

# 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<br>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))<br>M series (Rh & W) and C series (Ag): 8–50 kV<br>C series (Rh & W): 8–40 kV<br>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<br>L series and Element: Fixed aluminum filter and no internal collimation   |
| Detector                       | M series: Large-area silicon drift detector<br>C series: Silicon drift detector<br>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);<br>Temperature range for the Element: –10 °C to 45 °C (14 °F to 113 °F)<br>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<br>C and L series IP55: dust protected and protected against water jets from all directions<br>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®<br>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.<br>(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)<br>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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