X-RAY INSPECTION

# SEAMARK X7600B

## High-End Offline X-Ray Inspection Machine with 2.5D Imaging

2.5D Oblique Imaging | 360° Rotation | 60° Detector Tilt | Maintenance-Free Sealed Tube | Multi-Layer Safety




## OVERVIEW

The **Seamark X7600B** is a high-end offline X-ray inspection system for semiconductor packaging, BGA and CSP voids, IGBT modules and SMT assemblies. 2.5D oblique imaging gives depth information that standard 2D inspection cannot provide.

360° sample rotation and up to 60° detector tilt show solder joints and bond wires from every side, while the maintenance-free sealed microfocus tube keeps the cost of ownership low.

## KEY FEATURES

**Advanced 2.5D oblique imaging**
better depth perception and precise spatial localisation of defects

**Multi-angle inspection**
360° sample rotation and detector tilt up to 60°

**Real-time image enhancement**
clear images of misalignment, bridging, BGA voids, cold joints and wire bonds

**Maintenance-free sealed tube**
reflective sealed microfocus source for long, low-cost operation

**Multi-layer safety interlocks**
real-time radiation leakage monitoring and triple protection

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **X-Ray Tube** | Reflective sealed microfocus tube, maintenance-free |
| **Tube Voltage** | 40–130 kV |
| **Tube Current** | 10–300 µA |
| **Max. Output Power** | 39 W |
| **Focal Spot Size** | 5 µm (at 4 W) – 40 µm |
| **Detector** | Amorphous silicon flat panel, 1536 × 1536 pixels, 16-bit A/D, 20 fps |
| **Field of View** | 130 × 130 mm |
| **Resolution** | 5.8 Lp/mm |
| **Platform Size** | 510 × 510 mm |
| **Control System** | Industrial PC, Windows 10 (64-bit) |
| **Power Supply** | 220 V, 10 A, 50–60 Hz |
| **Dimensions (L×W×H)** | 1700 × 1770 × 1800 mm |
| **Net Weight** | 2050 kg |

### Configuration, demo and quotation

InterElectronic is the Seamark partner for Hungary and Central Europe: application advice, sample tests, installation, training and service.

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Specifications according to Seamark. Subject to change without notice.