

DELTA® Professional Handheld XRF Analyzer Specifications

The DELTA Professional with X-act Count™ technology is an outstanding value solution. It provides excellent performance in speed, LODs, and elemental range.

Housed in a rugged body designed for demanding environments, the DELTA Professional analyzer provides a good mix of durability and analytical performance with lower cost of ownership.

The DELTA Professional analyzer – Incorporating everything you need in a handheld XRF with an innovative, rugged design.



DELTA Professional

Specifications*

Weight:	1.5 kg (3.25 lbs) without battery
Dimensions:	260 × 240 × 90 mm (10.25 × 9.5 × 3.5 in.)
Excitation source:	4 W Ag, Rh, Au, or Ta anode (per application) X-ray tube
Detector:	Silicon drift detector
Environmental temperature range:	-10 °C to 50 °C (14 °F to 122 °F)
Analytical range:	Alloy and mining: Mg and up for Rh/Ag and Al and up for Ta/Au; Soil: P and higher
Processing electronics:	530 MHz CPU with integrated FPU with 128 MB RAM; Proprietary Olympus X-act Count digital pulse processor (DPP)
Smart electronics:	Barometer for atmosphere pressure correction of light elements' measurements
Power:	Rechargeable Li-ion battery; Hot-swap maintains analyzer power during battery change
Display:	32 bit color QVGA resolution, Blarview transmissive backlit touchscreen; 57 × 73 mm (2.25 × 2.9 in.)
Data storage:	1 GB microSD™ (stores ~75,000 readings)
Data transfer:	USB

Standard Accessories

- Waterproof Carrying Case
- Two (2) Li-ion Batteries
- Electronic User Manual and User Interface Guide and Printed Quick Start Guide
- Docking Station
- Mini USB Cable
- 316 Stainless Steel Calibration Check Reference Coin
- Ten (10) Spare Windows
- Integrated Wrist Strap
- DELTA PC Software
- Factory Authorized Training & Support

Features and Benefits

Powerful 4 W X-ray tube, 200 μ A current (max), optimized beam settings

Tight geometry for exceptional LODs and high analysis throughput

Large-area SDD and customized X-ray tube options for exceptional sensitivity and precision for more elements and materials

Automatic barometric pressure correction that adjusts calibration as needed for more accurate analysis of light element

Fast data acquisition for faster testing time

Floating point processor: Provides more calculations in less time and leverages more advanced calibration algorithms

Integrated wide area heat sinks throughout the analyzer's body for high-power use in extreme temperatures

Analysis indicator lights visible from 360° to help ensure safe use

Advanced colortouch LCD screen for clarity, brightness, responsiveness, and energy efficiency for indoor/outdoor use

DELTA® PC software for enhanced data analysis, calibration modeling, and optional closed beam workstation operation

USB interface port for high-speed downloads and seamless PC control

Ergonomic rubberized handle for enhanced grip

Docking station and hot swap batteries



The unique DELTA Docking Station frees you from having to power down the analyzer. The station charges the analyzer battery and a spare, and performs periodic calibration checks. DELTA analyzers can be operated 24/7 in the field with hot swap battery replacement.

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