



# PortaMetrics™ Gen 2

## Improve the efficiency, safety, and accuracy of your blast assessment.

Built upon over the eight years of success of the original device, the PortaMetrics Gen 2 provides a more powerful and accurate solution for portable fragmentation analysis. PortaMetrics Gen 2 uses artificial intelligence and 3D imaging to provide accurate data without the need for a reference scaling object. The device can be used to verify blasting results or provide coverage where other particle size analysis systems are not installed. Particle size analysis is available on the device and in the cloud. PortaMetrics can be used in both open pit and underground operations with adequate lighting.

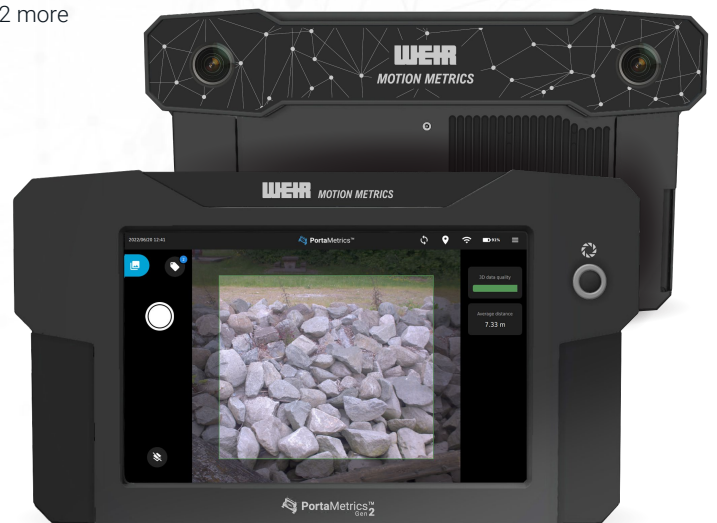
PortaMetrics Gen 2 has improved upon the accuracy of its predecessor and is equipped with enhanced capabilities such as expanded storage and longer battery life. Higher resistance to dusty conditions and a larger display makes PortaMetrics Gen 2 more robust and easier to use.

## Specifications

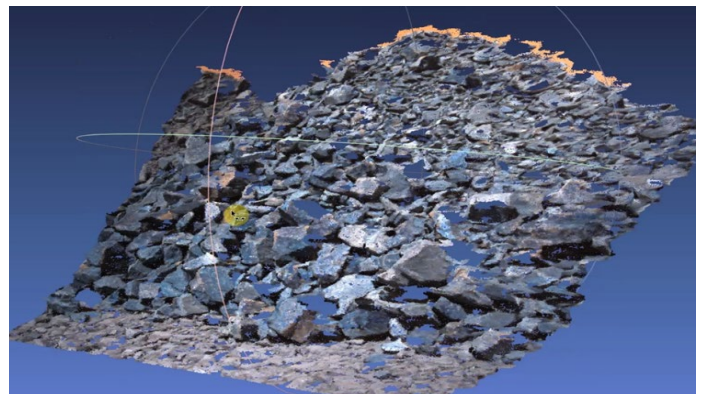
|  |                    |
|--|--------------------|
| Minimum particle size detected at 5 m  | <b>4cm (1.6")</b>  |
| Minimum particle size detected at 10 m | <b>6cm (2.4")</b>  |
| Operating distance range               | <b>2.5m - 30m</b>  |
| Scaling objects required               | <b>None</b>        |
| Ingress protection                     | <b>IP64</b>        |
| Battery life                           | <b>Up to 3 hrs</b> |
| Storage                                | <b>7,000 logs</b>  |
| Touchscreen display size               | <b>10"</b>         |
| Weight                                 | <b>3.6 kg</b>      |

*"PortaMetrics makes it easier to optimize our blasting parameters and reduce explosives costs throughout the operation."*

**Horia Moisa**  
Superintendent Drill and Blast,  
AngloGold Ashanti, Australia



Particle Size Analysis



3D Imaging



# PortaMetrics™ Gen 2

How PortaMetrics helped a Canadian mine save **\$740K** on drill and blast costs by achieving a 350,000 kilogram reduction in explosives usage

A copper and gold mine in Western Canada used PortaMetrics to analyze and optimize blasting. Using particle size data collected with the device, the mine lowered its powder factor without negatively impacting fragmentation results. The mine increased its drilling capacity and drilled inventory while decreasing its drilled costs and explosives usage by using the lower powder factor.

Over the course of the study period, the total hypothetical explosives savings at the mine were an estimated 350,000 kilograms, equivalent to approximately **\$740K**. The mine achieved a total drilling time saving of **~210 hours (18 shifts of drilling)**. About 350 fewer holes and 5700 fewer meters were drilled. The average blast volume per shift at a lower powder factor was **2.1 times more efficient.**

