Fast, Accurate Material Identification

VANTA™ Handheld X-Ray Fluorescence Analyzer

Fast, Accurate Material Identification
Rugged and Always Ready

Perform in All Environments
Fully functional in temperatures ranging from -14 °F to 122 °F.
IP65 (C and L series) and IP64 (M series) rated for protection against dust and water intrusion.
Analyze hot samples up to 950 °F using the optional hot heel faceplate.

Durable
All Vanta™ models are built to pass a 4-foot drop test (MIL-STD-810G) to help withstand typical forces in field and manufacturing environments.

Detector Protection
Automatic eyelid shutter helps prevent costly detector damage (C and M series models).
L series analyzers are equipped with a thick Kapton® window and feature tool-less window change.

Olympus Scientific Cloud
Enables real-time data backups, downloads, and screen sharing.
Instantly update software and firmware.
Fleet management capabilities help you and your team view and access instrument health statistics and GPS location.

Simple Interface
Intuitive user interface simplifies alloy identification.
Smartphone-like gesture operation: swipe, flick, and tap.
Customize the home screen buttons for frequently used operations.

Easy Data Management
Instantly export analysis results through optional wireless connectivity, the Olympus Scientific Cloud, or a USB flash drive.
Customize data labels and exports with Vanta™ PC software.

Olympus stands behind every rugged, reliable Vanta analyzer with a standard 3-year warranty.
The Vanta Series

Olympus manufactures Vanta analyzers to suit a variety of applications depending on your needs. Each Vanta analyzer is engineered for durability and analytical superiority and comes with a 3-year warranty.

M Series

Our most powerful Vanta analyzers feature exceptional performance. Each M Series analyzer comes equipped a large-area silicon drift detector, your choice of either a rhodium (Rh) or a tungsten (W) anode, and a 50 kV X-ray tube.

C Series

The C Series combine value with superior speed, limits of detection (LODs), and elemental range. Each C Series analyzer is equipped with a silicon drift detector and your choice of an Rh or W anode 40 kV X-ray tube, or a silver (Ag) anode at 50 kV X-ray tube.

L Series

Get the ruggedness, ease of use, and data management features of Vanta analyzers in a cost-effective PIN instrument. The L Series is designed for maximum uptime and a lower cost of ownership for reliability in the field.

Vanta Specifications

Dimensions (W × H × D) | 8.3 cm × 28.9 cm × 24.2 cm (3.25 in. × 11.4 in. × 9.5 in.)
Weight | 1.70 kg (3.75 lb) with battery, 1.48 kg (3.25 lb) without battery
Excitation Source | 4-Watt X-ray tube with application optimized anode material (rhodium (Rh), silver (Ag), or tungsten (W))
M Series (Rh & W) and C Series (Ag): 8–50 kV
C Series (Rh & W): 8–40 kV
L Series (W): 35 kV
Primary Beam Filtration | 8-position auto selected filter per beam per mode; optional collimation to 3-mm diameter beam spot
Detector | M Series: Large area silicon drift detector
C Series: Silicon drift detector
L Series: Silicon PIN detector
Power | Removable 14.4 V Li-Ion battery with hot-swap capability or 18 V power transformer 100—240 VAC, 50–60 Hz, 70 W max
Display | 800 × 480 (WVGA) LCD with capacitive touch screen supporting gesture control
Operating Environment | Temperature: -10 °C to 50 °C (continuous duty cycle with optional fan)
Humidity: 10% to 90% relative humidity non-condensing
Drop Test | Military Standard 810-G 4-foot (1.3 M) drop test
IP Rating and Detector Shutter | M Series IP64: dust tight and protected against water splashing from all directions
C and L Series IP65: dust tight and protected against water jets from all directions
Solid detector shutter to help prevent detector damage
Pressure Correction | Built-in barometer for automatic altitude and air density correction
GPS | Embedded GPS / GLONASS receiver
Operating System | Linux®
Data Storage | Cloud enabled with user fleet manager capability
microSD™ slot with included 1 GB Industrial SD card
USB | (2) USB 2.0 type A host ports for accessories such as wireless LAN, Bluetooth®, and USB flash drives.
(1) USB 2.0 type mini-B port for connection to computer.
WiFi | Supports 802.11 b/g/n (2.4 GHz) via optional USB adaptor
Bluetooth | Supports Bluetooth® via optional USB adaptor
Aiming Camera | Full VGA CMOS camera
Panoramic Camera | 5-megapixel CMOS camera with autofocus lens
Warranty | Three-year warranty
Accessories | Field Stand, Soil Foot, Holster, Work Station, Weld Mask, Hot Heel, and Probe Shield

www.olympus-ims.com