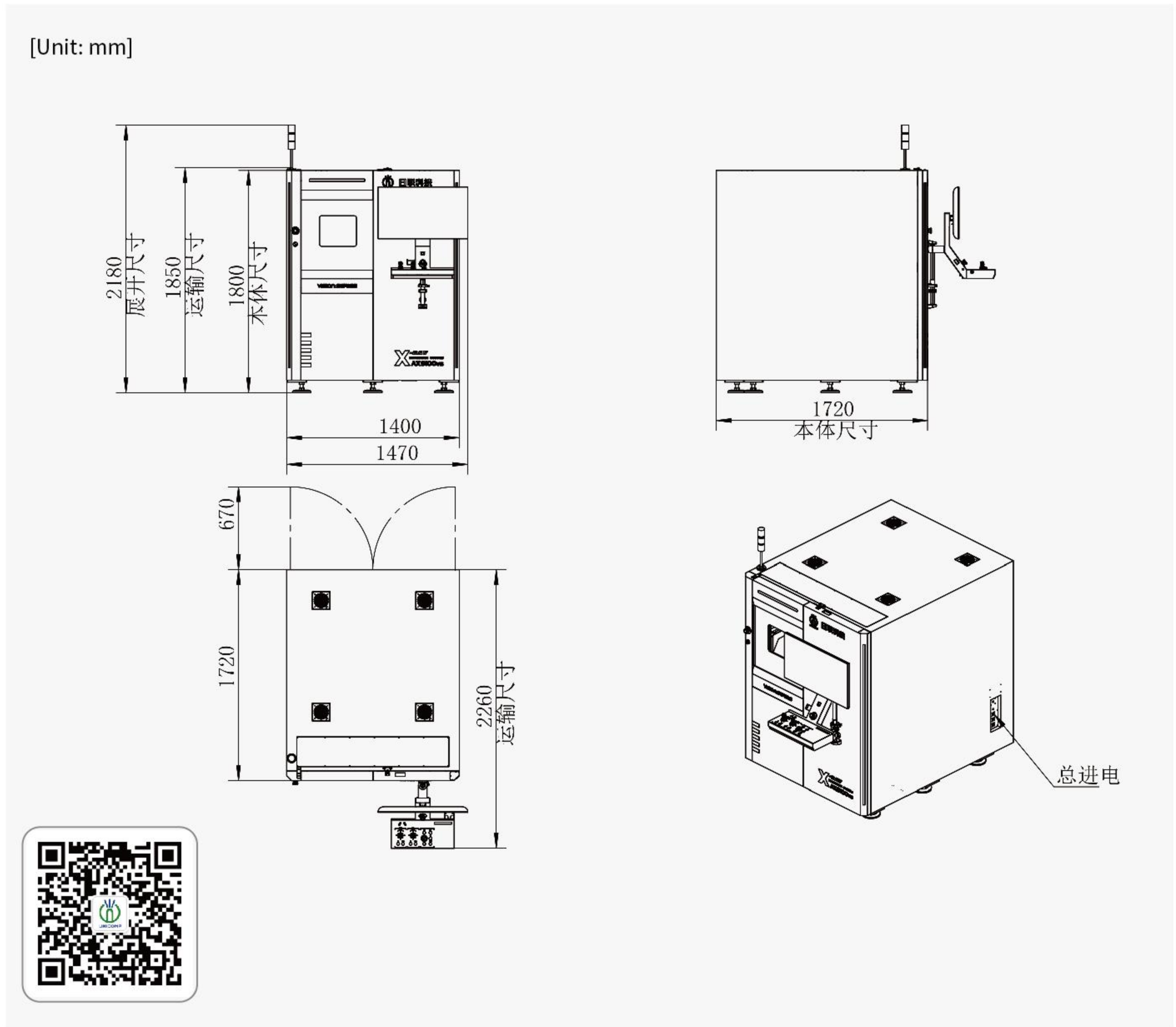


Technical Specifications |

X camera system	Acquisition Mode	2D, 2.5D, 3D (All in one)
	X-ray Source	Closed Tube130kV
	Detector	High-definition flat panel detector
	Image Resolution	≤2μm
	Magnification	1200× (Synthesis 6000×)
Stage	Loading Area	530(X) X 530(Y)mm
	Maximum Inspection Area (2D/2.5D)	500(X)mm×500(Y)mm
	Maximum Inspection Area (3D)	Planar 3D: 400(W)mm×400(H)mm ;Cone-beam 3D: 80(D)mmx200(H)mm
	Sample Weight	10kg
Software system	Automatic Navigation Function	Base on 'Teach and Go' position array, available with batch mode inspection.
	Measurement Function	Void percentage, distance, area, etc.
Equipment body	Voltage	Single-phase 220VAC, 50/60Hz
	Power	4.5kW
	Motion Control Method	Mouse + Dual Joystick + Keyboard
	Dimensions	1400mm(L) X 1720mm(W) X 1800mm(H) Excluding the display Monitor
	Weight	≈2925Kg
	Control Unit	Control PC
	3D Construction Method	Multi-mode 3D Reconstruction
	Radiation Dosage	<0.5μSv/h



Tel: 400-880-1456
Web: www.unicomp.cn

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Chongqing Unicomp Technology Co.,Ltd
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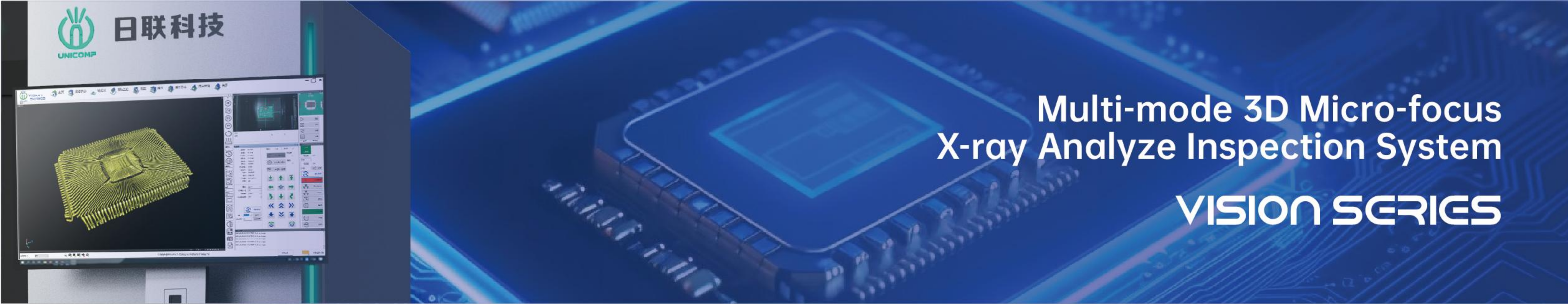
Multi-mode 3D Micro-focus
X-ray Analyze Inspection System
VISION SERIES



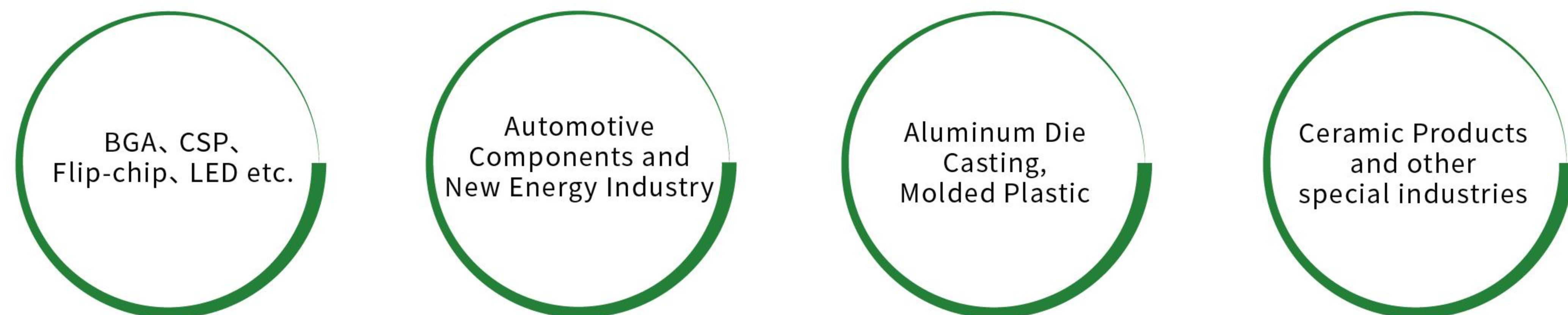
AX9100vs

Industrial X-ray CT Inspection Expert
688531.SH





Application Fields



Features

- Precise Detection Inspection of Tiny Defects
- Multi-mode 3D Reconstruction
- Synchronized 7-axis manipulation with any Angle
- Batch Mode Positioning Inspection
- Closed Tube with Maintenance-free X-ray Source
- Multi-angle Image Tracking System
- High-resolution FPD Detector
- Precision vibration-free rotation table on air bearings(Optional)

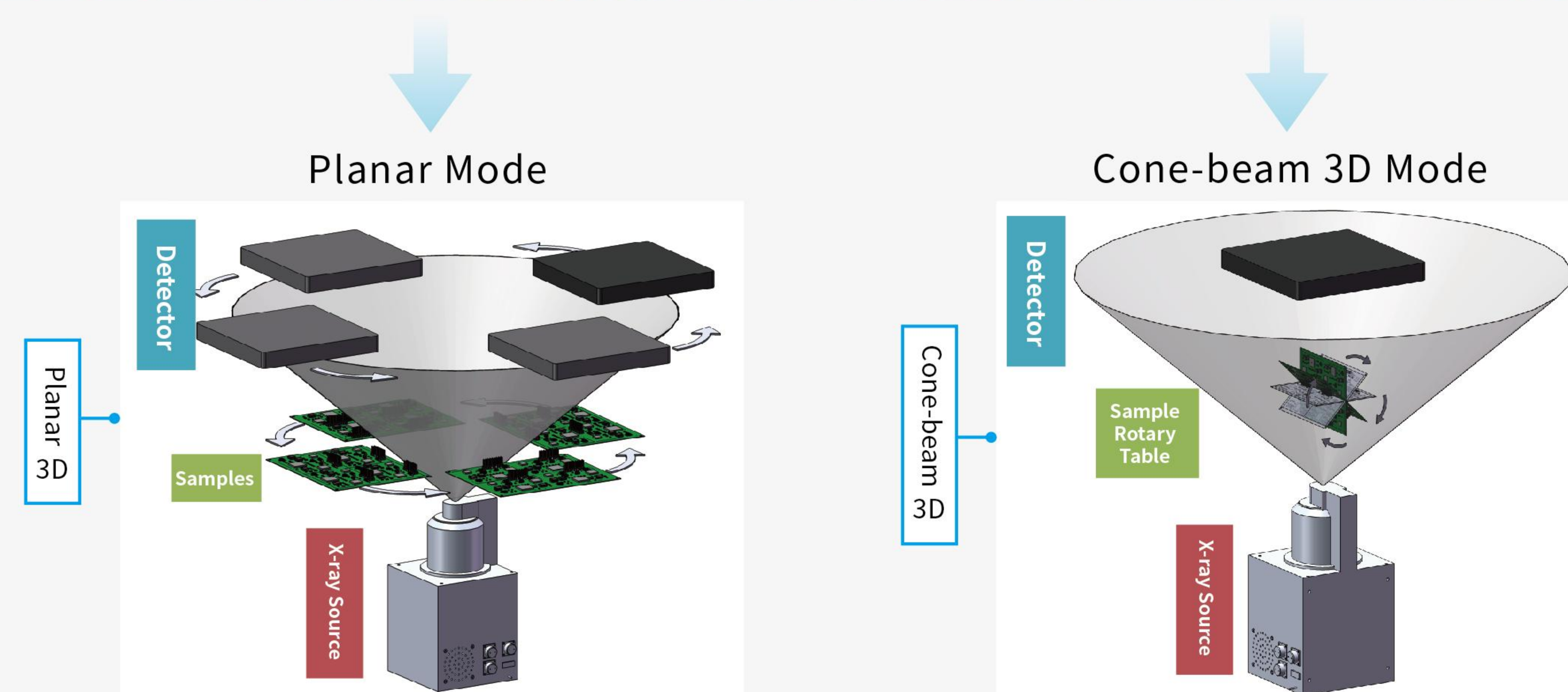
Reconstruction Principles

Planar 3D

For planar, large-sized products, FPD(Flat Panel Detector) and sample table perform synchronized 360° circular motion to acquire projection images. This process is powered by our proprietary PCT 3D reconstruction technology, which enables high-speed, high-precision, multi-resolution 3D volumetric data analysis and inspection.

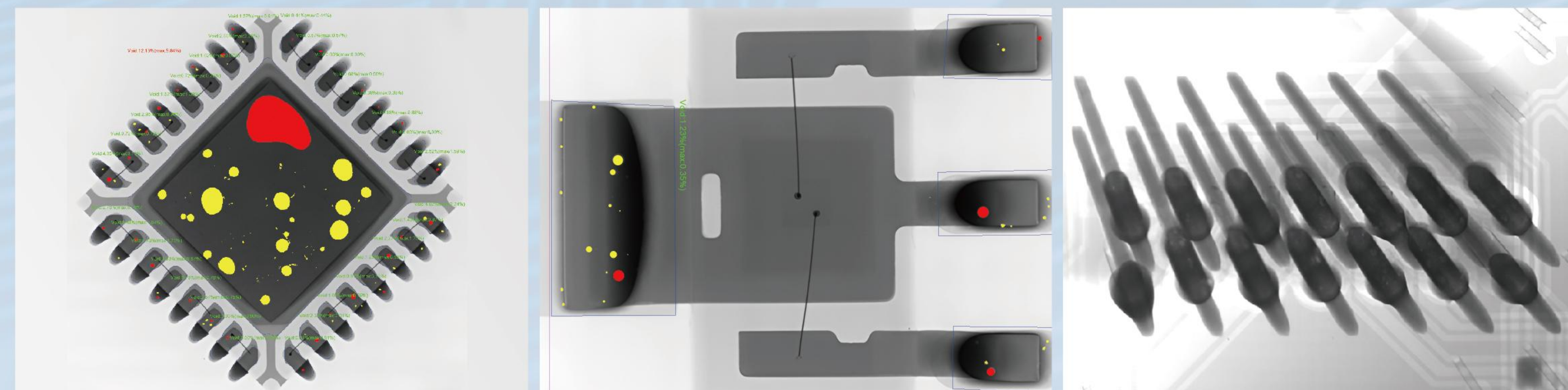
Cone-beam 3D

For small-sized samples, the sample is rotated 360° between the FPD and the X-ray source to acquire high-precision projection images required for ACT reconstruction. The software integrates our proprietary image acquisition trajectory calibration technology to reconstruct finer and higher-quality volumetric data for samples's internal structure analysis and inspection.

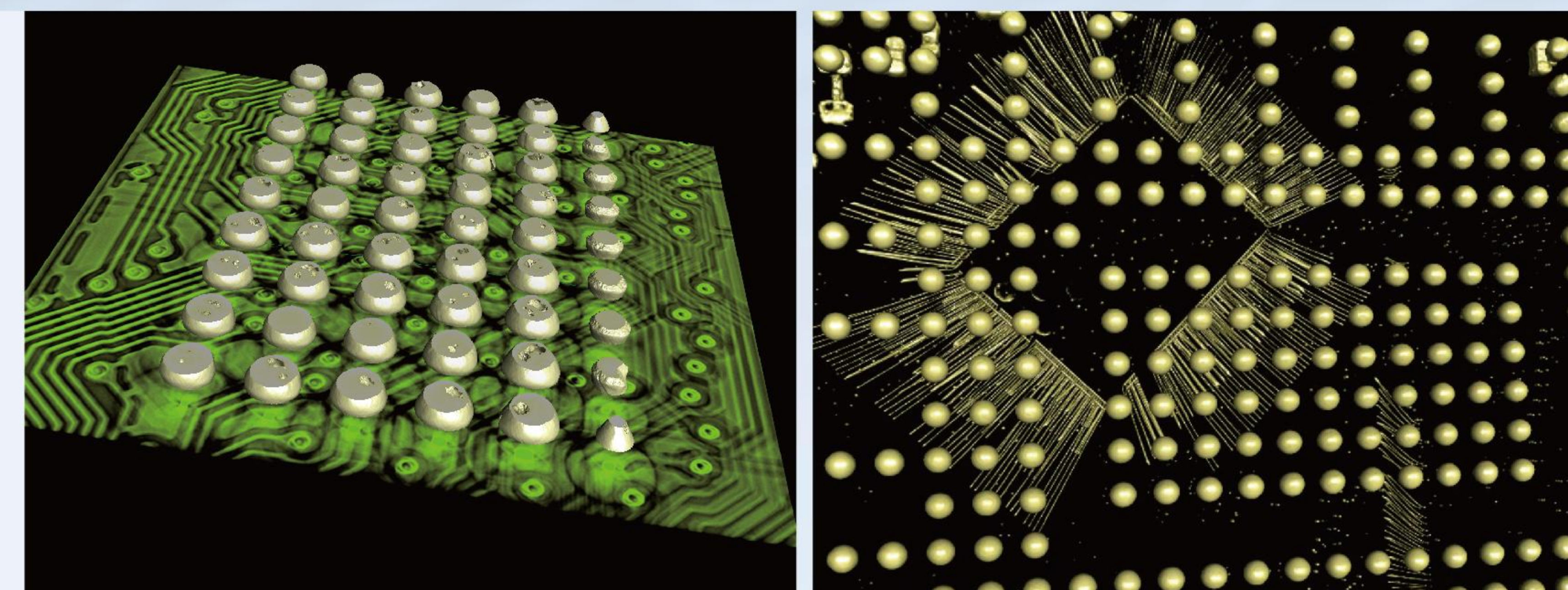


Application Cases

2D/2.5D



3D

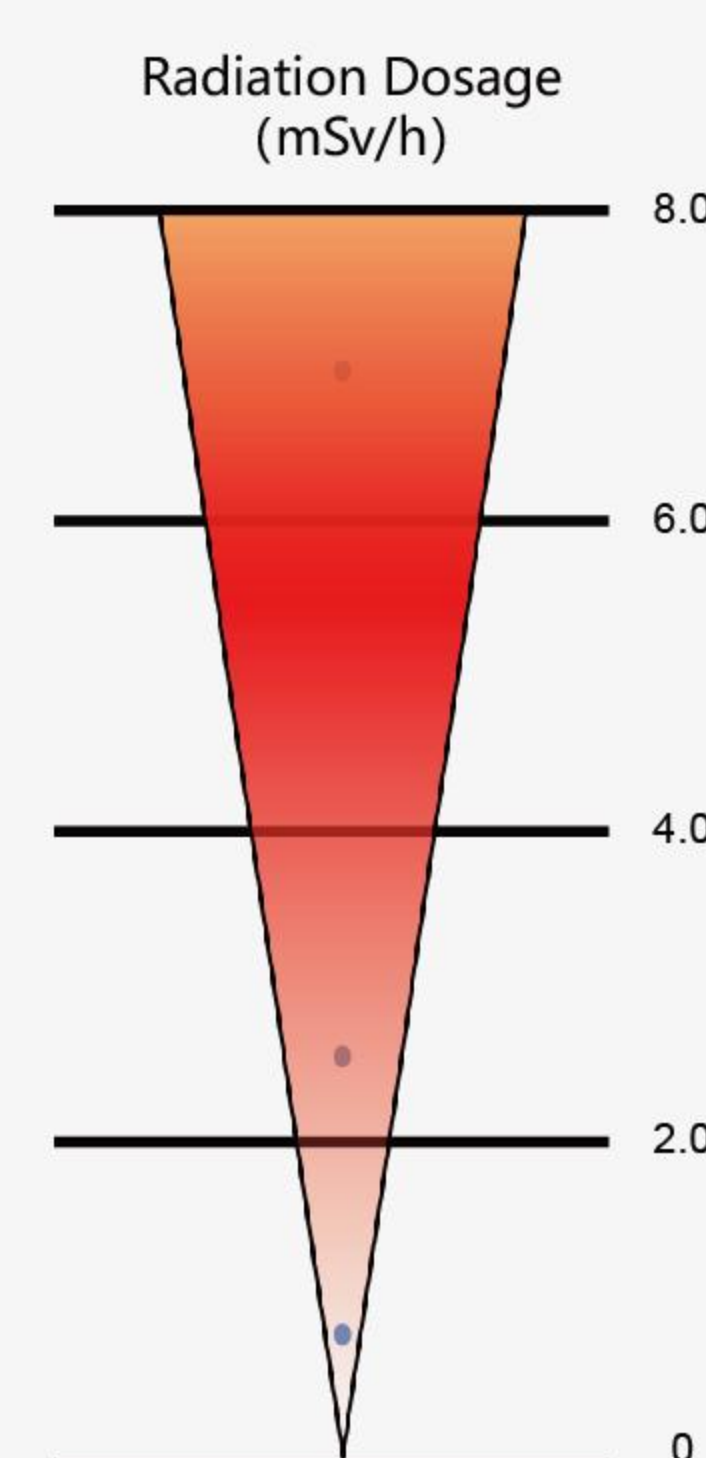


Planar Mode

Cone-beam 3D Mode

Dosage Safe settings

Radiation dose



Hospital CT chest x-ray check
6.9mSv/time

Natural radiation exposure within a
2.4mSv/Year (world average)

Operating machines run 8H/Day, the
cumulative dosage of radiation received
is less than 0.876mSv/Year.



EMERGENCY BUTTON

In case of emergency, press the emergency button to quickly cut off the moving parts of the device and the power supply of the radiation source.



Interlock

High-sensitivity limit switch ensures that the power of X-ray source is automatically cut off once the door and window are opened.

- Device body radiation leakage $<0.5\mu\text{Sv/h}$
- Meeting the international FDA radiation health protection standards ($<1\mu\text{Sv/h}$)
- Radiation is calculated based on the Unicom prototype storage environment, including ambient radiation.