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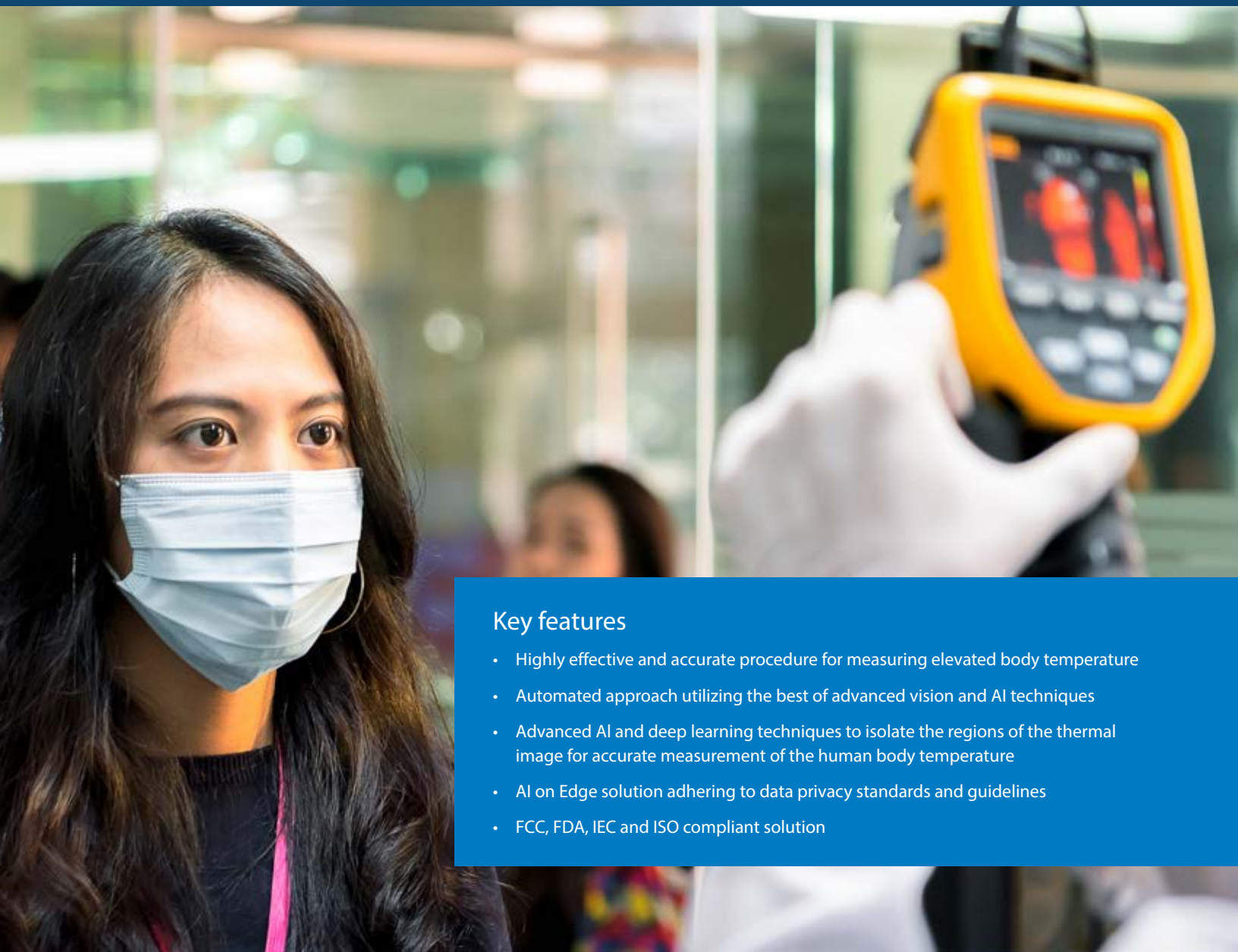
AI ON EDGE POWERED THERMAL SCREENING FOR ELEVATED BODY TEMPERATURE (EBT)

As the world is gearing up to prepare, prevent, protect and thrive in this pandemic era, organizations are leveraging advanced technologies to enable workplaces safe for employees to return. To ensure that regular precautionary and preventive measures are in place, one of the key aspects is to detect the most common symptom of Elevated Body Temperatures (EBT) of individuals, which is indicative of illness. While manual thermal screening processes have seen a rise in adoption, some of the key challenges are risk of operators getting infected, momentary attention lapses and queue buildups.

Solution Highlights

Infosys addresses these concerns through an AI-powered Thermal Scanning proprietary solution by utilizing the Infosys Visual intelligence platform, a spinoff of its Autonomous Systems initiative. This solution is a fully automated thermal screening process with zero human involvement. It takes the feed captured by the thermal camera, processes it using the Computer Vision (CV) and AI algorithms on EDGE device in real-time, and alerts the concerned team for further examination.



Key features

- Highly effective and accurate procedure for measuring elevated body temperature
- Automated approach utilizing the best of advanced vision and AI techniques
- Advanced AI and deep learning techniques to isolate the regions of the thermal image for accurate measurement of the human body temperature
- AI on Edge solution adhering to data privacy standards and guidelines
- FCC, FDA, IEC and ISO compliant solution

Key Benefits

- Relieving human operators from risky exposure
- Removes risks associated with human lapses that can have associated liabilities
- Accurate representation of body temperature interpretation
- Scalable for enterprise IT infrastructure integration
- Increases screening throughput & reduces queue buildup

Case studies*

Road feature recognition from aerial imagery for a global mining company

Infosys leveraged deep learning algorithms to automate the process of acquiring large data sets of active mining areas from aerial images, thereby reducing execution time by 75% for a typical 1000 Km radius area.

Deep learning based entity extraction for Swiss-Swedish heavy electrical equipment company

Infosys provided an automated AI driven process utilizing advanced deep learning techniques, to reduce the processing time of electrical installation planning projects from 2 weeks to 2 hours and improved productivity by 400%.

India's first autonomous buggy for one of the largest buggy manufacturers in India

Infosys helped an India based golf-cart manufacturer to create India's First commercial autonomous buggy leveraging Infosys Autonomous System Platform with advanced technologies such as obstacle detection and smart obstacle avoidance, while ensuring industry standard accuracy and performance, and providing a unique experience.

*These highly scalable AI/ML-powered advanced image analytics and deep learning technologies have been repurposed to develop and deploy the Thermal Screening Solution for detecting EBT. Infosys continues to be employee-first in its approach and provides efficient solutions to reduce human intervention and safety while adhering to regulatory compliances, thereby making workplaces safer for employees to return.

For more information, contact askus@infosys.com

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