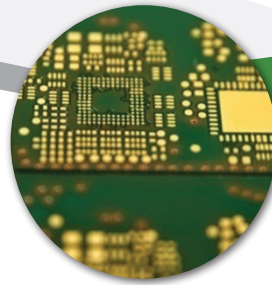# BOWMAN
Coating Measurement Instruments

B SERIES XRF

High Precision Coating Measurement System

What's Distinctive:
Exceptional performance in an entry-level XRF

Who Benefits

The B Series desktop XRF is best suited to customers who have:

- › Relatively low sample testing volumes
- › Larger samples that require only one test location per part
- › Large PCBs that require simple spot checks per lot of new material
- › Budget restrictions with desire to upgrade components at a later date
- › The need to meet the requirements of IPC-4552A

Key Features

The B Series is Bowman's most basic top-down measurement configuration. The sample stage is a fixed base plate; operators place parts into the chamber and use a video image to align the desired location within the guides on the screen.

Configuration

The standard configuration includes a single fixed collimator; a camera with a fixed focal distance, solid-state PIN detector, and a long-life micro-focus x-ray tube. As with all Bowman models, components can be upgraded to include multiple collimators, a variable focal camera, or an SDD detector.

Made in the USA

BOWMAN
1125 Remington Rd.
Schaumburg, IL 60173

› **847.781.3523**
› www.bowmanxrf.com
› sales@bowmanxrf.com

XRF Equipment • Local Tech Support, Worldwide • Standards • ISO/IEC 17025 Accredited Lab

BOWMAN B SERIES XRF
Superior technically.
Supported locally.

Specifications

X-ray Excitation
50 W (50kV and 1mA) micro-focused W anode tube

Detector
Silicon solid state detector with 190eV resolution or better

Focal Depth
Fixed focal depths with laser (optional multi focal)

Video Magnification
30x: Standard
45x: Optional

Working Environment:
50°F (10°C) to 104°F (40°C) and up to 98% RH, non-condensing

Weight
34kg

Programmable XY:
Table size: Not Available
Travel: Not Available

Element Range
Aluminum 13 to Uranium 92

Analysis layers and elements
5 layers (4 layers + base) and 10 elements in each layer. Composition analysis of up to 25 elements simultaneously

Filters/Collimators
4 primary filters / single fixed collimator

Digital Pulse Processing
4096 CH digital multi-channel analyser with flexible shaping time. Automatic signal processing including dead time correction and escape peak correction

Processor:
Intel, CORE i5 3470 (3.2GHz), 8GB DDR3 Memory, Microsoft Windows 10 Prof, 64bit equivalent

Camera optics:
1/4" CMOS-1280×720 VGA resolution

Power Supply:
150W, 100~240 volts; frequency range 47Hz to 63Hz

Dimensions (HxWxD):
Internal: 140mm (5.5"), 310mm (12"), 335mm (13")
External: 450mm (18"), 450mm (18"), 600mm (24")

The Bowman Partner Network

Bowman's Partner Service Network was established to facilitate large multi-national projects in the PCB industry. Today, it has become the model for XRF technical service worldwide, serving board shops, electronics manufacturers, automotive and aerospace OEMs, jewelry manufacturers, and contract metal finishers in all sectors.

The Bowman Partner Network enables XRF technical service experts worldwide to provide same-day response to every service, repair and upgrade requirement.

Bowman global partners are certified annually, and maintain the highest standards of excellence and best practices.

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