

Multiskan® EX

Multiskan EX is a basic microplate photometer for end point and kinetic assays, especially adapted for EIA applications. Multiskan EX has now been extended with the powerful Ascent Software and 3 filters free of charge.

25 years of Multiskan

Multiskan was the world's first microplate reader, developed to meet the needs of laboratories around the world. 25 years later, after continuous development, Multiskan is still the world's most used microplate photometer, thanks to its ease of use and reliability.

Exceptional reliability and extended 3-year warranty

With over 25,000 units serving laboratories worldwide, Multiskan has earned a global reputation as the most reliable microplate photometer available. For this reason, Thermo offers a 3-year extended warranty for Multiskan EX.

Proven optical system

The optical performance of Multiskan EX meets the requirements of current EIA technology, offering a linear measurement range of up to 2.0 absorbance units. Any other colorimetric assays that require detection in the visible range, from 400 nm to 750 nm, can be determined with the Multiskan EX. The proven optical system of Multiskan ensures accurate results and long-lasting reliability. Maintenance requirements are minimal.

Rapid measurement

Multiskan takes just 5 seconds to read a whole 96-well plate, giving a surprisingly low-noise reading.

Ascent Software free of charge

Ascent Software is now supplied free of charge with the purchase of the instrument. Ascent Software broadens Multiskan EX's range of applications and data handling ability. Please read more about Ascent Software on pages 24–26.

Multiskan EX internal software

The flexible cut-off calculations and curve fit algorithms of the internal software give Multiskan EX flexibility for data manipulation in various diagnostic applications. Additionally, you can save up to 64 assay protocols in the internal memory and recall them with "quick buttons".





Performance verification

The on-board self-diagnostic routines assure proper instrument operation. To enable GLP verification of instrument performance, a Multiskan Verification Plate is available for the Multiskan EX (see page 27).

Technical Specifications

Optical specifications

Spectral range	400 – 750 nm, 3 filters included free of charge: 405 nm, 450 nm, 620 nm. The filter wheel can hold a maximum of eight filters.*
Linearity	0 – 2.0 Abs, $\pm 2\%$ at 405nm
Read-out range	0 – 3.5 Abs
Accuracy	$\pm 2\%$ or 0.007 Abs, typical value $\pm 1\%$ (0 – 2.0 Abs) at 405 nm
Precision	CV < 0,5% (0,3 – 1,5 Abs), CV < 1.0% (1,5 – 2 Abs) at 405 nm
Resolution	0.001 Abs

General Specifications

Filters	Up to 8 filters can be installed into the filter wheel
Measurement time	5 s/96-well plate
Shaking	Linear shaking, 3 speeds
Detector	Semiconductor photodiode
Interface connections	Serial RS-232 interface Parallel interface

* Additional filters should be specified when ordering.

→ Ordering information on pages 54–55.

The powerful Ascent Software extends Multiskan EX with comprehensive data handling.

