

AI-powered soldering quality inspection

A Deep Learning-based tool revolutionizing soldering inspection for Surface Mount Devices by excelling pixel-level detection of solder voids and non-wetted areas

Key features



Full automation

Deep Learning unleashing fully automated soldering inspection: no manual operation required



Real time

One minute from lot inspection to standard-compliant reports generation to customers



Pixel-level accuracy for solder voids and non-wetted areas detection and measurement



Deployable across machines and edge devices in factories or hosted in the cloud and accessible from anywhere

Why choose Quasar?



Full-service activation

Full-service activation tailored for your devices, including image labelling for model training



Deployed in production

Deployed in production for automotive devices, compliant with international standards



Drastically reduces non-quality and labor cost



Dramatically accelerates root cause diagnosis thanks to lot-level analysis







Soldering quality inspection in 3 clicks



Technical specifications

Characteristics	Specifications
Statistical analysis	 Maximum and average solder voids/non-wetted areas percentage calculation at pad, product, and lot level Pass/fail verification compliant with international standards (IEC, JEDEC and IPC)
Automated report generation	 Visualization of solder voids/non-wetted areas and pads for each device Heatmap illustrating solder voids/non-wetted areas distribution for all the devices in the lot
Device and X-ray machine agnostic	Compatible with and can operate seamlessly across various types of devices and X-ray machines

quasar-assembly.com

 \bigoplus

+33 (0) 7 80 90 60 31



Sales@quasar-assembly.com