

## 微型 X 射线源

微型 X 射线源 Mini-X 包含 X 射线管、高压源、控制电路和 USB 接口，适用于 X 射线荧光成像 XRF 以及高分辨 X 射线成像等。该微型射线源使用方便，可直接连接 12VDC 适配器，且 X 射线出光时会有 LED 红光指示，有利于人身安全。



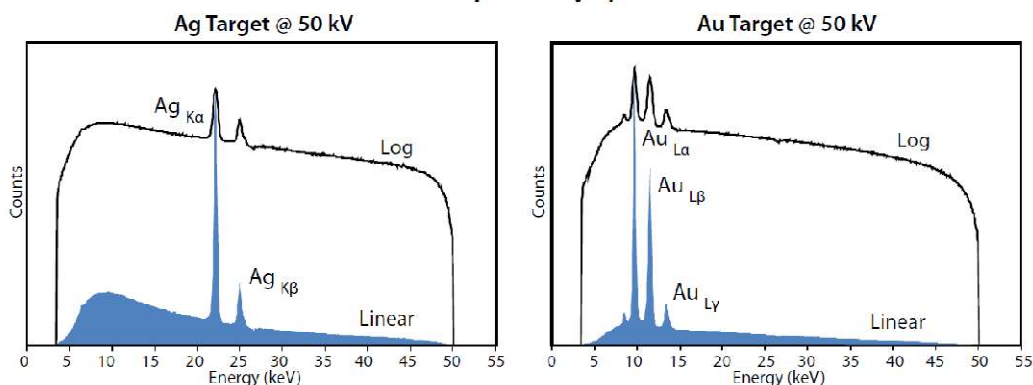
### 特点:

- ◆ 50kV / 80uA
- ◆ Ag 或 Au 标靶
- ◆ USB 接口控制
- ◆ 输出稳定
- ◆ 快速启动
- ◆ 功耗低
- ◆ 小型化

### 应用:

- ◆ X 射线荧光分析 (XRF)
- ◆ 便携式系统
- ◆ OEM
- ◆ 过程控制
- ◆ 科研
- ◆ 教学

### Mini-X Output X-Ray Spectra



The Mini-X is based on the Newton Scientific Inc. miniature X-ray source.

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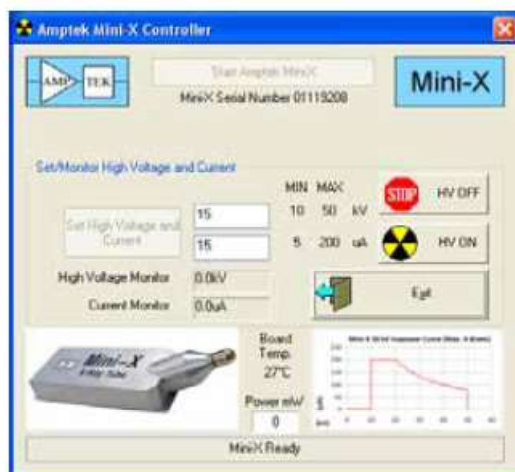
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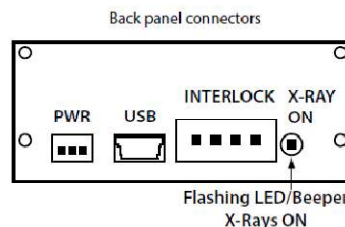
Website: [www.auniontech.com](http://www.auniontech.com)

指标参数:

Target Material	Silver (Ag)	Gold (Au)
Target Thickness	0.75 $\mu\text{m}$ ( $\pm 0.1 \mu\text{m}$ )	1 $\mu\text{m}$ ( $\pm 0.1 \mu\text{m}$ )
Tube Voltage	10 to 50 kV	10 to 50 kV
Tube Current	5 $\mu\text{A}$ min. / 200 $\mu\text{A}$ max.	5 $\mu\text{A}$ min. / 200 $\mu\text{A}$ max.
Approximate Dose Rate	1 Sv/h (100 Rem/hr) @ 30 cm on axis, 50 kV and 80 $\mu\text{A}$	2.2 Sv/h (220 Rem/hr) @ 30 cm on axis, 50 kV and 80 $\mu\text{A}$
Approximate Flux	$10^6$ counts per second/ $\text{mm}^2$ on the axis at a distance of 30 cm (50 keV/1 $\mu\text{A}$ )	$2.2 \times 10^6$ counts per second/ $\text{mm}^2$ on the axis at a distance of 30 cm (50 keV/1 $\mu\text{A}$ )
Continuous Output Power	4 W max. @ 100% duty cycle	4 W max. @ 100% duty cycle
Window Material	Beryllium (Be); window at ground	Beryllium (Be); window at ground
Window Thickness	127 $\mu\text{m}$	127 $\mu\text{m}$
Focal Spot Size	Approximately 2 mm	Approximately 2 mm
Output Cone Angle	120°	120°
Cooling	Air cooled	Air cooled
High Voltage Stability	< 0.1%	< 0.1%
Leakage Radiation	<5 $\mu\text{Sv/h}$ (0.5 mrem/h) at 5 cm with safety plug installed	<5 $\mu\text{Sv/h}$ (0.5 mrem/h) at 5 cm with safety plug installed
Power Consumption	9 W at 50 kV and 80 $\mu\text{A}$	9 W at 50 kV and 80 $\mu\text{A}$
Input Voltage	12 VDC (AC adapter included)	12 VDC (AC adapter included)
Control	USB, mini-USB connector (cable included)	USB, mini-USB connector (cable included)
Setting Time	Typical < 1 s	Typical < 1 s
Weight	360 g	360 g
Humidity	30 to 90% non condensing	30 to 90% non condensing
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C
Storage Temperature	-25 °C to +60 °C	-25 °C to +60 °C
Safety Controls and Indicators	1) External hardware interlock 2) Flashing LED 3) Beeper	1) External hardware interlock 2) Flashing LED 3) Beeper
Software	Mini-X Control Software controls voltage and current Mini-X API for custom programming applications	Mini-X Control Software controls voltage and current Mini-X API for custom programming applications
Warranty	One year or 2000 hours, whichever comes first	One year or 2000 hours, whichever comes first



USB Software Interface. Allows the user to set the voltage and current as well as monitor both parameters.



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