

MICRO-X | ARGUS

THE POWER OF SEEING DIFFERENTLY

A person in tactical gear, including a helmet and vest, is kneeling on a sandy surface. They are interacting with a black rectangular device labeled "MICRO-X" which has two antennas. A white battery pack is connected to the device. The entire scene is overlaid with a teal color filter.

DUAL-MODE NEX TECHNOLOGY™ X-RAY CAMERA

NEX Technology™

Nano Electronic X-Ray

Established in 2011, Micro-X was the first company globally to commercialise a digital X-ray tube using Carbon Nano Tube (CNT) emitter technology. The technology breaks through the historical limitations of traditional X-ray and has enabled the development of smaller, lighter, faster and more precisely controlled X-ray imaging capabilities.

In 2016 Micro-X Ltd. was contracted by a Five Eyes' (FVEY) alliance country to develop a self-contained Stand-Off Backscatter Imaging Concept Demonstrator, based on our unique CNT technology. The Argus X-ray Camera is a direct result of this program.

NEX Technology™ Benefits

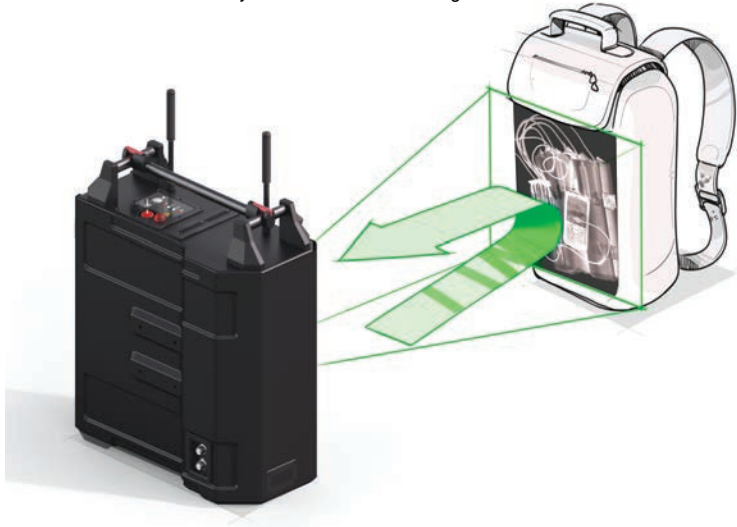
- ✦ Compact Design
- ✦ Digitally Controlled
- ✦ Fast & Efficient
- ✦ Reliable (10,000 life cycle)
- ✦ No requirement for internal cooling fluids
- ✦ Will not overheat under extended duty cycle



The Technology

Backscatter NEX Technology™

Collects the X-rays reflected from the target



Transmission X-Ray

Collects the X-rays that pass through the target



The Argus X-Ray Camera

The Argus X-ray Camera has been designed to enhance Threat Assessment and expedite the flow of critical information during High-Risk Search and CIED Operations, the leading-edge technology challenges conventional imaging modalities.

Designed as a Multi-Modal X-ray capability, providing the operator with the flexibility of High-Definition backscatter or conventional transmission X-ray, allowing the Operator to diagnose conventional and improvised threats. With the inherent benefit of organic discrimination enhancing the systems deployability during covert and contraband search.

The unique integrated design includes Micro-X proprietary NEX Technology™ X-ray generator and an internal 1615 CMOS detector which operates like a fixed focal length lens, providing an optimised image area of 210mm x 220mm at a 200mm stand-off. An optional ruggedised 4336 Lumen Wi-Fi enabled Imaging Panel, provides high resolution 135µm pixel pitch (5.0lp/mm) images.



The proprietary software functionality has been designed by operators to be intuitive and easy to navigate. The IR Range Finder provides a visual measuring capability, and user profiles allow images and task narrative to be saved for evidentiary purposes.



Increased Operator safety: reducing Operator Time Over Target (TOT) when deployed as a Carry Forward System, and eliminating TOT when deployed remotely by Unmanned Ground Vehicle (UGV)

Technical Specifications

Argus X-Ray Camera

- ✦ 1615 CMOS Detector
- ✦ Maximum kV: 160
- ✦ Dimensions (L x W x H): 425mm x 200mm x 495mm
- ✦ Total System Weight: 17kg
- ✦ Power: BB2590
- ✦ IP Rating: IP67
- ✦ Secure Key Lock
- ✦ Carbon Fibre Structure

Communications

- ✦ 1W, 900MHz COFDM/MIMO Radio with Mesh Networking Support
- ✦ 256-bit AES encryption
- ✦ 2x Rugged, Flexible Omnidirectional 900MHz antennas
- ✦ 1 x 50mtr. Cat 5 Hardwired Communication Cable fitted with Phoenix Contact Connectors

Transmission Panel

- ✦ Wi-Fi Enabled
- ✦ IP68 Rugged
- ✦ Rugged Polycarbonate Housing
- ✦ 135µm pixel pitch (5.0lp/mm) Resolution

DISCLAIMER Product design specification and data are subject to change without notice to improve, reliability, function, design or otherwise.

High-Definition Stand-Off Imaging

The fixed focal length lens, combined with an optimised 300mm stand-off provide a 210mm x 220mm detection area.

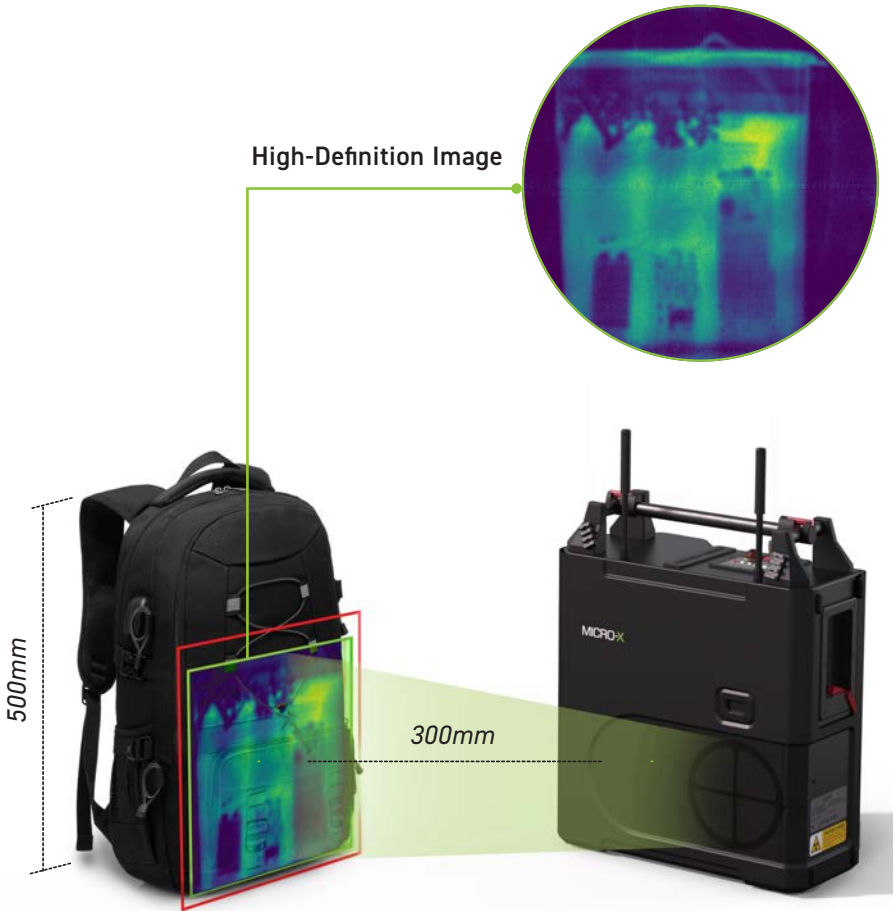


Diagram Key:

- ✘ Approximate size of suspect device
- ✘ Micro-X Camera field of view



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