

# PortaSpec® XLE

LIGHT ELEMENT ANALYSIS IN CENTRAL LAB

**RAPIDLY AND NON-DESTRUCTIVELY  
ANALYZE LIGHT ELEMENTS**



## PRODUCT OVERVIEW

PortaSpec® XLE 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 (WDXR) fluorescence. The PortaSpec® XLE has the ability to analyze powders and solids with its included single position sample holder. It also has a single element option for Al, Si, P, S, Cl, K, Ca, or Zr and can measure zirconium or phosphorus pretreatment.



## SOFTWARE

Powering Cianflone's full line of Portable X-Ray Spectrographic Analyzers is PortaSpec® PCS Software—a Windows®-based application that provides excellent records of prior analyses, improves productivity, and simplifies analysis. PortaSpec® PCS Software is designed for multiple industries, including tubing and bar stock, mining and minerals, petroleum, high- and low-alloy steel, scrap metals, glass, synthetic and natural fibers, building materials, can, chemical research, alloy research, automotive, nuclear testing, and welding.



## INCLUDED ITEMS

- Electric water coolant and circulator
- Vacuum pump
- Windows® based notebook computer
- PC interface and pre-installed software
- Software training and upgrades for up to a year are included with your PortaSpec® purchase.



## OUR COMMITMENT

- Top grade support
- Agile and reliable response
- Teamwork
- Lead with integrity
- Continuously innovative

## WORLDWIDE APPLICATION

Companies worldwide depend on Cianflone Scientific to provide efficient and effective, portable elemental analysis, coating thickness measurements and sample preparation.



### PortaSpec® XLE TECHNICAL DATA

|                              |  |         |
|------------------------------|--|---------|
| <b>Bragg Angle Range</b>     | 13 to 98 Degrees; Two Theta  |         |
| <b>Analyzing Crystal</b>     | LiF 200, Ge, PET, or EDDT<br>(depending on element under analysis)   |         |
| <b>Element Range Ka</b>      | 13 – 17 (Al – Cl)<br>19 – 21 (K – Sc)<br>(Single Element Option Only)  |         |
| <b>Element Range La</b>      | 40 (Zr)  |         |
| <b>Collimators</b>           | 20 Mil Divergent (Source) 10 Mil Receiving (Detector)  |         |
| <b>X-Ray Tube Voltage</b>    | 10, 20 or 30 kV Constant Potential   |         |
| <b>Voltage Requirements</b>  | 115 Volts AC, 50 or 60 Hertz<br>230 Volts AC, 50 or 60 Hertz<br>Single Phase, 300 Watts<br>Line Regulation Required $\pm$ 5% |         |
| <b>Dimensions and Weight</b> |  |         |
| PortaSpec®                   | 18" L x 14" W x 13" H  | 50 lbs. |
| Vacuum Pump                  | 13" L x 5" W x 11" H   | 30 lbs. |
| Water Circulator             | 14" L x 6-1/4" W x 12" H   | 10 lbs. |