



Comparability guide:

Bugcount® One ATP Analyzer and PhotonMaster



This document demonstrates the performance comparability between Luminultra's PhotonMaster luminometer and the Bugcount® One ATP Analyzer.

Customers transitioning from the PhotonMaster to the Bugcount® One ATP Analyzer can expect **equivalent analytical performance**, allowing for direct comparison of results between instruments. Historical data generated with PhotonMaster remains valid and comparable when using the Bugcount® platform.

The Bugcount® analyzer leverages the same best-in-class photomultiplier sensor while introducing significant improvements to the user experience, device interface and durability. This continuity in detection technology ensures that customers can maintain consistent measurement performance, sensitivity and data comparability while benefiting from the enhanced usability of the new platform.

Methodology

Extensive internal testing was conducted to compare instrument responses across the operational range using UltraCheck calibration standards.

Results demonstrate that the Bugcount® One ATP Analyzer shows a 1:1 relationship with the PhotonMaster across all tested concentration levels.

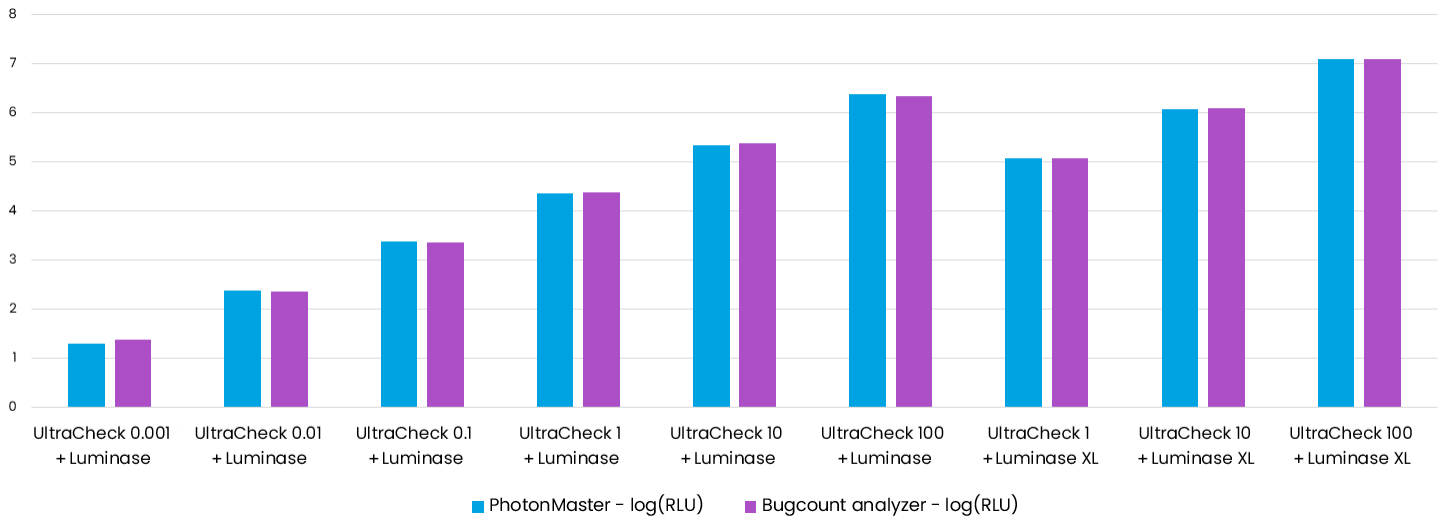
Key findings include:

- Equivalent response across the linear dynamic range (RLU) of the PhotonMaster
- Linear correlation between instruments
- Comparable sensitivity and dynamic range
- Consistent repeatability between platforms

This confirms that the Bugcount® One ATP Analyzer produces analytically equivalent measurements to the PhotonMaster.



Side-by-side comparison of PhotonMaster and Bugcount analyzer across concentration levels



PhotonMaster - Bugcount® analyzer instrument correlation

