

3D Imaging Capabilities for Part Design, Validation, and Quality Verification



Value and Benefits

- A differentiating **development tool for custom component and assembly development** and validation activities.
- Improves delivered quality, reduces downtime, and return merchandise authorizations (RMA's) by enabling **advanced part screening capabilities** for larger production runs.
- **Non-destructive, high-resolution** X-ray of parts for quality assurance, 2D, 3D, and CT scan imagery allowing for inspection of encapsulated internal details.
- Provides a superior **failure analysis capability to expedite problem resolution** and ensure corrective action effectiveness.
- Functionality allows for **remote viewing & screening** online by customers, and off-premise plants. *Not on-site. No worries!*

- Xylon's Y. Cougar microfocus X-ray machine is a specialty high-magnification imaging system that has recently been added to our laboratory capabilities.
- Rated for **non-destructive testing** applications and quality assurance performance.
- Inspection of internal details of encapsulated, hidden, and sealed components and assemblies with 2D/3D imagery, CT scans.
- Valuable for many markets and applications including: Automotive, Mil-Aero, Telecommunications, Medical, Aviation, HVAC/R, Test & Measurement, and more.

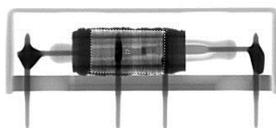


Figure 1.

2D Analysis

Figure 1. X-ray of an LI series reed relay measuring 30mmx10mmx10.4mm. Scans can detect construction details such as solder connections, winding build, and lead routing with 2D/3D scans throughout even the smallest of relays.

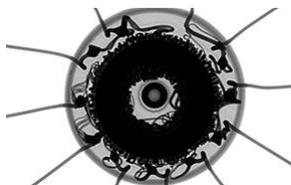


Figure 2.

Figure 2. X-ray of MILPRF27 Grade 5, encapsulated toroidal transformer with multiple windings measuring 35mm in diameter. 2D and 3D scans enable inspection and non-destructive failure analysis.

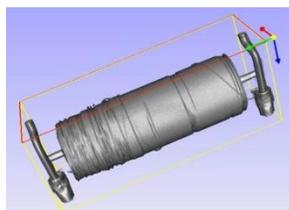


Figure 3.

3D Analysis

Figure 3.
Quality Assurance
Non-Destructive Failure Analysis
Evaluate Difficult to Penetrate Materials
Deep Root Cause Analysis and Accuracy
Detect Foreign Objects and Debris
View Windings, Terminals, and Joints in Detail