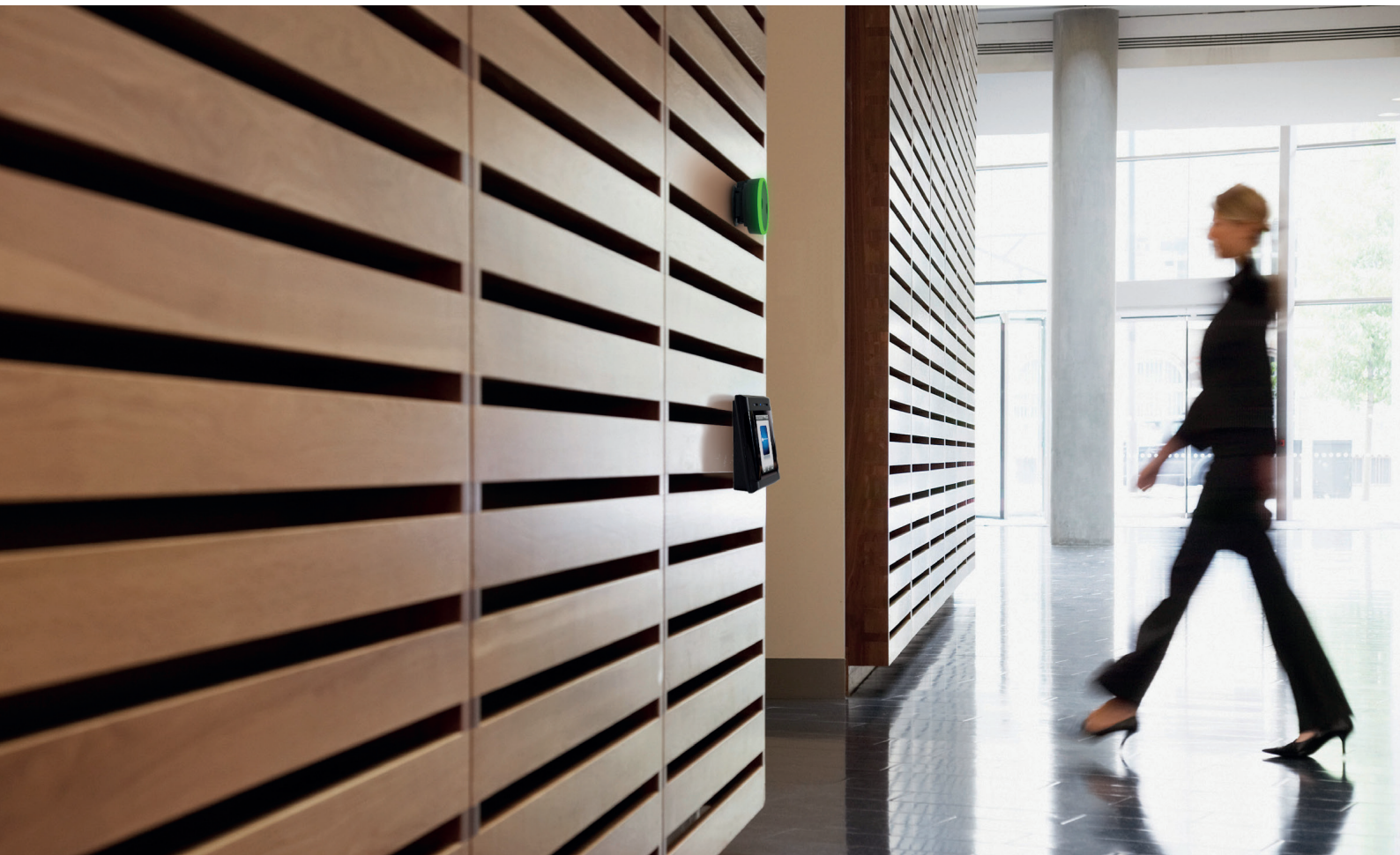**tyco** | CEM Systems

Intelligent frictionless access

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

The power behind **your mission**

Johnson Controls

Intelligent 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 Illustra 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 Illustra 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 for all

Aviation

Airports pose a particular challenge, in that they must provide the highest levels of security while ensuring smooth, comfortable transit for staff and passengers. This is made even more difficult by the sheer number of staff and subcontractors on-site at any one time.

Illustra Insight can enable frictionless access to restricted areas using dual authentication. This makes for easy movement for credentialed personnel with no drop in security. When you build in facial recognition, you are looking at an enhanced identity management and security setup.

It also pays to consider the customer experience benefits. For example, you could register your First Class guests so they get easy access to their VIP lounges without the need for cards or other physical tokens.

Corporate

Illustra Insight is also built to meet the challenges of human traffic through office buildings. You can throw an extra ring of security around sensitive areas – such as boardrooms or research labs – and add dual authentication to ensure bad actors are quickly stopped.

In terms of hygiene and sheer usability, contactless access control makes for a better experience for your people. They do not have to carry cards or take the time to go through card reading and/or fingerprinting – facial recognition does it in the blink of an eye.

It also allows you to tighten up on visitor management – there is no risk of temporary access cards being misused or stolen if you are not handing these out to visitors or contractors. This can cut your risk significantly.

Healthcare

Hygiene is important everywhere, but is perhaps most crucial in healthcare environments. Frictionless access maintains hygiene levels and creates a seamless, smooth experience for medical professionals who – of all people - do not have time to waste.

You can also use Ilustra Insight to protect highly sensitive areas, such as restricted drugs cabinets, operating theatres, and other private staff spaces. Operating rooms are particularly important to protect and this solution means all the essential people can get easy access while security is maintained.

For infection management, access control this adaptable means it is simple to lock off certain areas to prevent the risk of cross-contamination.

Gaming

With the amount of money that will be on the premises of gaming establishments, a simple single-authentication system could represent an intolerable risk.

The more layers of security you build, the more peace of mind you will enjoy. Add dual authentication with biometric or facial recognition for quick, secure access control with almost 100 percent accuracy.

The Illustra Insight solution can also be used to enable (or disable) access to special staff areas and/or VIP areas, such as private gaming rooms.

Let your guests do the gambling – do not take risks with your security.

tyco

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®.

For additional information, please visit **www.johnsoncontrols.com** or follow us **@johnsoncontrols** on Twitter.

195 Airport Road West, Belfast, BT3 9ED, Northern Ireland.
T: +44(0)2890 456767 E: **BTS-EMEA-TycoSales@jci.com**
www.illustracameras.com

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