Thermo Scientific

Multiskan GO microplate spectrophotometer

Freedom for any photometric research application

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Thermo Scientific Multiskan GO UV/Vis Microplate and Cuvette Spectrophotometer – freedom for any photometric research application

The Thermo Scientific™ Multiskan™ GO microplate spectrophotometer is a convenient tool for virtually all photometric research applications, including DNA, RNA and protein analysis. Get results quickly and easily, with the flexibility you need for a variety of applications.

You can control Multiskan GO with straightforward internal software for quick and simple measurements or easily set up even the most demanding applications with the truly intuitive Thermo Scientific™ SkanIt™ software for PC control. Both options offer a selection of multiple languages for operation.

Multiskan GO offers

- Freely selectable wavelengths from 200 - 1000 nm
- Reads microplates, cuvettes and Thermo Scientific™ µDrop™ Plate for microliter-scale measurements
- Fast plate measurements - read the full spectrum of a sample in less than 10 seconds
- Extensive self-diagnostics for reliable performance
- A unique power save function for reduced energy consumption
- Intuitive internal software lets you run quick measurements straight from the instrument
- Comes with powerful yet easy-to-use Thermo Scientific SkanIt software for more demanding assays
- A selection of multiple operation languages

Thermo Scientific Multiskan GO with cuvette

Flexibility and performance for various photometric applications

Multiskan GO microplate spectrophotometer supports endpoint, kinetic and spectral scanning assays. It reads 96-and 384-well microplates with and without lids, and all major cuvette types. Additionally, it is compatible with the µDrop Plate that is designed for quick and easy measurement of low sample volumes down to 2 µL. The reading speed of Multiskan GO is exceptionally fast; all wells in a 96-well plate are measured in less than 6 seconds, and a full 384 well plate is measured in just 10 seconds.

A broad wavelength range with the UV area, pathlength correction as well as fast spectral scanning makes it an ideal tool for any photometric research application, including DNA, RNA and protein analysis.

Both the microplate chamber and cuvette holder are equipped with temperature control up to 45°C to enable temperature sensitive applications such as enzyme kinetics or cellular assays. Shaking speed can be selected to ensure that the samples in the microplate stay homogeneous.

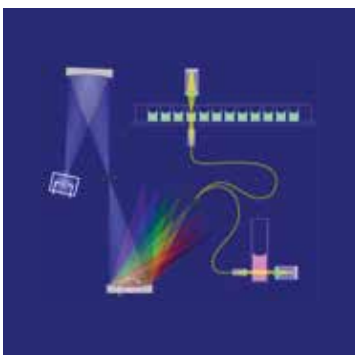
Easy to swap assays with free wavelength selection

Wavelength selection in Multiskan GO is done by using an advanced monochromator system. Any wavelength between 200 and 1000 nm can be selected at any time. Using the spectral scanning feature, the whole spectrum of a sample can be scanned in 1 nm increments to allow identification of the optimal measurement wavelength for a new assay. The complete spectrum of a sample can be scanned in just 10 seconds. Additionally, the narrow measurement bandwidth ensures excellent spectral resolution.

Stand-alone use for quick measurements

The Multiskan GO can be controlled without a computer using the visual internal software, making it convenient for quick and simple measurements of both microplates and cuvettes. Ready-made sessions for measuring DNA and RNA concentrations and easy-to-use formulae for ratiometric or background correction measurements are available for cuvettes in the internal software. Any measurement data can easily be saved on a USB memory stick for transfer to a computer for further processing.

The internal software can be operated in English, German, French, Spanish, Portuguese, Russian, Chinese and Japanese, all according to your language preference.



The built-in monochromator makes it easy to select any measurement wavelength

Visual and comprehensive assay setup with SkanIt software

The logical and truly user-friendly interface of the SkanIt software makes the instrument control and assay setup easy – even for advanced applications. The SkanIt software offers a comprehensive selection of built-in calculations, including blank subtraction, standard curve, classification, quality control, kinetic and spectral analysis to make data reduction very straightforward.

Result data can be exported to Excel with a single mouse click. Other file formats for exporting are also available.

SkanIt software is available in two editions: Research Edition for life science research and the Drug Discovery Edition, which offers features for compliancy with the FDA 21 CFR Part 11.

The same language selection available on the internal software is also available for SkanIt software. Additionally, SkanIt software is available in Italian.

High quality data and consistent performance

The optical system in Multiskan GO has been engineered to ensure first-rate performance and high quality results. The design incorporates a dual beam optical system which includes an internal reference channel ensuring consistent results during any measurement condition.

Extensive automatic self diagnostics at instrument start-up verifies all major instrument functionalities, such as measurement positioning, lamp and monocromator, as well as measurement electronics operation. In addition, continuous runtime control of optical and mechanical functions guarantee stable day-to-day and year-on-year performance and reliability. Multiskan GO is designed so you can trust the integrity of your results, always.

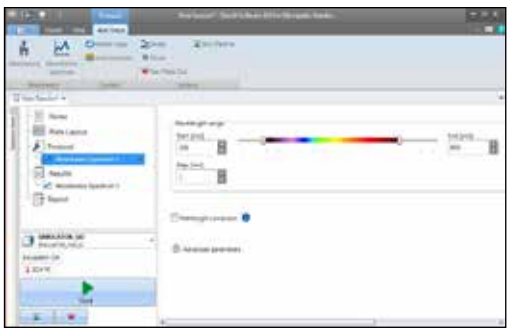
Energy-saving for a better environment

Multiskan GO features a unique power save functionality that is automatically activated when the instrument is on but not in use. By pressing any instrument key or by using the SkanIt software, the power is instantly resumed and Multiskan GO is ready for use. When the power save is activated, it reduces the energy consumption of the instrument over 70%.

Specially designed for automation

Increase assay throughput by integrating the Multiskan GO with stackers and automated systems. The Multiskan GO's plate carrier is specially-designed for convenient robotic arm access to allow microplate gripping in portrait and landscape configurations. The SkanIt software automation interface enables easy integration with automated systems.

Easy to use internal software for quick plate or cuvette measurements



Visual and intuitive SkanIt software for flexible instrument control.

Typical applications

- DNA or RNA quantitation and purity
- Protein assays
- Enzyme assays
- Kinetic assays
- Immunoassays
- Cell proliferation and cytotoxicity assays
- Apoptosis assays
- Reporter gene assays
- GPCR assays

USB port for easy data transfer

Multiskan GO accepts versatile cuvettes

Technical Specifications

Feature		
Wavelength selection	Monochromator	
Light source	Xenon flash lamp	
Wavelength range	200 -1000 nm with 1 nm steps	
Read-out range	Up to 4 Abs	
Bandwidth	< 2.5 nm	
	Plate	**Cuvette**
Linearity @ 450 nm	0 - 2.5 Abs, 2% (96-well plate)	0 - 2.5 Abs, 2% (beam window ≥ 2 mm)
Accuracy @ 450 nm	1.0% + 0.003 Abs (0 - 2.0 Abs) 2.0% (2.0 - 2.5 Abs)	1.0% + 0.003 Abs (0 - 2.0 Abs) 2.0% (2.0 - 2.5 Abs)
Precision @ 450 nm	SD < 0.003 Abs or CV < 0.5% (Precision mode) SD < 0.003 Abs or CV < 1.0% (Fast mode)	SD < 0.003 Abs or CV < 0.5%
Plates / Cuvettes	96- and 384-well plates	12.5 (W) x 12.5 (D) x 40-58 (H) mm
Measurement speed (from A1 back to A1)	6 s with 96-well plate 10 s with 384-well plate	-
Shaking	Linear	-
Spectral scanning speed	10 s from 200 to 1000 nm with 1 nm steps	
Incubation range	From ambient + 2°C to 45°C	
User interfaces	Stand-alone use: 4.5-inch color display and keypad PC control: SkanIt software	
USB connections	PC Memory device port for data export External printer (HP PCL5 compatible)	
Mains input	100 - 240 V (50/60 Hz)	
Max power consumption	< 110 W	
Power save consumption	< 2.5 W	
Dimensions (H x W x D)	260 x 285 x 430 mm 10.2 x 11.2 x 16.9 in.	
Weight	10.8 kg [23.8 lbs.]	
PC requirements for SkanIt Software		
Minimum system requirements	Dual Core processor, 2 GHz or faster, 4 GB RAM, 14 GB free disk space, USB port, CD-ROM drive, SXGA monitor with 1280 x 1024 resolution	
Operating system	Microsoft® Windows® 7 with Service Pack 1, Microsoft Windows 8.1 (64-bit operating system recommended)	

Ordering Information

Catalog Number	Description
51119200	Multiskan GO without Cuvette 100 - 240 V, 50/60 Hz
51119300	Multiskan GO with Cuvette 100 - 240 V, 50/60 Hz

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