

DELTA Premium Handheld XRF Analyzer Specifications

The DELTA Premium is the ideal handheld XRF analyzer for ultra quick, analytically demanding applications such as trace levels and light elements in low alloy steel, soil, mining, and metallurgical samples.

The DELTA Premium large area SDD and advanced 4W application optimized X-ray tube provide tremendous speed and superior light element analysis in air.

Incorporating everything you need in a handheld XRF with state-of-the-art innovations and a rugged design – the DELTA Line.



DELTA Premium

Specifications*

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| Weight: | 1.5 kg (3.25 lbs) without battery |
| Dimensions: | 260 × 240 × 90 mm (10.25 × 9.5 × 3.5 in.) |
| Excitation source: | 4W Rh, Au, or Ta anode (per application) X-ray tube |
| Detector: | Large-Area 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: | Accelerometer; 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, Blanview transmissive backlit touchscreen; 57 × 73 mm (2.25 × 2.9 in.) |
| Data storage: | 1 GB microSD (stores ~75,000 readings) |
| Data transfer: | USB, Bluetooth® |

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



DELTA Professional

The DELTA Professional with a 40kV tube and SDD detector is the best value solution from Olympus for handheld XRF analyzers. It provides superior performance in speed, LODs, and elemental range.



DELTA Premium

The DELTA Premium with advanced 40kV tube and large area SDD detector is best for ultra quick, analytically demanding applications, such as trace levels and light elements in low alloy steel, soil, mining, and metallurgical samples.

Some DELTA Premium models can be configured with a 50kV tube to optimize LODs for high-Z and challenging elements, such as Ag, Cd, Sn, Ba, Cr, Sb, Te, and Rare Earth Elements (REEs).



DELTA Classic Plus

The DELTA Classic Plus with a 40kV tube and Si-PIN detector is ideal for simple applications. It provides quick ID, screening, sorting, and elemental and metals analysis.

Features and Benefits

Powerful 4W 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

Patent-pending automatic barometric pressure correction that adjusts calibration as needed for more accurate analysis of light element

Lightning-fast data acquisition for faster testing time

Floating Point Processor: Provides more calculations in less time, and leverages more advanced calibration algorithms

Integrated Bluetooth® for data input and output available in most countries

Integrated wide area heat sinks throughout the DELTA 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

Accelerometer technology puts the unit into sleep mode to save energy when not in use; logs impacts for tool management

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. DELTAs can be operated 24/7 in the field with hot swap battery replacement.

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OLYMPUS

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