

Model 2501XBT Portaspec® X Series Multi-Element Bench Top X-Ray Spectrograph

Portaspec WDXRF is capable of performing multi-element sequential analysis in the range of Ti to U and is ideal for measuring coating weights of both chrome and titanium pretreatment.

The Bench Top Portaspec is similar to the original Model 2501 Portaspec X-Ray Spectrograph. It contains a rotating goniometer that allows the user to analyze up to six elements, preset sequentially one at a time. The elemental range is from element #22 Titanium to element #92 Uranium. An easy load two-position sample holder is an integral part of the instrument configured for analyzing liquids, powders, solids and thin films. Samples are changed at the open end of the holder allowing a sample to be analyzed while one is being loaded.

The Portaspec is operated by a PC Touchscreen Notebook Computer, complete with Windows®-based preinstalled Software.

Other Bench Top Portaspec versions available are Fixed Channel Single Element, Dual Element and Multi-element for sequential analysis.



Technical Data	
Bragg Angle Range	13 to 98 degrees; Two Theta

Analyzing Crystal	Lithium Fluoride (200)
Element Range Ka	22-47 (Ti to Ag)
Element Range La	56-92 (Ba to U)
Collimators	20 mil Divergent (Source) 10 mil Receiving (Detector)
X-ray Source	X-Ray Tube, Tungsten Target, Beryllium Window
X-ray Tube Voltage	30 kV Constant Potential
X-ray Tube Voltage Regulation	plus/minus 1% for plus/minus 10% line voltage variation
X-ray Tube Current	0 to 5 mA - Adjustable
Detector Tube	Sealed Proportional
Detector Supply	2700 VDC Max. (Adjustable)
Digital Scaler and Timer-Integrated	Counting Range: 1 to 999,999 Timer Range: 1 to 990 seconds
Lamps	X-Ray On
Voltage Requirements	115 Volts AC, 50 or 60 Hertz 230 Volts AC, 50 or 60 Hertz Single Phase, 300 watts Line Regulation Required \pm 5%
Dimensions and Weight	18" Long, 14" Wide, 13" High, 56 lbs.
Included Items:	
Electric Water Cooler and Circulator Windows®-based Touch-screen Notebook Computer PC Interface and Preinstalled Software	