## Micro Miniature X-ray Source





Application	Micro Miniature X-ray Source
Medical	■ Radiation Therapy ■ Tunica Vasculosa Irradiation ■ Diagnostic X-ray Source ■ Substitution of Isotope Source
Industrial	■ Nondestructive Inspection ■ Surface Treatment and Surface Analysis ■ Sterilization ■ Production Process for Semiconductor
Research	■ Medical Science ■ Biology ■ Physics ■ Chemistry ■ Engineering ■ Pharmacy

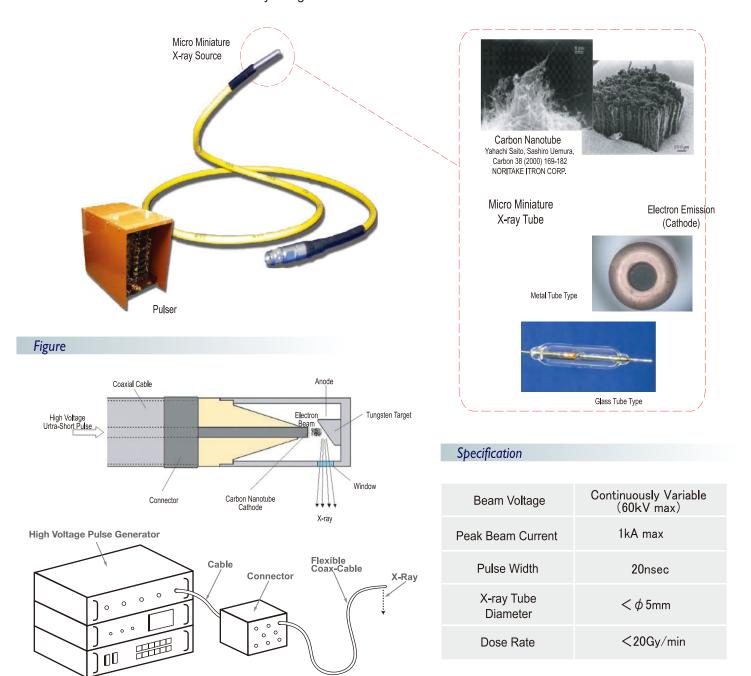


## Micro Miniature X-ray Source

The Micro miniature X-ray Source, an innovative technology developed by AET, Inc. can accelerate electron beams in a high-gradient electromagnetic field by a micro miniature X-ray tube, and extract X-rays from a target. It is also possible to extract only electron beams through a vacuum thin film. The micro miniature X-ray source consists of a flexible coaxial cable and the micro miniature X-ray tube with a carbon nano tube cathode, which has been recently developed using high-voltage and ultra-short pulse technology. It has applications in research, industry and medicine, as shown in the table on the front page.

## **Feature**

- ■Easy and safe handling ■Outstanding controllability ■Local irradiation with a small radiation source
- ■Stable electron emission by using a field emission carbon nanotube ■Reduce waste materials



<sup>\*</sup>These devices are under development. \*Patent No.3090910 \*A transmission cable and an electron beam accelerator are consumable supplies.

## AET, Inc. https://www.aetjapan.com