



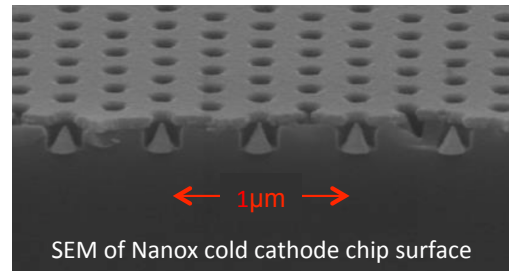
Our Vision

Nanox field effect cold cathodes will enable a new generation of vacuum electronics. Our efficient, fast, and robust electron sources will allow engineers to overcome decades-old impediments to innovation in industries ranging from medical imaging, to security, to telecommunications.

Our Technology

Using proprietary MEMS techniques, millions of nano-scale gates and tips are fabricated on each silicon chip. Nanox emitters are far more uniform than carbon nanotubes, and orders of magnitude smaller than conventional Spindt-type cathodes. The result is an emitter with game-changing performance:

- High current density ($>2.5\text{A}/\text{cm}^2$)
- No space-charge limit
- Ultrafast switching (limited by the capacitance of control electronics)
- kV - mA independence
- Long lifetime
- Highly uniform emission



Nanox Technology and the Future of Vacuum Electronics

Medical Imaging

At the heart of every contemporary X-ray imaging system, there is an analog tungsten filament that has gone essentially unchanged for the past 100 years. As a result, contemporary imaging systems are inefficient, slow, and bulky. Imaging systems designed around Nanox emitters will be efficient, fast, and flexible.

Security

Baggage screening applications demand imaging systems that are fast, compact, and reliable. Nanox field effect cathodes allow flexible system geometry design, and have the high electron flux necessary to image in the most critical situations.

Telecommunications

Replacing the thermionic cathodes found at the heart of virtually all RF devices will bring a performance revolution to communications and military systems.

Partnership

Nanox has developed unique intellectual property, patents, and capability to design and build reliable and high-powered field effect cathodes. They can be created in practically any shape and size, and require simple control circuitry. This allows them to be adapted to the entire range of vacuum electronics, from X-ray tubes, to TWTs, and beyond.

We are seeking serious co-development partners to bring this exciting technology to market. Please contact us for more information.

www.nanox-technology.com

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