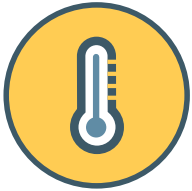


**OLYMPUS**<sup>®</sup>



**VANTA**<sup>™</sup> 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.







## 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 × H × D)	8.3 cm × 28.9 cm × 24.2 cm (3.25 in. × 11.4 in. × 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 × 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.

Olympus, the Olympus logo, and Vanta, and Axon Technology are trademarks of Olympus Corporation or its subsidiaries.

Kapton is a trademark of E.I. du Pont de Nemours and Company. microSD is a trademark of SD-3C, LLC. Linux is a registered trademark of the Linux Foundation in the United States and/or other countries. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Olympus Corporation is under license. Copyright © 2019 by Olympus.

[www.olympus-ims.com](http://www.olympus-ims.com)

**OLYMPUS®**

**OLYMPUS SCIENTIFIC SOLUTIONS AMERICAS CORP.**

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 inquiries - contact  
[www.olympus-ims.com/contact-us](http://www.olympus-ims.com/contact-us)

Vanta\_4Pagers\_201911 • Printed in the USA