tyco | Illustra

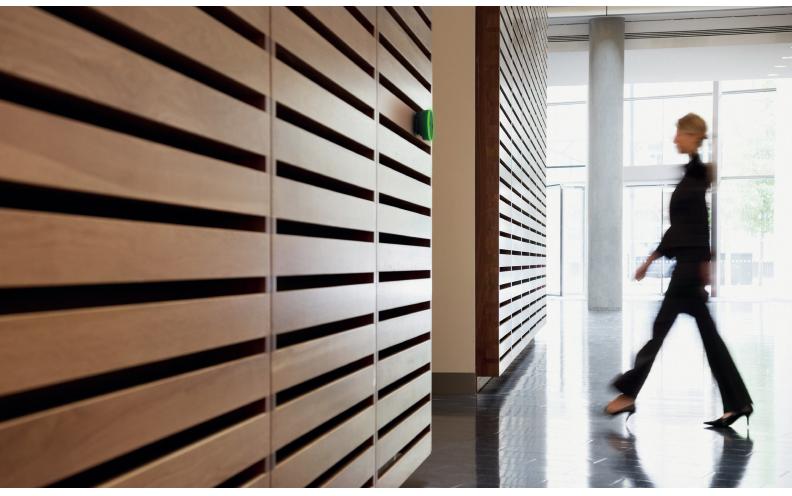# Intelligent frictionless access

Illustra insight – Insightful movement of people in buildings, places and spaces

The power behind **your mission**

Johnson Controls

Insightful movement of people in buildings, places and spaces

The Illustra Insight combines the quality surveillance of a leading-edge facial recognition camera integrated with a comprehensive access control device. Engineered with deep learning algorithms and cyber security protocols the device is designed to create a frictionless, unobtrusive experience for all.

- Enhanced Facial Detection
- Alerts for Persons of Interest
- Improved flow of users with unobtrusive, frictionless and secure access control
- Anti-spoofing liveliness detection solution that eliminates the risk of spoofing via a photographic image
- Identify tailgating in high security areas
- Authentication via QR codes for pre-registration user access
- Personalised language greeting for unique user experience
- Two-way communication via built-in intercom for additional verification
- Integrated with leading access control solutions
- Cyber security protection with no Ethernet at the door

Industry leading facial recognition

Illustra Insight utilises two imagers to create a 3D facial topology that can quickly distinguish between an actual human and a picture of a human, greatly increasing accuracy while reducing false positives.

The wider field of view achieved by building the sensor into a camera allows faces to be detected at varying heights and locations within the field of view.

The dual-lens increases the accuracy of authentication and helps reduce unwanted personnel accessing restricted areas.

Comprehensive access control integration

Designed for seamless integration with JCI access brands, CEM Systems, Software House and Kantech.

Access control agnostic. Illustra insight can be interconnected via traditional and modern wiring protocols into any access system that has on-board Wiegand and OSDP.

World class design and innovation

1. Access Control Integration

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2. Tyco AI

Tyco AI, an ever-evolving, deep learning solution that is infusing Artificial Intelligence into the Tyco security technology portfolio.

3. Secure communications

Propriety protocols are used to ensure secure communications between the Insight camera and control panel.

4. Twin cameras

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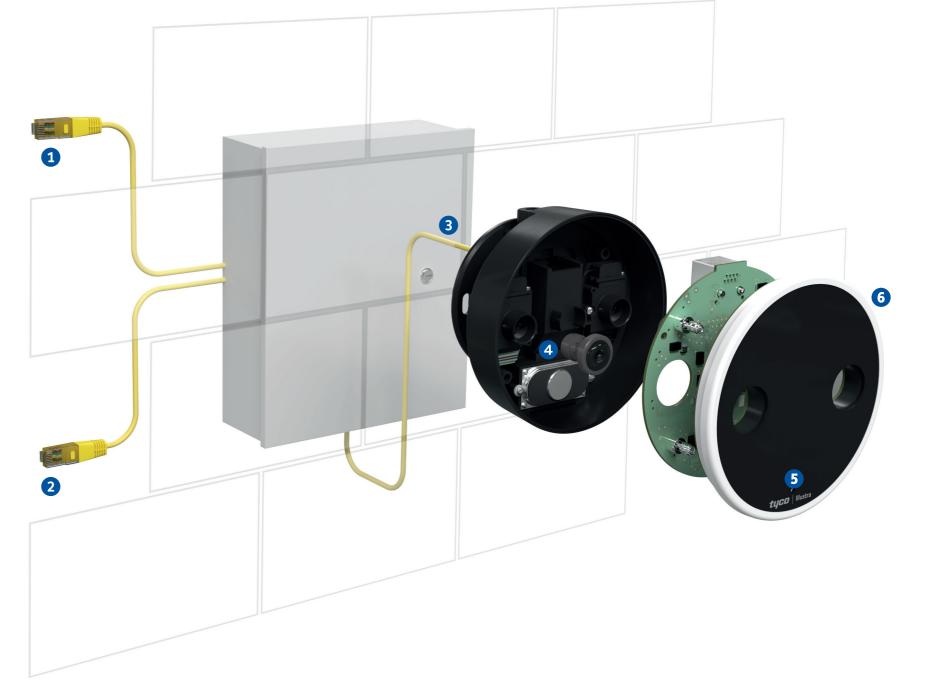
Illustra Insight can be configured to enable access via a QR code credential that can be presented to the Insight camera in place of a facial biometric. This ensures access can be provided to visitors and users that have not yet had their facial biometric registered on the system.

5. Designed for SIP integration

Designed for SIP Integration which enables a SIP call to be initiated with the security personnel in the event of a unrecognised user or loitering person so that additional verification can be sought before access is granted.

6. Intuitive visual and multi-language audio feedback

Integrated LEDs combined with "Welcome/Deny" audio and SIP intercom functionality ensure visitors and employees instantly know if they can enter an area while operators are able to provide instructions remotely. Audio messages can be configured in a number of languages for a personalised and improved user experience.

Enabled by Tyco AI

Illustra Insight utilises Tyco AI artificial intelligence to enhance the best in class video surveillance and access control solutions from Tyco. Tyco AI is a cerebral engine the goes beyond surveillance and access to enhance a security ecosystem. AI technologies utilised within insight include:

- Enhanced facial detection including an anti-spoofing liveliness solution that eliminates the risk of card pass back or spoofing via a photographic image

- The system can also be configured to identify and alert security to tail gating, restrict access to a group if a user does not posses the correct credentials, or deny access altogether.

Flexibility of Deployment

Whilst Tyco/JCI offers a complete frictionless access solution, enabled by Tyco AI, we designed our solution with flexibility in mind. Our first release leverages facial recognition but we are exploring other biometric options for future release.

We also welcome co-development efforts with partners who have custom AI needs. For example we are collaborating with Microsoft to deliver Illustra Insight with Mircosoft Azure AI.

Cyber Secure

Our Product Security Program: Firmly Established. Always Evolving.

Johnson Controls products and solutions are created in a culture focused on cyber resilience and are deployed with dedicated support. Our customers benefit from our proven approach:

- Consistent, organization-wide focus
- Time-tested policies and practices
- Global knowledge base
- Support from design through deployment and beyond
- Continuing investment to meet ever-evolving challenges and needs

Illustra insight example use cases

Aviation

Areas where card sharing and tail gating present risks

Corporate environments

Where an unobtrusive stress free frictionless solution can enhance your working environment

Healthcare facilities

Where cards and push buttons can present a hygiene risk

About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimising building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers and manufacturing. With a global team of 105,000 experts in more than 150 countries and over 130 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, York®, Metasys®, Ruskin®, Titus®, Frick®, Penn®, Sabroe®, Simplex®, Ansul® and Grinnell®.

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