

## MICRO-X CARBON NANOTUBE EMITTER PATENT PUBLISHED

*Micro-X's own x-ray emitter technology has been developed and manufactured in Adelaide*

**Adelaide, Australia, 21<sup>st</sup> October 2019:** 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, is pleased to announce that the Company has been advised that its Patent Application (No. PCT/AU2019/000042) for 'Large Scale Stable Field Emitter for High Current Applications' was published under International Publication No. WO 2019/191801 on 10 October 2019, with a priority date of 6 April 2018. This Patent is a key addition to the Company's intellectual property portfolio and covers the key elements of the carbon nanotube emitters which are a core component of the Company's next generation x-ray tube devices, the core technology behind all Micro-X products.

This Patent, filed under the International Patent Cooperation Treaty or PCT, details the invention of simple low current small area emitters. The Patent protects the manner in which these emitters can be scaled in a controlled way through their relationship with a current sharing matrix material to achieve a stable, high current large area field emitter, resulting in long stable operating life. This innovation is the fundamental principle for nano structure field emitters, thus providing Micro-X with a strong barrier to competing field emitters being commercialised.

This invention also results from research previously announced by Micro-X, following a two year R&D project designed to build an in-house proprietary capability for carbon nanotube emitters and x-ray tubes, where previously Micro-X depended on licensing the technology from a third party.

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### About Micro-X

Micro-X Limited (the **Company**) is an ASX listed hi-tech company developing and commercialising a range of innovative products for global health and security markets, based on proprietary cold cathode, carbon nanotube emitter technology. The electronic control of emitters with this technology enables X-ray products with significant reduction in size, weight and power requirements, enabling greater mobility and ease of use in existing x-ray markets and a range of new and unique security and defence applications. The Company has its core R&D, engineering and production capability at its facility in Adelaide, Australia.

The Company's first product, the *Carestream DRX Revolution Nano*, is an ultra-lightweight digital medical x-ray system for the rapidly expanding mobile x-ray market in hospitals and healthcare. The *Carestream DRX Revolution Nano* holds 510(k) and CE Mark certifications and is sold commercially in a number of global markets by the Company's exclusive distributor, Carestream Health, Inc.. The Company has a portfolio of innovative products in development, aimed at customer solutions where there is little or no competition. This includes the Mobile Backscatter Imager or MBI which will image Improvised Explosive Devices for security, defence and counter-terrorism applications. The MBI is being jointly developed in partnership with Thales, a global supplier of defence and security technology systems, who are providing technical support and \$10 million of funding.

### CONTACTS

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