

DELTA – Innovative XRF for PMI & QA/QC

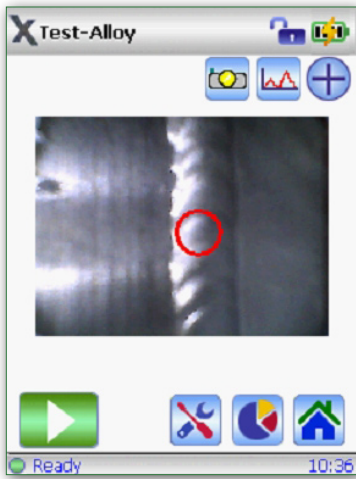
The DELTA Alloy Analyzer from Olympus Innov-X provides lightning fast, reliable compositional and grade ID analysis for a wide range of non-ferrous alloys including stainless, Cr/Moly steels, low alloy steels and high temperature alloys. The DELTA was engineered for ergonomics and industrial toughness, withstanding high temperature testing conditions, even beyond 800 °F (426 °C). The latest HHXRF from Olympus Innov-X, the DELTA is loaded with innovative features and backed by the industry's best service and support.

Weld Mask

Attach the ruggedized weld mask to the front plate of the snout, and collimate analysis to a 3mm width slot, perfect for rapid, on-site weld bead analysis. The DELTA weld mask is engineering with layered metals to exclude substrate materials from analysis.



DELTA Premium Alloy Analyzer with Weld Mask installed



DELTA screen shot of a collimated analysis of a weld bead.

Camera & Collimator

DELTA Alloy Analyzers can be equipped with 3mm diameter small spot collimation for highly focused sample analysis. An integrated full VGA camera takes a live video image of the sample tested, and superimposes a spot location for precise test location. Analyze thin weld beads independent from substrate materials. Analyze small fixture components, wires, and solders. Spot size can be changed on the fly – switch between collimated 3mm diameter spot and the standard 10mm diameter analysis spot. Sample image is saved after analysis to memory. Archive image along with analysis results and export for simple report generation.

Innovative Features for Positive Material Inspection:

Welding Inspection

Grade Match Messaging

- » Provides specifications and weld instructions for common weld materials and substrates
- » Fully customizable messages allow for refinery specific coding messages
- » Store multiple Messaging libraries per work site

Welding Grade Library

- » Activate alongside standard inspection library for comprehensive PMI work
- » Easy grade addition or editing on board the analyzer!



Weld Grade Match Message



Chemistry is always available - select OK from the Grade Match Message

Innovative Features for Inspections:

The DELTA is a reliable and rugged analyzer that maximizes both speed and accuracy. Other XRF systems have compromises – you can ID alloys quickly but an inexperienced operator may not know if an ID is wrong, or when to test longer. So how does the conscientious inspector maximize testing speed, but not increase the risk of mistaken IDs or erroneous readings? Innov-X's SmartSort automates all these decisions, allowing even inexperienced operators to maximize both speed and inspection accuracy. This powerful feature yields optimized throughput and accuracy, making the DELTA an extremely productive XRF for alloy inspection.

SmartSort

- » Specific grades can be set up to automatically extend testing time, preventing mix-ups
- » Maximizes efficiency for speed testing – automatically extends tests for light elements (Mg, Al, Si, P, S) when absolutely necessary - eliminate unnecessarily long tests AND avoid mix-ups
- » Makes the DELTA an extremely fast analyzer for inspections

Unrivaled Light Alloy Performance

- » The DELTA offers the most powerful x-ray tube in a handheld: 4x the power!
- » The DELTA provides unmatched aluminum and light alloy analysis capabilities
- » Identify alloys differing principally by only small amounts of light elements
- » Accurately quantify Si, S, and P content in stainless steels and low alloys
- » Comprehensive analysis of titaniums, aluminums, red metals, and high temp and refractory alloys

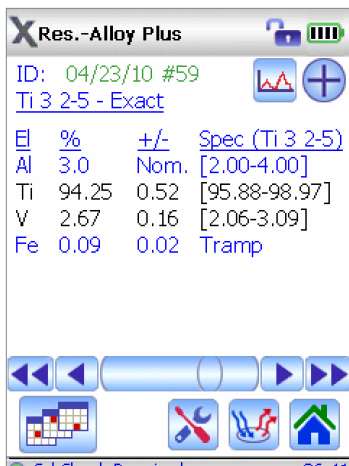
High Temperature Ready

- » The DELTA is engineered to be utilized for in-service inspection of high temp systems, even in excess of 800°F (426°C)
- » The DELTA's industry-exclusive heat sink dissipates heat away from the XRF electronics
 - › Allows the DELTA to be used for longer durations in hot environments
 - › Facilitates longer reliability of key XRF electronic components
 - › Provides faster cooling of electronics in between high temperature exposure



Tramp Library

- » Standard for years in OES systems, the DELTA is the first HHXRF to introduce this feature
- » Allows operators to set a max tolerated concentration for individual elements in 7 unique grade families; these elements are considered "Tramp"
- » The DELTA comes preloaded with a tramp library based on industry standards
- » This allows the analyzer to ID and report tramp material, and allows the user to simplify grade matching by not counting small, expected amounts of tramp elements against the grade match
- » Detect and quantify tramp residuals critical to selective corrosion investigations and failure analysis



Analysis results display demonstrating Nominal value (3% Al) and Tramp element (.09 % Fe) features.

The benefits are clear – analyze and ID your alloy components FASTER, with more CONFIDENCE, and with a more RUGGED and RELIABLE analyzer. Innov-X will be there to support you – our goal is to provide the best technology and support to keep you up and running.

Contact Olympus Innov-X or your local distributor for a free on-site demonstration of the DELTA and its innovative features.

OLYMPUS NDT INC. is ISO 9001 and 14001 certified.

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