

# PORTASPEC® X Series X-Ray Spectrograph

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## Model 2501XBT

This 2501 X Series Portaspec is a bench top, wavelength dispersive, x-ray fluorescence analyzer that performs nondestructive elemental analysis on a variety of sample types. The 2501 X Series version of the familiar Model 2501 Portaspec is now computer controlled. The standard operating interface utilizes a Windows® based computer.



The upgraded Portaspec “PCS” Control Software is simple and intuitive in function and offers a continuous record of analysis. It has a calibration mode that allows for a linear or quadratic fit for an almost unlimited number of standards. It also includes a specialized analysis mode designed to measure pretreatments on metal substrates.

The Portaspec is suitable to analyze from very small specimens to a maximum specimen of 2-9/16” (65mm) in diameter by 1” (25mm) thick. The Portaspec has an x-ray tube that focuses a beam

diameter of 0.75” (19mm) on to the specimen under analysis. This results in superior statistical data compared to instruments using a micro spot x-ray tube. This is notably important when analyzing pretreatments on galvanized steel substrates.

The new controller circuit board interprets and executes commands from the computer to turn x-rays on and off, set x-ray tube current and read counts on the digital scaler. An mA stabilizer board provides constant current to the x-ray tube. New to the 2501 X Series Portaspec, is a lightweight, high frequency, constant potential high voltage power supply, providing a high level of instrument stability at 10, 20 or 30 kV output.

The Model 2501XBT Portaspec comes configured with a goniometer capable of analyzing K $\alpha$  elemental lines whose range include from element 22 Ti to 47 Ag and L $\alpha$  lines from 56 Ba to 92 U.

The Two-Position Sample Holder enables you to load or unload one sample while analyzing another sample. The samples are not loaded over the x-ray port, keeping sample contamination out of the x-ray path. The sample holder can readily accept samples up to 2-9/16” (65mm) in diameter to 1” (25mm) thick.

The Portaspec is useful for analyzing powders, liquids, solids and thin films, as well as coating weight and coating thickness analysis.

*Note: Computer Model supplied with Customer's Portaspec may differ than Model shown in picture*

For more information contact:

2019



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