



## Thermo Scientific Multiskan GO

UV/Vis microplate and cuvette spectrophotometer –  
Freedom for any photometric research application

# 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 handy tool for virtually all photometric research applications. Select any measurement wavelength from low UV to visible with just a few keyboard clicks to measure both cuvettes and microplates, all according to your assay and throughput requirements.

You can control Multiskan® GO as stand-alone 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 for the demands of various assays
- Both microplate and cuvette reading for any throughput requirements
- Very fast plate measurements and a full spectrum of a sample in less than 10 seconds
- High quality data guaranteed by extensive self diagnostics
- A unique power save function for reduced energy consumption
- Visual internal software on a large color screen for quick measurements
- Easy and logical assay setup for demanding assays with the powerful SkanIt® Software
- A selection of eight different operation languages

## 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. 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 of only two nanometers ensures excellent spectral resolution.

## Stand-alone use for quick measurements

The Multiskan GO can be controlled without a computer using the visual internal software and its large color display making it convenient for quick and simple measurements of both microplates and cuvettes. Ready-made sessions for measuring DNA and RNA concentrations



Thermo Scientific Multiskan GO with cuvette port



Thermo Scientific Multiskan GO without cuvette port

and easy-to-use formulae for radiometric 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.

### 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 inbuilt calculations, including quantitative curve fit, qualitative classification, kinetic calculations, spectral reduction and parallel line analysis<sup>\*)</sup> (PLA) to make data reduction very straightforward.

In addition, any measurement or calculated data in the SkanIt Software can be automatically exported to Excel with just one mouse click.

The same language selection as for the internal software is available also for the SkanIt Software. It simply speaks your language.

### 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 monochromator, 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.

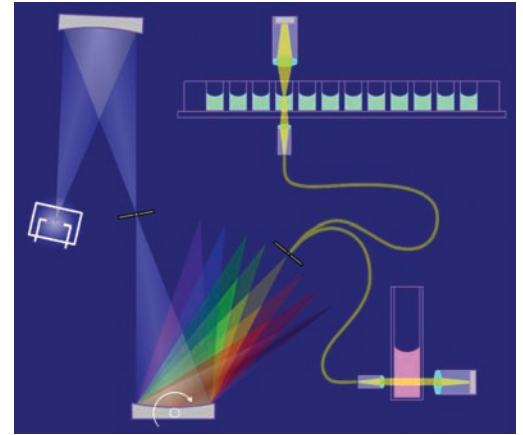
### Energy-saving for a better environment

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.

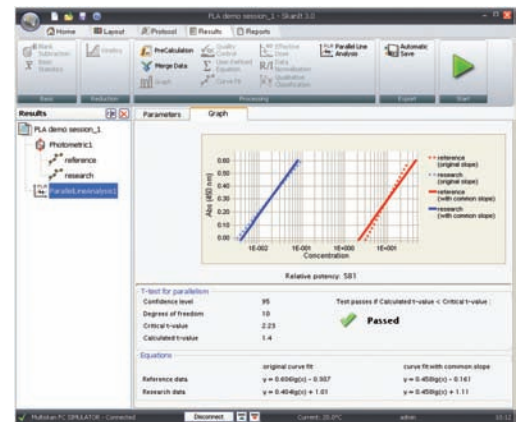
<sup>\*)</sup> In SkanIt Software, the calculation is performed in compliance with the European Pharmacopoeia guidelines.



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



Easy to use internal software for quick plate or cuvette measurements



Visual and logical SkanIt Software with eight language versions



USB port for easy data transfer



Multiskan GO accepts versatile cuvettes

### 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

## Preliminary Technical Specifications

<b>Feature</b>		
<b>Wavelength selection</b>	Monochromator	
<b>Light source</b>	Xenon flash lamp	
<b>Wavelength range</b>	200 -1000 nm with 1 nm steps	
<b>Read-out range</b>	Up to 4 Abs	
<b>Bandwidth</b>	2 nm	
	<b>Plate</b>	<b>Cuvette</b>
<b>Linearity @ 450nm</b>	0 - 2.5 Abs, $\pm$ 2% (96-well plate)	0 - 2.5 Abs, $\pm$ 2%
<b>Accuracy @ 450nm</b>	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)
<b>Precision @ 450nm</b>	CV < 1.0%	CV < 1.0%
<b>Plate/ Cuvette types</b>	96- and 384-well plates	Standard, micro and ultramicro cuvettes, TrayCell
<b>Measurement speed</b> (from A1 back to A1)	6 s with 96-well plate 10 s with 384-well plate	-
<b>Shaking</b>	Linear	-
<b>Spectral scanning speed</b>	10 s from 200 to 1000 nm with 1 nm steps	
<b>Incubation</b>	From ambient + 4°C to 45°C	
<b>Internal user interface</b>	4.5" - color display USB memory stick position for data export USB port for external printer (HP PCL5 compatible)	
<b>PC control</b>	Skant Software using USB connection	
<b>Mains input</b>	100 - 240 V (50/60 Hz)	
<b>Max power consumption</b>	90 W	
<b>Power save consumption</b>	< 5 W	
<b>Dimensions (H x W x D)</b>	260 x 285 x 430 mm 10.2 x 11.2 x 16.9 in.	
<b>Weight</b>	10.8 kg [23.8 lbs.]	
<b>PC requirements for Skant Software</b>		
<b>Minimum system requirements</b>	IBM PC compatible computer with Pentium 4, AMD Athlon XP or a faster processor. 1 GB RAM, 5 GB free hard disk space, USB, CD-ROM drive, mouse or equivalent, XVGA monitor with 1024 x 768 resolution	
<b>Operating system</b>	Windows XP Professional with service pack 3, Windows Vista 32 or 64 bit Business edition or Windows 7.	
<b>Ordering Information</b>		
<b>Catalog Number</b>	<b>Description</b>	
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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