

Microfocus X-Ray Inspection Systems

CT Systems for the SMX-1000 Plus/SMX-1000L Plus

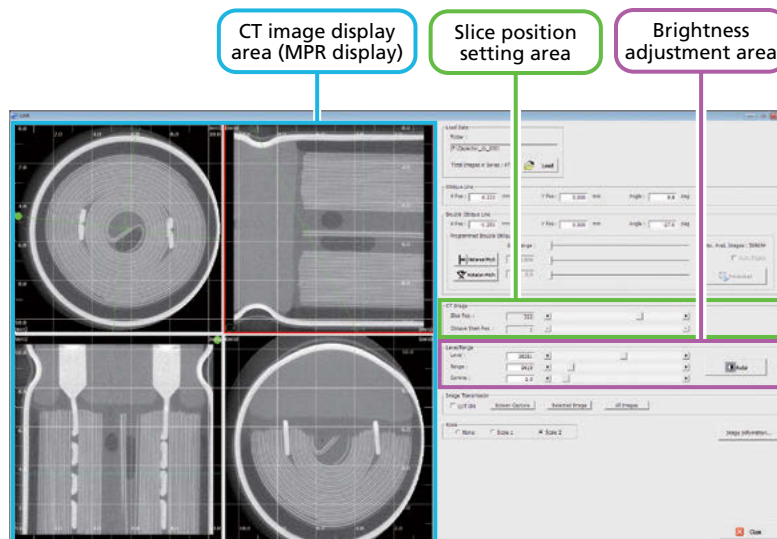
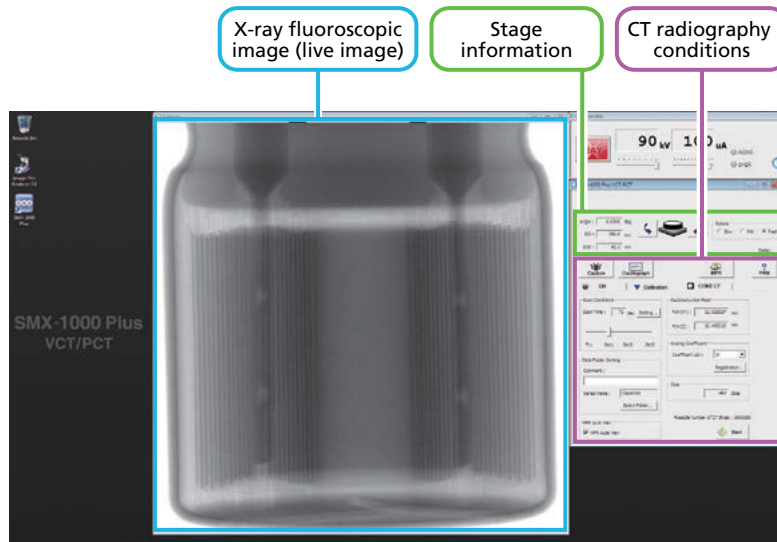


New Solutions Spring from Three Dimensional Image Analysis

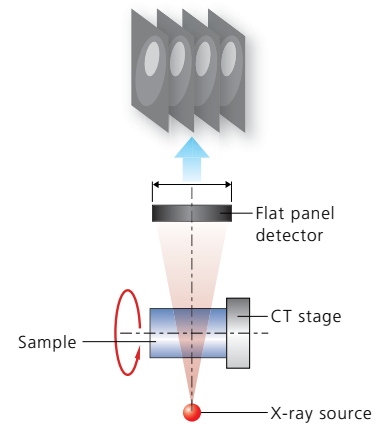
With this special CT system for the SMX-1000 Plus/SMX-1000L Plus microfocus X-ray inspection systems, placing the compact CT unit on the inspection stage and switching to the special CT software enables 3D image analysis, which is not available with conventional inspection functions. In a complete departure from the complicated operating windows typical of CT systems, cross sectional images can now be obtained using simple procedures added to our popular inspection software. As a result, structural analyses of the 3D structure of electronic parts and defect analyses of specific layers can easily be confirmed.

In combination with the optional VR software, you can also create further reports with 3D representations, void quantities, and volumes.

User Interface



Schematic Diagram



Main Window

Used for X-ray control and CT stage control.

The X-ray fluoroscopic image is updated and displayed in real time. Select the parameters for the CT radiography conditions.

Sub Window

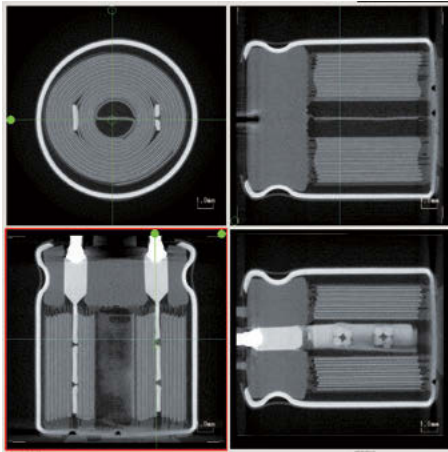
The CT radiography results are displayed using MPR.

Use the double slide bar to adjust the cross sectional position and brightness. The scale display can be toggled ON/OFF.

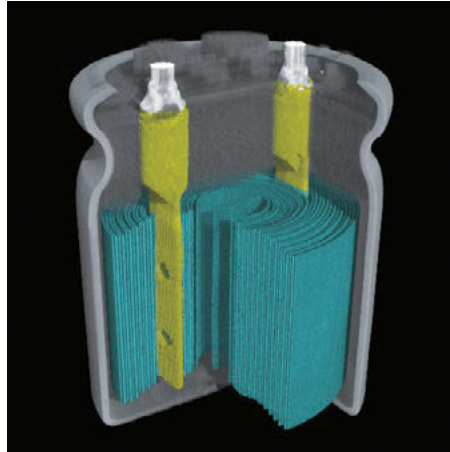
MPR is an abbreviation for Multi Planar Reconstruction, which is a method of calculating cross sectional surfaces when an arbitrary cross section is taken from 3D data.

Applications

Electrolytic Capacitors

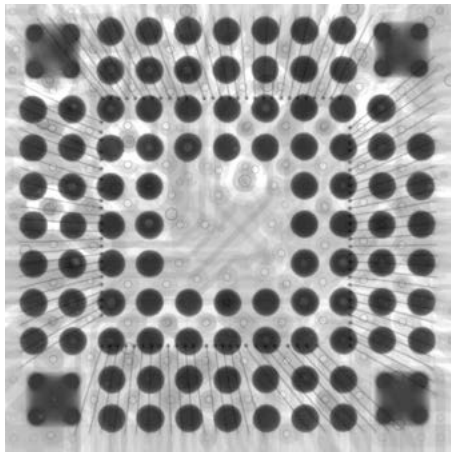


(MPR Images)

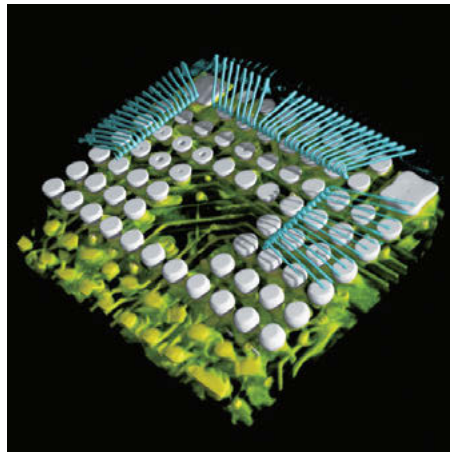


(VR Image)

BGA (Ball Grid Array)

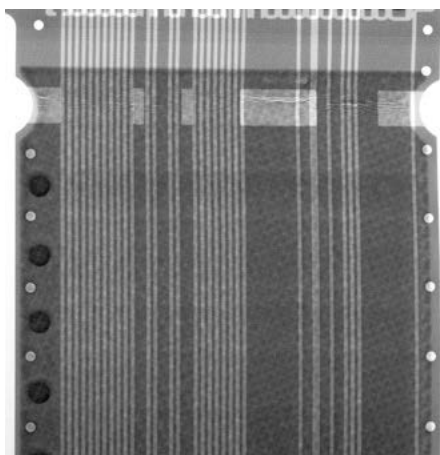


(Fluoroscopic Image)



(VR Image)

Flexible Printed Circuit



(Fluoroscopic Image)



(VR Image)

Specifications

	CT Systems for the SMX-1000 Plus / SMX-1000L Plus
P/N	362-83650-11
Maximum Sample Size	Board shaped: 50 × 100 mm (about 2 mm thick) max.
Maximum Sample Weight	100 g max.
Inspection Field of View (FOV)	Approx. 5 to 30 mm
CT Image Size	512 × 512
Views	600 or 1,200
Processing Time	Data acquisition time: Approx. 1.5 min or more Reconstruction time: Approx. 3 min or more
Operating Temperature	10 to 35 °C
Utilities	100 V AC, 1.5 kVA (Including the SMX-1000 Plus main unit)

- The P/N will differ if a CT system is added to an SMX-1000 or SMX-1000 Plus currently in use.
- A special PC is separately required to use the 3D display software.
- Windows 10 64-bit operating environment is required.

Optional Software

3D Image Analysis Software

VGStudio

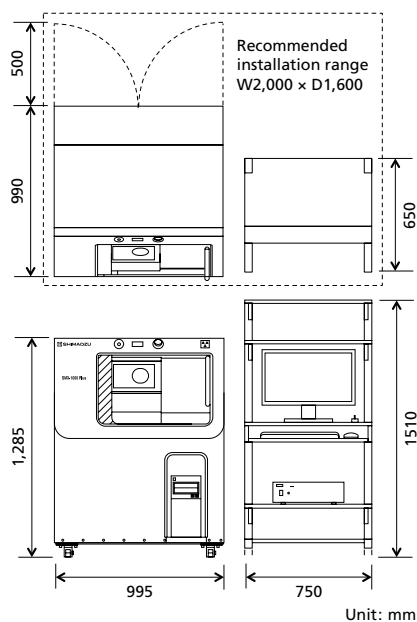
P/N 362-99445-01

VGStudio MAX Edition (VGStudio high-function edition)

P/N 362-99445-03

Capable of volume rendering displays (three dimensional display of 3D images and display of 3D internal cross sections) and creating movies.

Installation Space and External Dimensions



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