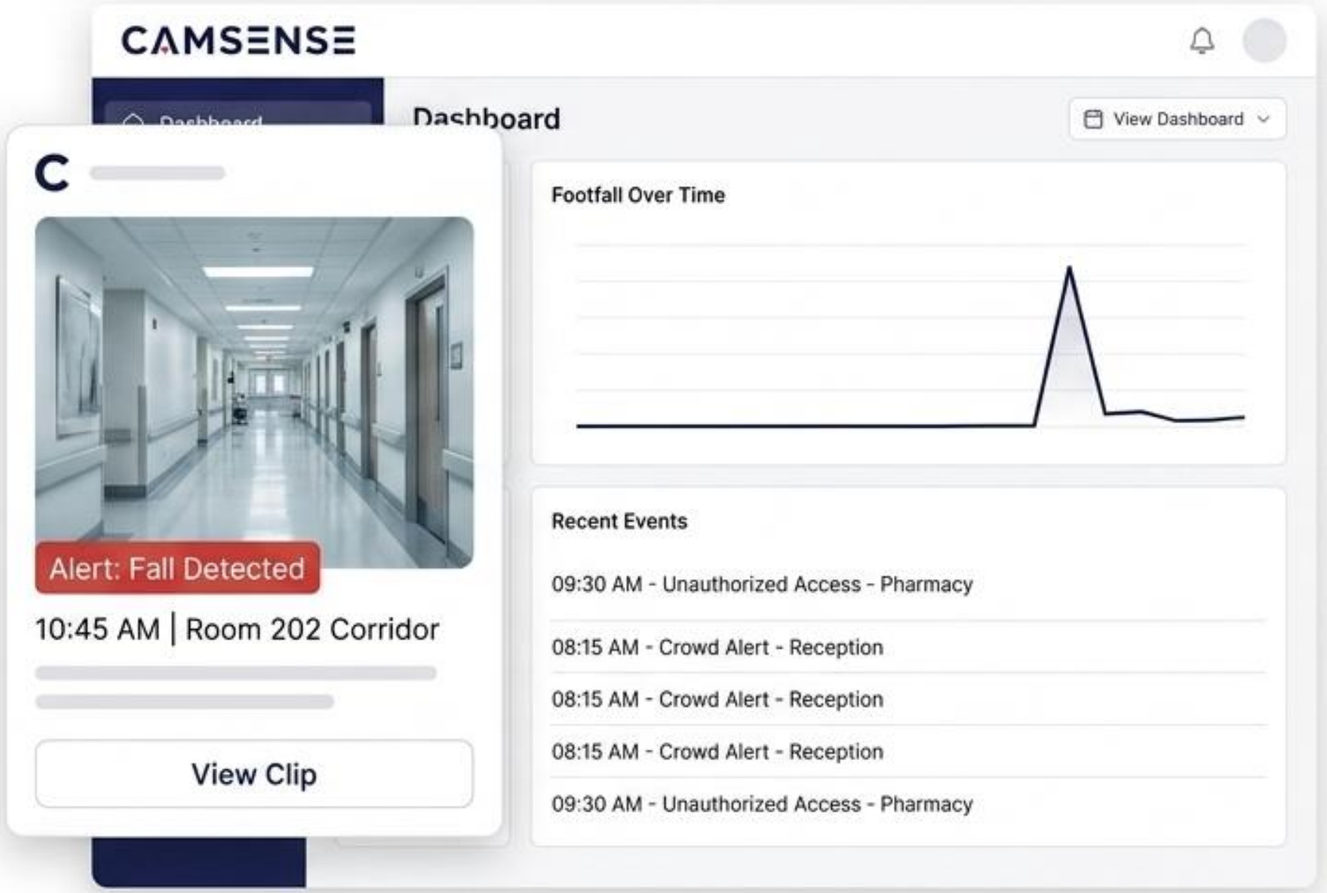
4 Cameras

Zone: **Pharmacy / Stores / Cash**
Use Cases: Restricted access, authorized-personnel-only.

6 Cameras

Zone: **Staff Entry / Perimeter**
Use Cases: Attendance, intrusion, after-hours movement.

Actionable Intelligence and Audit-Ready Governance



Real-time Event Alerts

Delivered with specific camera, zone, and timestamp data.

Instant Evidence Clips

Snapshots and video clips for rapid review by authorized staff, critical for complaints or insurance.

Searchable History

Easily query past events by date, camera, zone, and event type.

Automated Reporting

Shift-wise, daily, and weekly reports for administration, security, facility, and EHS teams.

Responsible AI: Uncompromising Privacy & Compliance

Designed specifically for the data governance requirements of healthcare.

On-Premise Processing

Edge AI processes video streams locally. Internet is only required for sync and text notifications.

Strict Zone Governance

AI avoids private spaces entirely (washrooms, changing rooms, examination rooms).

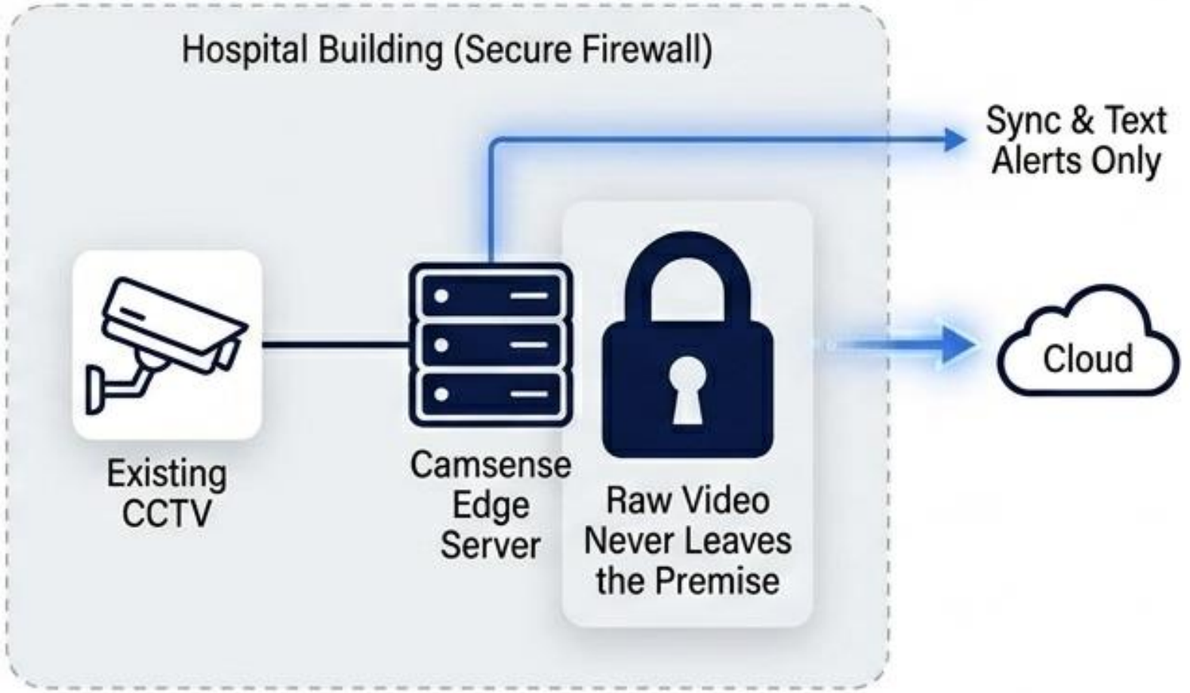
Role-Based Access Control (RBAC)

Granular audit logs and secure retention policies limit visibility to authorized users only.

Purpose-Bound AI

Facial recognition and biometric matching are treated as strictly isolated modules requiring separate legal review and consent.

Edge AI Architecture Model



Measurable Impact Across Hospital Operations

A Frictionless, Ownership-Friendly Commercial Model

Software Licensing

One-time, camera-based license tied strictly to scoped hospital use cases.

No hidden software subscriptions in year one.

Ongoing Support

Annual Maintenance Contract (AMC) and support structure beginning from Year 2.

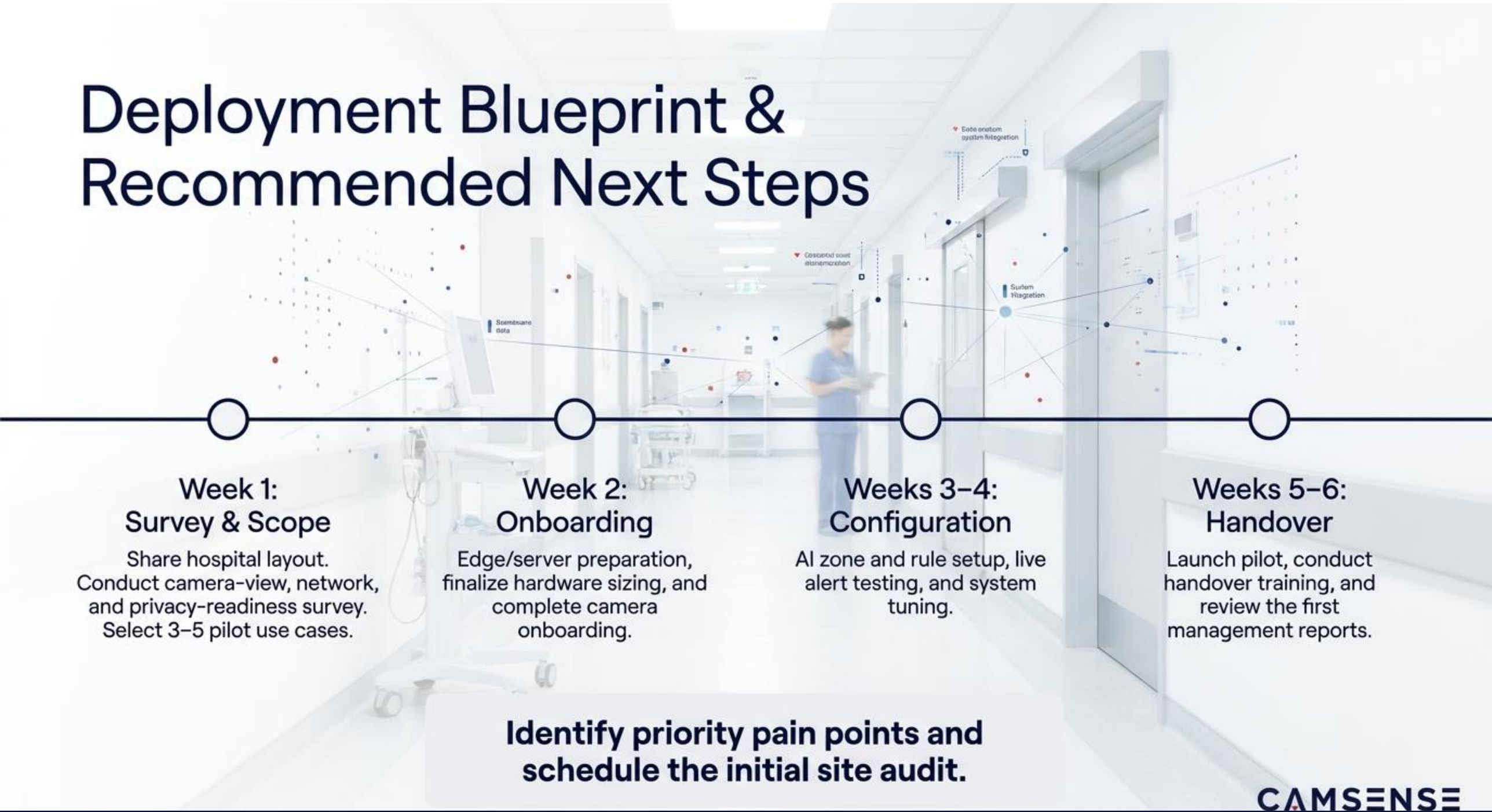
Hardware (Optional)

Edge AI hardware, servers, and GPU at actuals.

Existing compatible cameras are reused to protect prior investments.

Validation Note: Final commercial BOQ is provided post-site survey to validate camera views, network readiness, and privacy zones.

Deployment Blueprint & Recommended Next Steps



Week 1: Survey & Scope

Share hospital layout. Conduct camera-view, network, and privacy-readiness survey. Select 3–5 pilot use cases.

Week 2: Onboarding

Edge/server preparation, finalize hardware sizing, and complete camera onboarding.

Weeks 3–4: Configuration

AI zone and rule setup, live alert testing, and system tuning.

Weeks 5–6: Handover

Launch pilot, conduct handover training, and review the first management reports.

Identify priority pain points and schedule the initial site audit.

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