tyco | CEM Systems

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
- 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
- Cyber security protection with no data held in the camera
- Purpose built camera for access control with wider field of view integrated colour LEDs for intuitive feedback and wider field of view to detect faces at varying heights
- Seamless integration with CEM Systems AC2000 (v10.3 and higher)
- Multi-factor or facial biometric only authentication

Industry leading facial recognition

Illustra Insight utilises two imagers (a combination of IR and RGB video) 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 CEM Systems AC2000 software.

Facial biometric enrollment is possible via an embedded integration with AC2000 Personnel (v10.3 and higher). Up to five cardholder images (minimum of one required) are enrolled in AC2000 Personnel and the biometric template is generated and stored on the Tyco AI server.

World class design and innovation

1. CEM Systems AC2000 Integration

Seamless integration with enrollment via AC2000 Personnel (v10.3 and higher).

Supports facial biometric only frictionless access or multi-factor card and facial authentication with CEM Systems emerald terminal and AC2000 (v10.3 and higher).

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. No data is held in the camera.
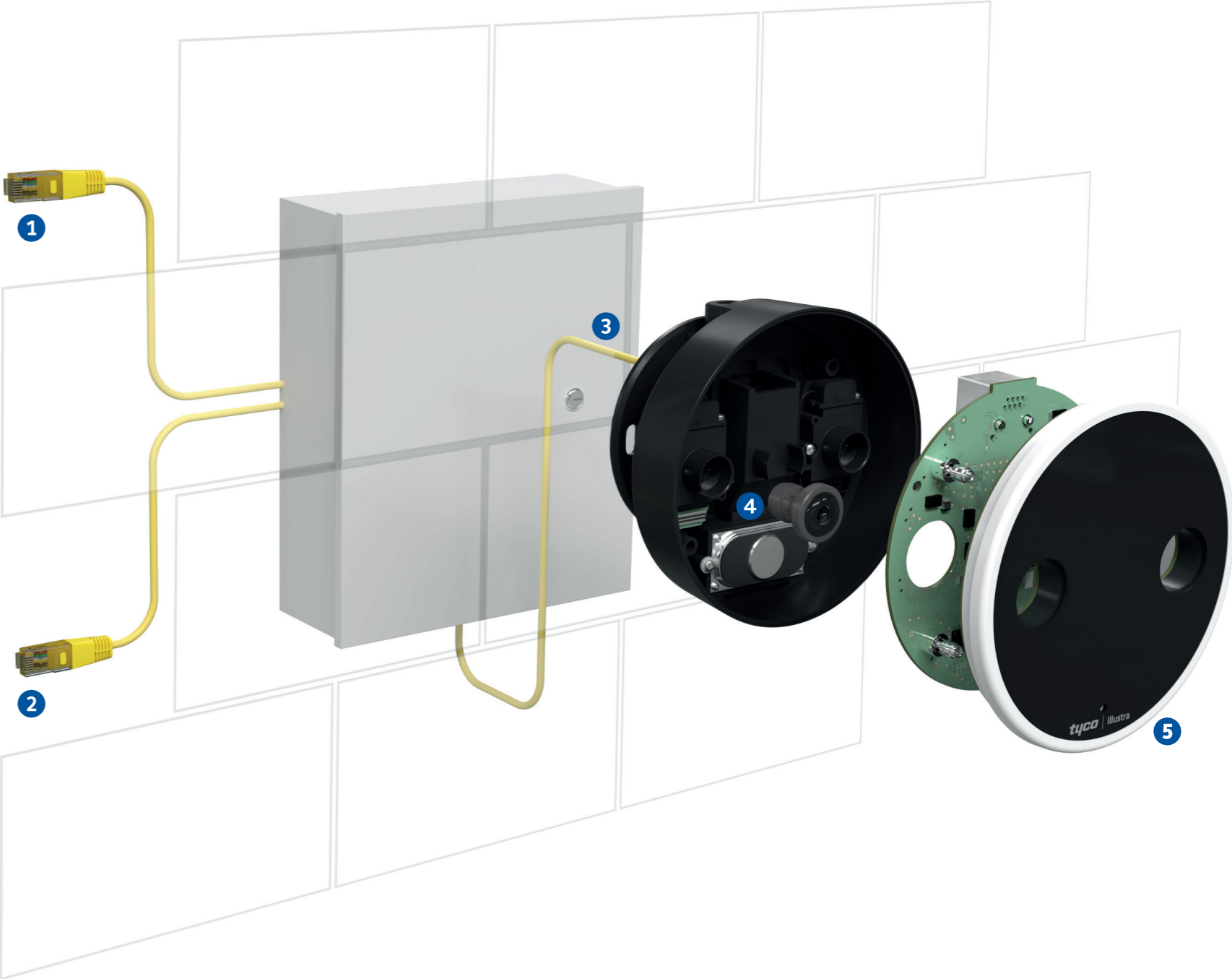
4. Twin cameras

Illustra Insight utilises two imagers (a combination of IR and RGB video) 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 allows faces to be detected at varying heights and locations within the field of view to ensure an unobtrusive experience for valid users.

5. Intuitive visual feedback

Integrated LEDs on the Insight camera ensure visitors and employees instantly know if they can enter an area.

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 includes enhanced facial detection, an anti-spoofing liveliness solution that eliminates the risk of card pass back or spoofing via a photographic image.

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

Certain functions of the software may require compliance by you (the customer) with local, national and international laws and regulations. You (the customer) are solely responsible for compliance with all applicable laws and regulations relating to your use of this Software and those functions, including but not limited to those laws and regulations pertaining to personal data protection, privacy and security, any laws relating to the collection and sharing of facial recognition with third parties, or any laws requiring notice or consent of persons with respect to Your use of facial recognition.

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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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