

# Alpha Series

PORTABLE XRF ANALYZER

## Alpha Series analyzers give fast, accurate alloy grade & chemistry.

For Positive Material Identification (PMI), verification and quality assurance – without radioactivity – Innov-X offers the smallest, fastest and most versatile hand-held XRF analyzer available anywhere.

The Innov-X tube-based Alpha Series™ is isotope-free and delivers instant, accurate readings. It features a miniature X-ray tube and high-resolution detector. It is engineered around the HP iPAQ pocket PC.

### INNOV-X ALPHA SERIES™ ADVANTAGES INCLUDE:

- » Measure Cr in carbon steel to 0.03% -- for evaluating flow accelerated corrosion (FAC)
- » Designed for tests to 800° F
- » Analyze low alloy, stainless, nickel, titanium, cobalt, copper-based alloys and more.
- » Confidently separate challenging alloys such as 304 & 321, P91 & 9 Cr, Ti Grade 7 & CP Ti
- » Exceptional performance on 6061/6063



## ALPHA SERIES

### The alloy analyzer for fast and confident on-the-spot identification.

Now with SmartBeam™ technology, Innov-X combines X-ray tube expertise, multiple beam filtering capability and the HP iPAQ pocket PC. This combination, together with superior ergonomics, results in superb reliability, speed, precision and a lifetime of upgrade potential.

#### DESIGNED AND ENGINEERED FOR ALLOY ANALYSIS ANYWHERE

With its lightweight pistol grip and extended probe head, Alpha Series™ lets you reach into piping, welds, flanges and other hard-to-access areas.

#### SOPHISTICATED GRADE IDS

Alpha Series™ holds thousands of alloy grades. User may search on common names, UNS numbers, ASME, Mil Specs and more. The entire UNS library is available for search on the PDA. Alternative grade libraries may be imported anytime.

#### CUTTING EDGE PDA TECHNOLOGY

Alpha Series™ is driven by the HP iPAQ pocket PC. Data entry is instant. Reports are generated on the spot. Upgrades are possible over the lifetime of the analyzer. Bluetooth™ enabled for wireless printing.

#### BASIC SPECIFICATIONS

*Weight:* 2.625 lbs. (base wt.) 3.375 lbs (1.6 kg) with batteries.

*Excitation Source:* X-ray tube, Ag or W anode, 10-40 kV, 10–50 µA, up to 5 filter positions.

*Smart Beam:* Delivers industry-leading detection limits on critical elements Cr, V, Ti.

*Detector:* Si PiN diode detector, < 230 eV FWHM at 5.95 keV Mn K-alpha line. Temperature Range: -10°C to +50°C.

*Operation:* Trigger or Start/Stop Icon. One-touch trigger or “deadman” trigger option. Optional control from external PC.

*Power:* Li-ion batteries, rechargeable (charger included). Powers analyzer and iPAQ simultaneously. AC Adapter optional.

*Battery life:* 8 hours (typical duty cycle) using built-in; optional multiple battery pack.

*Number of Elements:* Standard package includes 21 elements. Customer may specify 4 additional, or use multiple suites of 25 elements each.

*Display Screen:* Color, high resolution touchscreen. Variable brightness provides easy viewing in all ambient lighting conditions.

*Data Display:* Concentrations in %. Spectral display with peak zoom and identification.

*Memory, Data storage:* 128 Mb standard memory. 20,000 test results with spectra, upgrade to >100,000 with optional 1 Gb flash card.

*Processor:* Intel 400 MHz StrongArm processor or higher.

*Operating System:* Microsoft Windows CE (portable system) or Windows (PC-based). Software Modes: Alloy Analytical, Fast ID, Pass/Fail. Optional lead paint, soil, others.

