

DHS EXTENSION MOVES CT BAGGAGE SCANNER TOWARDS COMMERCIALISATION

Adelaide, Australia, 28 September 2026: Australian hi-tech company Micro-X Ltd (ASX: MX1) (Micro-X or the Company), a leader in cold cathode X-ray technology for health and security markets globally, announces that its US subsidiary, Micro-X Inc., has signed a contract extension with the US Department of Homeland Security Science and Technology Directorate (DHS S&T) valued at US\$0.75 million (approximately A\$1.05 million) to mature the design of its Miniaturised CT Baggage Scanner for manufacturing at scale.

Key Takeaways

- US\$0.75 million (approximately A\$1.05 million) contract extension awarded by DHS S&T
- Extends Micro-X's current Self-Screening Checkpoint contract with DHS S&T by an additional eight months to deliver an upgraded Miniaturised CT Baggage Scanner
- Continued US Government backing for the Miniaturised CT Baggage Scanner, the core enabling technology of the Passenger Self-Screening Checkpoint
- Targets faster scanning, more efficient production at scale and simpler deployment, key steps towards a commercial product
- Positions the scanner as a potential standalone product for airports and other security environments

DHS FUNDS NEXT STAGE OF CT BAGGAGE SCANNER DEVELOPMENT

The new eight-month extension will fund Micro-X to design, build and deliver an upgraded version of its Miniaturised CT Baggage Scanner, incorporating improvements identified through the manufacture and testing of the existing prototypes and further maturing the design for manufacturing at scale. Micro-X will undertake the program through its US and Australian operations.

The extension builds on several years of DHS-funded development. Micro-X developed and delivered its first prototype Miniaturised CT Baggage Scanner to DHS in 2024 as part of a funded development program to demonstrate the technology required to enable a novel Passenger Self-Screening Checkpoint. Micro-X subsequently built three additional prototypes as part of three fully integrated Self-Screening Checkpoint booths.

These four prototype scanners were based on the same initial design. Subsequent DHS funding focused on the development and integration of the broader Self-Screening Checkpoint. The prototypes have since been successfully evaluated and used to collect images from thousands of test bags.

The new DHS award specifically funds Micro-X to implement and demonstrate the improvements identified through this testing.

A key development will be increasing imaging speed, improving the potential passenger throughput of the Self-Screening Checkpoint. The program will also incorporate design changes to simplify manufacture and enable more efficient production, as the early prototypes were not designed for volume manufacture. Further improvements will incorporate lessons learned through testing to simplify system deployment and operation.

Together, these developments are intended to move the CT Baggage Scanner closer to a commercial product configuration while continuing to support DHS S&T's development and evaluation of future airport security screening technologies.

CORE TECHNOLOGY WITH STANDALONE POTENTIAL

Built on Micro-X's proprietary NEX Technology, the Miniaturised CT Baggage Scanner is the core enabling technology within the Passenger Self-Screening Checkpoint. The CT Baggage Scanner also has potential as a standalone product, beyond the complete Passenger Self-Screening Checkpoint. Its compact and modular architecture creates opportunities for security screening in airports and other environments where the size, weight and infrastructure requirements of conventional CT baggage scanners can limit deployment.

Micro-X CEO Dr Brian Gonzales said:

"This extension lets us take what we have learned from several years of development and testing with DHS and apply it directly to maturing the Miniaturised CT Baggage Scanner towards a commercial product. The CT scanner is the core technology that makes our Self-Screening Checkpoint possible. Our NEX Technology allows us to make a CT scanner significantly smaller and simpler than conventional rotating CT systems, which in turn enables an entirely different approach to passenger screening.

"Critically, this next stage lets us improve the speed of the scanner while redesigning it to be easier and more cost-effective to manufacture at scale and deploy.

"DHS's continued investment means we can further develop this technology while retaining the opportunity to apply the scanner both within the Self-Screening Checkpoint and as a standalone security screening product. This is consistent with our strategy of leveraging development programs with the US Government to mature our core NEX Technology into products with broader commercial applications."

This ASX Announcement is authorised by the Board of Micro-X Ltd.

About Micro-X

Micro-X Limited is an ASX-listed hi-tech company developing and commercialising innovative medical imaging products for global healthcare markets, together with selected security applications, based on proprietary cold cathode, carbon nanotube (CNT) emitter technology. Electronic control of the emitters enables X-ray products with significant reductions in size, weight and power requirements, supporting greater mobility and ease of use in existing X-ray markets and enabling new security applications. Micro-X has a fully vertically integrated design and production facility in Adelaide, Australia, and a growing technical and commercial team based in Seattle supporting its US business.

Micro-X's strategic focus is the development and commercialisation of medical CT imaging, supported by its established mobile digital radiology business and selected security applications. Its mobile digital radiology products are sold for diagnostic imaging in global healthcare, military and veterinary applications. A miniature brain CT imager for pre-hospital stroke diagnosis in ambulances is being developed with funding from the Australian Government's Medical Research Future Fund and Industry Growth Program. In November 2024, US Government agency ARPA-H contracted Micro-X to develop a full-body CT. In security, Micro-X remains under contract with the US Department of Homeland Security to design a next-generation airport security checkpoint.

For more information visit: www.micro-x.com

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