Metal Artifact Reduction Software

For the inspexio SMX-225CT FPD HR Microfocus X-ray Computed Tomography System
**Metal Artifact Reduction Software**

The Metal Artifact Reduction Software is a reconstruction software program used to reduce metal artifacts in the cross-sectional images acquired using Shimadzu’s micro-focus x-ray computed tomography system, inspeXio SMX-225CT FPD HR. This software allows for easier and more accurate analyses in the cross-sectional images.

1. **Cross-section images obtained by X-ray CT system**

2. **Run the Metal Artifact Reduction Software**

3. **Results**

**Live Preview Window:**
The corrected images are displayed in real time during the reconstruction. This feature allows the user to review the efficacy of the metal artifact reduction.

**Best Suited to Workpieces**
Shimadzu’s original algorithm optimizes the parameters for the image reconstruction based on the material of the workpiece.

Observation Work

Aluminum

Iron

Resin

Cross-section images obtained by X-ray CT system
Sample Images (The Effect of Metal Artifact Reduction)

Connector

Photo Sensor

Lithium-Ion Battery

Notes:
- This software is compatible only with the CT image data generated by inspeXio SMX-22SCT FPD HR.
- This software cannot remove metal artifacts from all workpieces.
- The efficacy of the artifact reduction depends on factors such as the workpiece’s shape, material, scan conditions, and scan method. Please confirm that you can achieve the desired results prior to purchasing.
- The CT data created using this software does not guarantee image measurement accuracy.
- This software can be installed into the control computer of an existing inspeXio SMX-22SCT FPD HR.
- The effect of artifact reduction may change due to deterioration of equipment such as X-ray tube and detector installed in the CT system.
- The contents of this document are subject to change without notice.