

OLYMPUS[®]



VANTA[™] Handheld X-Ray Fluorescence Analyzer
Fast, Accurate Material Identification

Rugged and Always Ready



Performs in All Environments

Fully functional in temperatures ranging from -14 °F to 122 °F* (-25.5 °C to 50 °C).

IP55 (C and L series) and IP54 (M series and Vanta Element) rated for protection against dust and water intrusion.

Analyze hot samples up to 950 °F (510 °C) 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.





El	%	+/-	316
Fe	68.141	0.051	61.28 - 72.00
Cr	16.669	0.033	16.00 - 18.00
Ni	9.903	0.036	10.00 - 14.00
Mo	2.031	0.006	2.00 - 2.90
Mn	1.518	0.022	0.00 - 2.00
Cu	0.745	0.011	0.00 - 0.75



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™ X-ray fluorescence (XRF) 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 with a large-area silicon drift detector, your choice of either a rhodium (Rh) or 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 a 40 kV X-ray tube with a rhodium (Rh) or tungsten (W) anode, or a 50 kV X-ray tube with a silver anode.

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 Element

Featuring advanced Axon Technology™ processing, the rugged Vanta Element handheld analyzer is an affordable alloy ID solution, providing material and grade identification in seconds. Leverage its connectivity options to streamline your quality control process.

Vanta Specifications

Dimensions (W x H x D)	8.3 cm x 28.9 cm x 24.2 cm (3.25 in. x 11.4 in. x 9.5 in.)
Weight	M series, C series, and L series: 1.70 kg (3.75 lb) with battery, 1.48 kg (3.24 lb) without battery Element: 1.54 kg (3.39 lb) with battery, 1.32 kg (2.91 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) and Element (W): 35 kV (2 watts)
Primary Beam Filtration	M and C series: 8-position autoselected filter per beam per mode; optional collimation to 3 mm diameter beam spot L series and Element: Fixed aluminum filter and no internal collimation
Detector	M series: Large-area silicon drift detector C series: Silicon drift detector L series and Element: Silicon PIN detector
Power	Removable 14.4 V Li-ion battery with hot-swap capability (M, C, and L series only) or 18 V power transformer 100–240 VAC, 50–60 Hz, 70 W max
Display	800 x 480 (WVGA) LCD with capacitive touch screen supporting gesture control
Operating Environment	Temperature range for the M, C, and L series: –10 °C to 50 °C (14 °F to 122 °F), (continuous duty cycle with optional fan); Temperature range for the Element: –10 °C to 45 °C (14 °F to 113 °F) 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, and Element IP54: dust protected and protected against water splashing from all directions C and L series IP55: dust protected and protected against water jets from all directions M and C series: Solid detector shutter to help prevent detector damage
Pressure Correction	M and C series: Built-in barometer for automatic altitude and air density correction
GPS	M, C, and L series: 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.
Wireless LAN	Supports 802.11 b/g/n (2.4 GHz) cable optional USB adaptor
Bluetooth	Supports Bluetooth® with an optional USB adaptor
Aiming Camera	Full VGA CMOS camera (Optional on M, C, and L series)
Panoramic Camera	5-megapixel CMOS camera with autofocus lens (Optional on M, C, and L series)
Warranty	M, C, and L series: Three-year warranty; Element: One-year warranty
Selected Optional Accessories	M, C, and L series: Field Stand, Soil Foot, Holster, Work Station, Weld Mask, Hot Heel, Probe Shield, and VLW Collimation Mask (L series only) Element: Field Stand, Soil Foot, and Holster

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

* With optional fan. Operates continuously at 33 °C without the fan.

**Excludes Vanta Element. Vanta Element has a 1-year warranty.

All specifications are subject to change without notice.

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