

5 Features Your Cost-Effective XRF Analyzer Should have



Whether you're sorting alloys and metals in a scrap yard or reviewing incoming materials for quality control, a handheld X-ray fluorescence (XRF) analyzer is an essential tool. XRF technology can quickly and nondestructively identify alloy grades and the elemental composition of metals. There are many factors and features to consider when selecting a cost-effective handheld XRF analyzer. Here are 5 essential features to look for.

1. Speed

Fast results mean a fast ROI. Our [Vanta™ Element](#) handheld XRF analyzer is cost-effective, but still powerful enough to identify alloy grades in as little as 1–2 seconds.

2. Ruggedness

The most demanding applications require robust instruments that can withstand the rigors of an industrial environment. Vanta Element analyzers are IP54 rated for resistance to dust and moisture and are built to pass a 4-foot (1.2 m) drop test (MIL-STD-810G) to help keep you working in case of an accidental drop or impact. If you work in hot or cold environments, you can count on the Vanta Element analyzer to perform continuously in temperatures from $-10\text{ }^{\circ}\text{C}$ to $45\text{ }^{\circ}\text{C}$ ($14\text{ }^{\circ}\text{F}$ to $113\text{ }^{\circ}\text{F}$).

3. Connectivity

The Vanta Element analyzer's optional wireless connectivity enables users to access the Olympus Scientific Cloud™ for wireless data sharing and convenient fleet management tools, the Olympus mobile app, or your network. The analyzer also has a 1 GB microSD™ card for storing results and two USB ports for easy data export.

4. Smart Software

The smartphone-like interface is easy to use, enabling you to operate it with minimal training required. The clear results, including the grade ID and specification comparison and the elemental composition, are displayed directly on the instrument's screen. The software is customizable, so you can set it up to provide on-screen directions for pass/fail results or specific instructions.

5. Durability

Protecting your asset is important, especially when testing turnings and other sharp objects. It helps to have an extra layer of protection. The Vanta Element analyzer's stainless-steel faceplate is paired with a thick (50 μm) Kapton® window that can be easily attached and removed for toolless window changes in the field. The analyzer also comes with a standard one-year warranty.

From simple alloy sorting to more complex applications, the Vanta series offers models for a variety of applications at a variety of price points.