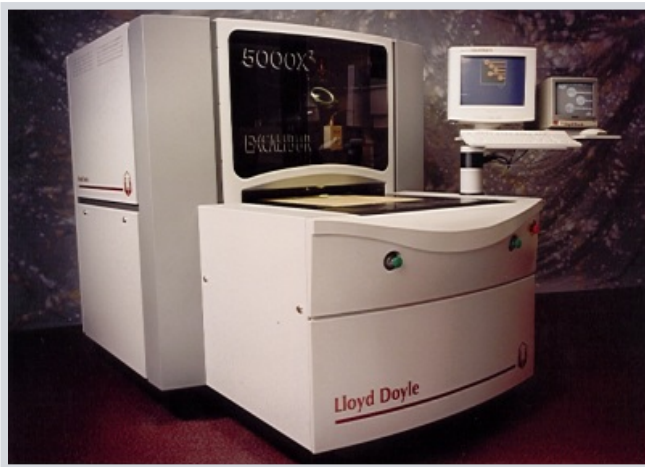


EXCALIBUR 5000X² is the high speed derivative of the successful EXCALIBUR range of Automatic Optical Test systems (AOT).



EXCALIBUR 5000X² is able to scan a given area at any resolution faster than any competing equipment. The system is a development of the EXCALIBUR 5000X equipment and uses the same connectivity based fault detection algorithms to give unrivalled performance detecting all functional and cosmetic faults with no false alarms.

The versatile 5000X² range includes single and dual camera machines together with twin table machines and extended format options. In addition, options exist that enable the inspection of BGA carrier type circuits and microvia holes. All variants are able to communicate with any proprietary front-end CAM station for download of inspection data. The inspection reference data is in the form of a netlist-per-layer or additionally the option of a full resolution CAM generated bitmap is available. Either method offers rapid on-line set-up with EXCALIBUR producing an accurate fault report immediately after inspection. Faults identified by EXCALIBUR can be verified either on-line using the CCTV or alternatively the inspection reports can be downloaded to the SABRE or SCIMITAR repair stations for a more discerning investigation and repair. EXCALIBUR 5000X² will find all the faults on PCB images most efficiently and in the shortest time.

A detailed specification appears overleaf.

SPECIFICATION

PANEL SIZE:

Approximately
24" x 30" (610mm x 760mm)

INSPECTION SIZE:

20" x 24"
(500mm x 610mm)

Note: Larger format scanning is possible using other products in the EXCALIBUR range.

THROUGHPUT:

Up to 450 sq. ft per hour (45 m² per hour)

RESOLUTION:

Options:
10.0micron systems give 3 mil (75micron) line/space scanning
7.5micron systems give 2 mil (50micron) line/space scanning
5.0micron systems give sub-2 mil (sub-50micron) line/space scanning

MASTER SOURCES:

CAM generated netlist -from any proprietary CAM station
CAM generated bitmap -from any proprietary CAM station

FAULTS DETECTED:

All functional and cosmetic faults found using netlist and cosmetic detection algorithms.

FAULT VERIFICATION AND REPAIR:

On-line using CCTV
Off-line using:
Optional penmarker system
SCIMITAR or SABRE repair stations

MATERIALS:

Most production materials including:
Bare copper
Treated copper
Artworks

Pb/Sn

DIMENSIONS:

Width 1.47metres
Depth 2.09 metres
Height 1.60 metres
Weight 1.1 tonnes

PRODUCT TYPES:

Signal images
Power/ground images
Mixed signal/power/ground images
Drilled, SMD and mixed pattern outer layers
Blind and buried via work

FACILITIES:

LAN connection for all data communication. VDU and CCTV fault images Multi-language display. Engineering diagnostic tools. Software upgrades available over internet

OPTIONS:

Large format scanning up to 1metre x 2 metre maximum.
Pen marker system for fault identification.
On-line fault report printing.
High resolution optical systems.
Pinless registration.
Additional cameras to give dual camera systems.
Extended storage HDD.

MACHINE RANGE:

5000X² - 10.0m,
7.5m or 5.0m resolution
5000X²DC – dual camera
5000X²TT – twin table system
5000X²TTAuto –twin table with autoloading/unloading
5000X²BGA – for BGA carrier inspection



Lloyd Doyle Limited
Molesey Road
Walton on Thames
Surrey
KT12 3PJ
UK

Telephone: +44 1932 245000
Fax: +44 1932 220555

www.lloyd-doyle.com