

# KenVision for Hospital Management

## AI Video Analytics Use Cases

Smarter Hospitals. Safer Patients. Real-Time Operational Intelligence.

KenVision is an AI-powered video analytics platform designed for hospitals and healthcare institutions. It transforms existing CCTV infrastructure into a real-time operational intelligence system that improves patient safety, staff accountability, compliance monitoring, and hospital efficiency.

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KenVision enables hospitals to monitor patient flow, track staff deployment, strengthen security, and automate compliance visibility — all through intelligent video analytics using existing infrastructure without requiring additional hardware investments.

### 1. Dress Code Intelligence & Person Tracking

KenVision detects every person entering the hospital based on clothing color and type, tracking their complete journey throughout the facility in real time.

- Logs exact entry and exit times
- Tracks movement across wards, corridors, rooms, and departments
- Records time spent in every zone
- Monitors access to restricted areas such as ICUs, operating theatres, and pharmacies
- Generates a complete movement timeline for investigations and accountability

### 2. Nursing Staff Monitoring

Tracks the movement, activity patterns, and patient interaction coverage of nursing staff across every shift.

- Time spent by nurses in each patient room
- Frequency of patient visits and ward rounds
- Response time from nursing station to patient calls
- Idle time vs active duty time
- Presence within assigned care zones

### 3. Nursing Station Monitoring

Monitors nursing stations in real time and alerts supervisors when stations remain unattended beyond defined thresholds.

- Tracks occupancy status at every station
- Sends alerts to supervisors for unattended stations
- Maintains timestamped logs for audits and reviews

## **4. Patient Basic Checkup Monitoring**

Tracks and documents nursing visits for vitals checks, medication rounds, comfort checks, and patient welfare monitoring.

- Number of nursing visits per patient
- Duration and timing of every visit
- Compliance with minimum patient visit requirements
- Alerts for missed or delayed patient checks

## **5. Patient Waiting Time Capture**

Monitors patient waiting times across registration, consultation, treatment, pharmacy, and discharge workflows.

- Tracks arrival time at every department
- Measures waiting times before clinical contact
- Captures total patient journey time
- Generates alerts for excessive wait times and queue buildup

## **6. Restricted Zone & Access Monitoring**

Detects and alerts on unauthorized access attempts to sensitive hospital zones.

- ICU access monitoring
- Operating room access control
- Pharmacy and medicine storage protection
- Neonatal and high-security unit monitoring

## **7. NHMC Compliance Monitoring**

Automates monitoring and documentation of hospital operational standards to support NHMC compliance and accreditation.

- Nursing station coverage compliance
- Patient visit frequency compliance
- Waiting time compliance monitoring
- Visitor and restricted zone logging

- Incident and near-miss reporting

## 8. Security & Incident Monitoring

Monitors hospital premises for unusual behavior, altercations, loitering, theft, and security incidents in real time.

- Real-time security alerts
- Public area monitoring
- Incident logging and investigation support
- 24/7 surveillance intelligence

## 9. Staff Deployment & Shift Monitoring

Tracks workforce deployment across wards, departments, and floors throughout every shift.

- Detects understaffed zones
- Identifies unattended areas
- Monitors staff movement and deployment gaps
- Supports shift planning and operational coverage

## 10. Hospital Operations Dashboard

Provides hospital administrators with a centralized command dashboard combining all KenVision analytics modules.

- Live patient waiting times
- Nursing station occupancy status
- Staff deployment maps
- Compliance indicators
- Active security alerts
- Visitor tracking logs and shift summaries

## Key Benefits for Hospitals

Operational Area	Business Impact
Patient Safety	Improved monitoring and faster response times
Nursing Efficiency	Better accountability and patient coverage
Compliance Management	Automated NHMC monitoring and reporting
Hospital Security	Proactive monitoring of restricted zones
Patient Experience	Reduced waiting times and smoother workflows

Operational Visibility	Centralized real-time dashboards and analytics
Incident Management	Faster investigations and audit readiness

KenVision enables hospitals to transform existing CCTV infrastructure into an intelligent healthcare operations platform. By combining AI-powered analytics with real-time monitoring, hospitals can improve patient safety, strengthen compliance, enhance staff accountability, and deliver better healthcare experiences.