

Model 2501XLE Portaspec® X Series Bench Top Light Element X-ray Spectrograph

The Portaspec is designed to fill a need for an instrumental technique that could rapidly and non-destructively analyze light elements in a central laboratory or in the plant using wavelength dispersive x-ray fluorescence. It has the ability to analyze powders and solids with its included single position sample holder. It has a single element option for Al, Si, P, S, Cl, K, Ca, or Zr and can measure Zirconium or Phosphorus pretreatment.

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



Technical Data	
Bragg Angle Range	13 to 145 degrees; two theta
Analyzing Crystal	Ge, PET, or LiF
Single Element Range Ka	Al, Si, P, S, Cl, K, or Ca
Single Element Range La	Zr
Collimators	20 mil Divergent (Source) 10 mil Receiving (Exit)

X-ray Source	X-Ray Tube, Rhodium Target, Beryllium Window
X-ray Tube Voltage	10, 20, or 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	Special Argon Sealed Proportional
Detector Supply	0-2700 VDC Max (adjustable)
Digital Scaler and Timer	Counting Range: 1 to 999,999 Timer Range: 1 to 990 seconds
Sample Size	1-1/4" dia. to 1-1/2" dia.
Lamps	X-ray On
Supply Requirements	115 Volts, 60 Hz, 300 Watts
Optional	230 Volts, Single Phase, 50 Hz
Dimensions and Weight	18" Long, 14" Wide, 13" High, 59 lbs.
Included Items:	
Electric Water Cooler and Circulator Vacuum Pump Windows®-based Touch-screen Notebook Computer PC Interface and Preinstalled Software	