

Microfocus X-ray Inspection



Most Accurate Analyses and
Highest System Versatility

X8011-II PCB | X8068 | X8068 SL

3D MXI/AXI

Brilliant X-ray Results Down to the Finest Detail

Microfocus X-ray Technology by Viscom

Wherever X-ray inspection places the highest demands on tube performance and image resolution, systems that are distinguished by very special strengths are required. From manual inspection (MXI) of individual components to fully automated inspection and handling (AXI) of large and heavy objects, Viscom offers the right solution. Brilliant imaging results are ensured by the use of open microfocus transmission tubes that Viscom develops and manufactures in its own state-of-the-art X-ray competence center. Other tubes are available on request.

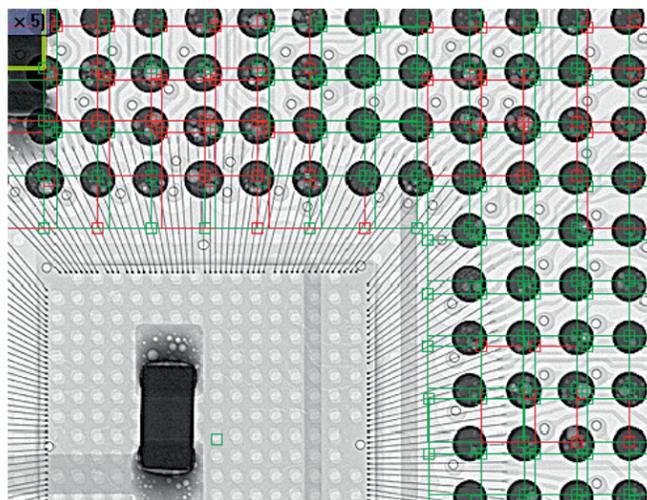
Each of the three machines – X8011-II PCB, X8068 and X8068 SL – offers customizable configuration options tailored specifically to individual applications, whether in electronics manufacturing or in a completely different field.



X8011-II PCB – Customized 3D MXI

Standard-setting, intelligently networked solution for high-precision offline X-ray inspection

- Full flexibility between manual and semi-automated inspections
- Extremely accurate magnification of image details thanks to high-resolution flat-panel detectors
- Large selection of modules for perfect sample handling
- 3D reconstructions with optional computer tomography tools developed by Viscom



The area of use of the X8011-II PCB ranges from special inspection of a single object over sample analysis up to small series inspections. Even in extremely long continuous operation, high-quality tube technology guarantees perfectly stable X-rays. This, together with the use of state-of-the-art digital flat-panel detectors in the machines, ensures optimal image quality even at the highest magnifications.

With the aid of the optional computer tomography functions, suspicious areas of the inspection object are located even more efficiently. Via the extraction of slice images annoying shadows can be entirely eliminated.



X8068 – Extremely Versatile 3D MXI

High-performance manual inspection of especially large and heavy components

- First-class automatic analysis routines and other top features like those of the X8011-II PCB
- Ideal for quality inspection of objects with diameters of up to 722 mm (28.4")
- Very stable manipulator designed for large and heavy samples
- Detector pivoting range up to 60°

Like the X8011-II PCB, the inspection system X8068 is equipped with unbeatable features including extremely easy operation, extensive options for analysis and the highest resolutions for optimal recognition of details. The machine makes the most of its special advantages when it comes to reliable manual X-ray inspection of longer, wider and heavier objects.

The 60° pivoting range of the detector is identical to that of the X8011-II PCB and X8068 SL inspection systems from Viscom and covers a correspondingly large inspection area. The components examined in the X8068 can weigh up to 15 kg (33 lbs).



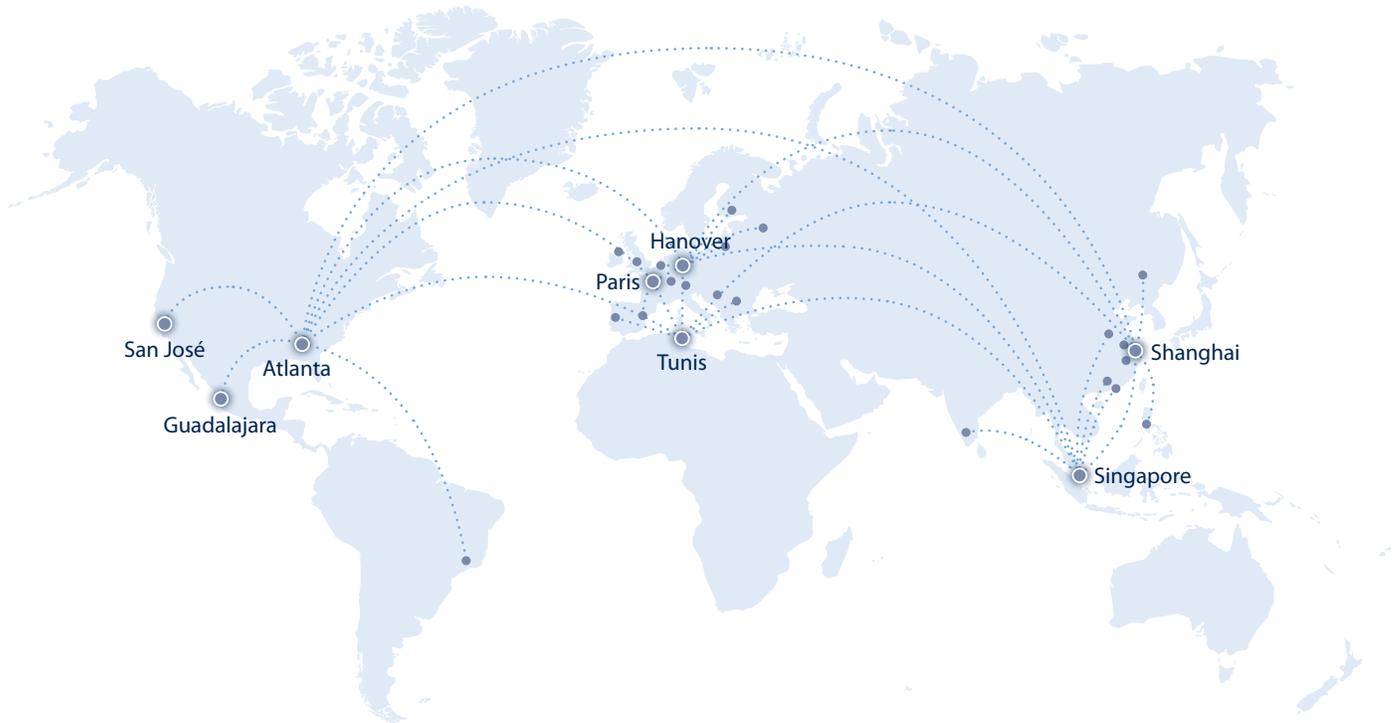
X8068 SL – Very Powerful AXI

Inline handling for special requirements of electromobility and renewable energies

- Smart AXI solution for inspection objects with special dimensions and weights
- Transport concept with workpiece carriers for various object sizes
- Can be seamlessly integrated in final assembly lines and other production processes
- Customer-specific system configuration

The X8068 SL was developed for the versatile, fully automated examination of power electronics components, but is equally suited for various other inspection tasks and is particularly recommended when optimal inline X-ray of solid, heavy and large objects is required. As in the X8068, special workpiece carriers are used, which can also hold several smaller test items.

Examples of applications where the inspection system X8068 SL from Viscom is put to optimal use include, among others, quality control for battery modules, inverters or DC/DC converters – and in detail the in-line X-ray inspection of THT and large-area solder joints.



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