

Physical Access Control Solution

with Face Recognition, Wi-Fi Access and Smart
Security Monitoring for Employees and Visitors



Kloudspot's Physical Access Control Solution revolutionizes the way organizations manage access to their premises.

Utilizing computer vision technology, Kloudspot enables organizations to accurately identify and authenticate individuals entering their premises. This technology leverages cameras and intelligent algorithms to capture and analyze facial features, allowing for seamless and contactless access control.



Deploy for any Commercial Real Estate
including offices, warehouses, factories,
schools, hospitals, theme parks

Features of Face Recognition Solution for access management

- Face Detection:**
- Automatically detect faces from real-time camera feeds or user submitted videos / images
 - Supports age, gender, PPE, attire detection.
 - Simultaneous detection of multiple faces in one video / photo.
 - Decode live streams into video frames and store the frames with faces as images
- Face Recognition:**
- Automatically detect faces from real-time camera feeds or user submitted videos / image
 - Simultaneous detection of multiple faces in one video / photo.
 - Compare faces with pre-defined watchlists.
 - Supports multiple black lists / white lists.
 - Compare and display face similarities.
 - Enable 1:1 and 1: N face matching.
 - Provide full image and playback clip of the event when a face appears
- Alerts:**
- Alert and log when a pre-defined face is recognized.
 - Alert when a face is detected that is on keep-out list.
 - Show detected face on floormap with camera location.
 - Create historical movement report of target face with camera location

Access Control using Face Recognition System (FRS) for Employees and Visitors

With a comprehensive visitor and attendance tracking, Kloudspot covers all phases of the premises access solution. The figure below provides a summary of the employee as well as visitor engagement via FRS based entry and tracking.



Features overview

Employee Registration

- Bulk register biometrics for employees
- Weblink and Koisk module to accept individual registrations

Visitor registration - Individual and group

- Register biometrics before arrival via weblink
- Koisk module to accept registrations at front-desk
- Visitor groups can be managed in a single invite
- Host is notified by SMS/Email on visitor arrival
- Pre-registered visitors can enter using QRcode scanning

On-premise features

- Track individuals location within the premise
- Automatic provisioning of Wi-Fi for visit duration
- Utilities access via API integrations
- Wayfinding to meeting rooms and utilities
- During emergencies, alert via SMS, email, call

Security and surveillance

- Monitor on-premise movement of employees and visitors
- Prevent appointments for blacklisted people and alert admin if blacklisted face detected
- Define No-Go zones for restricted access. Get alerts if person is seen in restricted areas

Reports and dashboards

- Real-time visitor presence & count
- Employee attendance, movement, dwell trends
- Historical data, repeat visitors, timelines
- Security breach incidents
- Export data to CSV, Excel, PDF formats
- Integrate and display data on digital twins

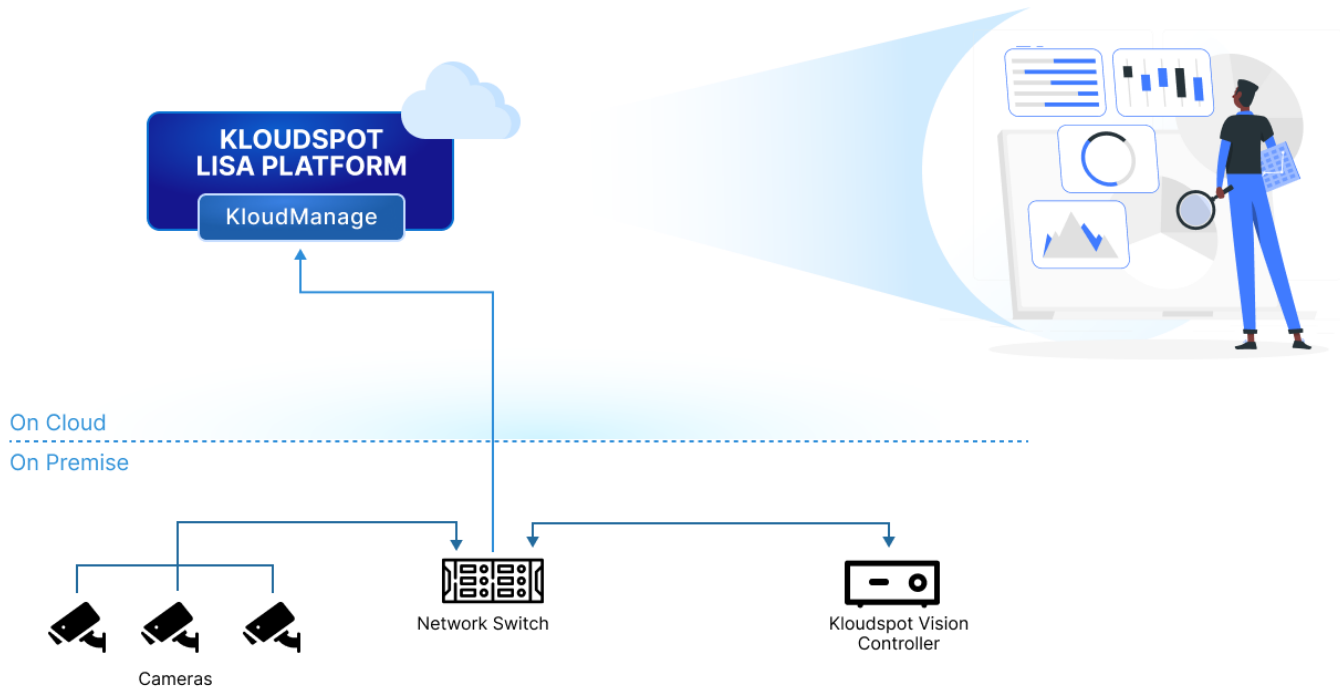
Technical Highlights

- On-premise and cloud based system
- Integrations with third-party systems to automate access control workflows
- Multi-language support can be enabled as required



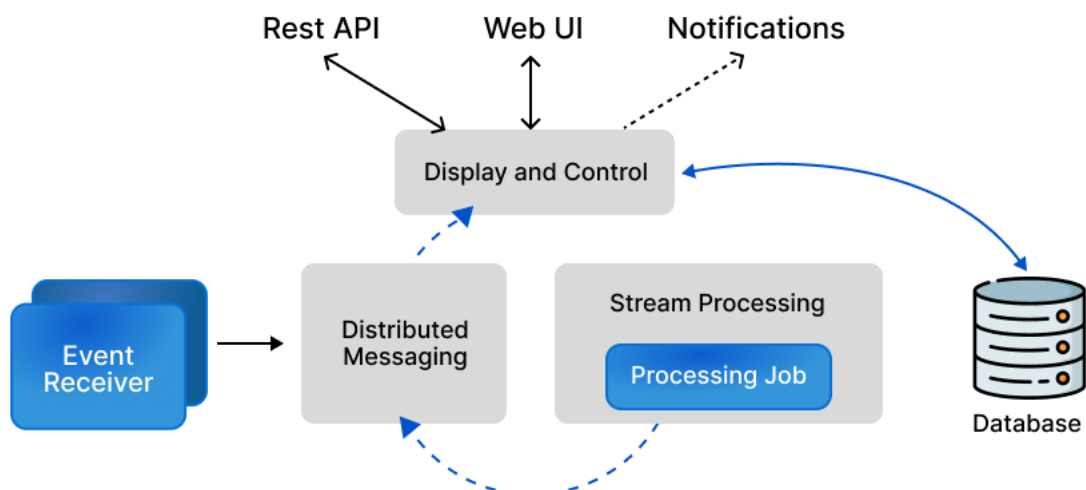
Technical Architecture and Highlights

The FRS based visitor management solution by Kloudspot relies on the KloudVision, KloudManage and KloudInsights modules of the Kloudspot LISA platform. Below is the network architecture for the vision controller (KloudVision) and the cameras



The KloudManage is the central intelligence layer that keeps track of all the meta data and actionable components. This is where the entire integration with the door access/badging system occurs, along with the central database of visitor and employee verification. The core architecture of Kloudmanage is a high scalable approach allowing it to run on premise at enterprise site or in a cloud environment.

Figure below provides a high level view of the structure showcases the ease of integration both from a camera ingest point to the ability to ‘push’ actions to a variety of different systems



Integrations

Several custom integrations can be implemented to enhance the benefits of FRS. These could be Employee HR systems for bulk face registration and Time and Attendance updates. Physical Access control hardware integrations such as automatic sliding doors and turnstiles, Digital Signage based Alert system, Visitor kiosks, integration with company apps and more.

Data privacy , data storage and governance

At Kloudspot, data privacy is at the forefront of our operations, and we take the protection of our customers' and stakeholders' information extremely seriously. Our robust data privacy compliance and policies are designed to ensure the highest level of confidentiality, integrity, and security for all data we handle. We adhere to relevant data protection regulations, such as GDPR and CCPA, and consistently go above and beyond to safeguard sensitive information. Our state-of-the-art encryption protocols and secure data storage measures guarantee that information is shielded from unauthorized access. By putting data privacy at the core of our operations, we build unwavering trust with our clients, fostering a lasting relationship built on the principles of respect, security, and ethical data management.

About Kloudspot

Kloudspot is a cutting-edge Intelligent Interactive Spaces software solutions provider. Kloudspot brings full Location Intelligence and Situational Awareness through its LISA platform. LISA is built on advanced AI and Machine Learning models to deliver deep Intelligence and immersive Interactions through its Digital Twin offering. LISA leverages existing edge sensors, and is fully vendor and hardware agnostic, to gather data from Bluetooth devices, Wifi Access Points, IP Cameras, Biometric Sensors as well as complex systems through API integration. As a brainchild of some of the leading minds in networking, AI and IoT technologies, Kloudspot is driving true business digital transformation. Kloudspot's mission is to enable enterprises to maximize value from their investment in people and physical assets to provide exceptional experiences and deliver significant ROI.

Visit us at [Kloudspot.com](https://kloudspot.com)

Kloudspot Inc.
1285 Oakmead Parkway Sunnyvale, CA 94085 USA
E: contact@kloudspot.com

