
VANTA Specifications

VANTA

Rugged. Revolutionary. Productive.



Vanta™ handheld XRF analyzers are rugged and built for analytically demanding applications in the harshest environments. Vanta analyzers are IP65* rated for protection against dust and water, are drop tested, and built to withstand a temperature range of -10 °C to 50 °C (14 °F to 122 °F).**

Vanta analyzers provide fast, accurate elemental analysis. Each device features Olympus' Axon Technology™, a revolution in XRF signal processing that provides accurate, repeatable results for greater productivity and a fast return on investment. Vanta analyzers feature an intuitive interface and application-specific software so new users can work with the device with minimal training. Data is easily exported wirelessly or via USB.

The Vanta Series

No matter the model, each Vanta™ analyzer is engineered for durability and analytical superiority and comes with a three-year warranty. Olympus manufactures Vanta analyzers to suit a variety of applications depending on your needs.

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 (2 Watts)
Primary Beam Filtration	8-position auto selected filter per beam per mode; optional collimation to 3 mm diameter beam spot VLW: Fixed aluminum filter and no internal collimation
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 M and C Series: 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® Cloud enabled with user fleet manager capability
Data Storage	microSD™ slot with removable 1 GB Industrial SD card included
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 (Optional)
Panoramic Camera	5-megapixel CMOS camera with autofocus lens (Optional)
Warranty	Three-year warranty
Optional Accessories	Field Stand, Soil Foot, Holster, Work Station, Weld Mask, Hot Heel, and Probe Shield and VLW Collimation Mask

OLYMPUS SCIENTIFIC SOLUTIONS AMERICAS
is certified to ISO 9001, ISO 14001, and OHSAS 18001.

*M Series analyzers are IP64 rated.

** With optional fan. The fan assembly is IP54 rated. Operates continuously at 33 °C without the fan.

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OLYMPUS®

OLYMPUS CORPORATION OF THE AMERICAS

48 Woerd Avenue, Waltham, MA 02453, USA, Tel.: (1) 781-419-3900
110 Magellan Circle, Webster TX, 77598, USA, Tel.: (1) 281-922-9300

For enquiries - contact
www.olympus-ims.com/contact-us

