BOWMAN
Coating Measurement Instruments

G SERIES XRF

High Precision Coating
Measurement System

What's Distinctive:
Unique measurement geometry, entry level price

Who Benefits

The G Series XRF is ideal for labs and production lines
particularly where users have:

› Limited benchtop space

› Budget limitations

› A preference for "bottom-up" operation with a motorized Z axis

› The need to position smaller samples quickly and easily

Key Features

The two most distinctive features of the G Series are precision video imaging, and
"bottom-up" measurement using a motorized Z-axis with laser-based auto-focus. The
latter is a feature unique to Bowman. An available manual XY stage with 1.5 X 1.5"
travel facilitates easy positioning of small and large parts.

Configuration

The standard configuration includes a single fixed collimator and a fixed focus camera. An
SDD detector is included, along with our long-life micro-focus x-ray tube. As with all
Bowman benchtop XRFs, instruments can be upgraded to include multiple collimators or
a variable focal camera.

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 G 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
Single fixed focal depth with laser and auto focus

Video Magnification
30x Micro: Standard
55x Micro: Optional
7x Digital Zoom: Standard

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

Weight
25kg

Optional Manual XY Sample Stage
Table Size: 11x10"
Travel: 1.5x1.5"

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 collimator (optional dual)

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: 100mm (4"), 325mm (13"), 300mm (12")
External: 325mm (13"), 350mm (14"), 450mm (18")

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, the fastener industry, 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.

CE **ANAB**
Certificate #L2213

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