

Thermo Scientific

Multiskan FC Microplate Photometer

User convenience

in photometric applications

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Thermo Scientific™ Multiskan™ FC – Filter-based Microplate Photometer for Research and Routine Applications

The Thermo Scientific Multiskan FC microplate photometer is a reliable and robust instrument for a wide variety of research and routine applications. It reads both 96- and 384-well plates, and is equipped with shaking and incubation capabilities for temperature critical assays. It can be used as a stand alone instrument or under PC control with our intuitive Thermo Scientific™ SkanIt™ software.

Designed with over 35 years experience in microplate photometry, the Multiskan FC combines the world-renowned quality of the Multiskan product line with a large color screen, visual internal software with 'quick keys' and multiple language options to ensure excellent usability.

Multiskan FC Offers You:

- A broad wavelength range of 340–850 nm for a wide variety of research and routine applications
- Fast and accurate measurement of both 96- and 384-well plates for various throughput requirements
- Shaking and incubation up to 50°C for temperature critical assays
- Ease of use through the large color screen, visual internal software and a variety of language versions
- Visual and logical SkanIt software for comprehensive instrument control and data handling
- Proven performance and reliable day-to-day results through patented optical design and in-built self diagnostics

Multiskan FC for a Wide Variety of Photometric Applications

The Multiskan FC is a reliable and robust microplate photometer designed to perform a wide variety of research and routine applications. It brings together over 35 years experience of the well-known Multiskan product brand, with features for enhanced usability. The Multiskan FC can be used as a stand-alone instrument or under PC control via our intuitive, user friendly Skanit software, helping simplify data acquisition and analysis.

The Multiskan FC has a 340–850 nm wavelength range, enabling a wide variety of applications from enzyme kinetic studies to Lowry assays. It is equipped with an eight-position filter wheel with three standard filters, 405 nm, 450 nm and 620 nm, pre-installed. A comprehensive range of easy-to install additional filters is available for order directly from your Thermo Fisher Scientific representative.

The Multiskan FC provides fast and accurate measurements enabling complete 96-well plate reading in less than seven seconds. Furthermore, the instrument is equipped with linear shaking as standard. A model is also available fitted with an incubator providing incubation temperatures up to 50°C and the capacity to read 384-well plates.

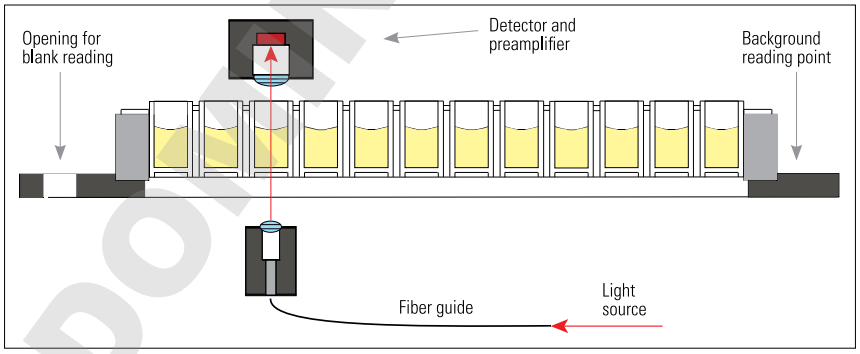
Reliable Results and Robust Performance

The proven and patented (US6111636) optical design of the Multiskan FC in combination with an autocalibration procedure that is performed during each measurement guarantees stable day-to-day and year-on-year performance and reliability.

During startup all major functions of the instrument, such as plate position, measurement stability, lamp functionality, filters, optical system, incubation and electronic operation, are checked to ensure reliable operation. In addition, the lamp is automatically switched off when not in use, which prolongs the lifetime of the lamp.

Ease of Use with Internal Software

The large color screen of the Multiskan FC, combined with the simple and logical internal software, ensures easy and intuitive assay setup. The 'quick keys' allow instant access to the most commonly used protocols in routine laboratories. In addition, the internal software contains both qualitative and quantitative calculations for single, dual and kinetic measurements providing flexible data handling capabilities.



Patented and proven optical design (US6111636)



Multiskan FC microplate photometer

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The internal software memory can store up to 99 assays, and results can be saved to a USB memory stick for easy transfer to a computer.

The internal software is available in English, German, French, Spanish, Portuguese, Russian, Chinese and Japanese.

Thermo Scientific SkanIt Software for Optimal Computer Control

The highly visual and logical user interface of SkanIt software facilitates instrument control and data handling for both research and routine applications. The graphical step list feature allows straightforward setup of any assay. Comprehensive inbuilt calculations, such as blank subtraction, standard curve, cut-off classification and kinetic calculations, as well as the versatile reporting tool, make data reduction with SkanIt software trouble-free. Basic single wavelength, dual wavelength and kinetic measurements can be performed quickly with only a few mouse clicks.

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

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

Robot Compatibility for High-throughput Environments

The plate carrier of the Multiskan FC is specially designed for convenient stacker and robot arm access, allowing microplate gripping in both portrait and landscape configurations. In addition, the SkanIt software automation interface enables easy integration with robotic software.

Multiskan Verification Plate for Instrument Verification

The Thermo Scientific™ Multiskan™ Verification Plate provides an excellent tool for verifying instrument performance and allows users to test the integrity and validity of their results. Moreover, the installation, operation and performance qualification (IQ/OQ/PQ) package provides a convenient way to document evidence, thus demonstrating the integrity of the instrument and its performance.

Meets European Directives

The Multiskan FC (IVD model) with the internal software conforms to the European IVD (In Vitro Medical Device) directive, making it ideal for qualitative and quantitative ELISA applications in clinical laboratories. Built using the highest quality components, the Multiskan FC conforms to the RoHS (Restriction of Hazardous Substances) directives.



The highly visual, intuitive user-interface of SkanIt software



Large color screen and visual internal software

Applications: Immunoassays (ELISA), protein assays, endotoxins, cytotoxicity and proliferation assays, enzyme assays and growth curves



USB port for easy data transfer



Robot-friendly plate carrier for both 96- and 384-well plates

DOWNLOAD DATASHEETS

Technical Specifications	
Light source	Quartz-halogen lamp 6 V/10 W
Wavelength range	340–850 nm
Filters	8-position filter wheel, the instrument is delivered with the following standard filters installed: 405 nm, 450 nm and 620 nm. Additional filters can be ordered separately.
Half-bandwidth of filters	3–9 nm
Read-out range	0–6 Abs
Linearity (405 nm)	0–3 Abs, ± 2%, 96-well plate 0–2.5 Abs, ± 2%, 384-well plate
Resolution	0.001 Abs
Accuracy (405 nm)	± 1% (0–3 Abs) or ± 0.003 Abs, which ever is greater
Precision (405 nm)	CV ≤ 0.2% (0.3–3 Abs)
Measurement speed	7 s, 96-well plate, fast mode 13 s, 96-well plate, normal mode 13 s, 384-well plate, fast mode 34 s, 384-well plate, normal mode
Optional incubator	Temperature range from ambient + 4°C up to 50°C
Shaking	Linear shaking with three modes: slow, medium and fast
Robotic compatibility	Yes
Display	High contrast color display (480 x 272 dots)
User interface	Internal software or PC control with SkanIt software
Internal memory (standalone)	At least up to 99 assay protocols and 100 test results, 96-well plate
External printer type	HP PCL5, PCL5e or PCL5c
Communication	USB for computer connection USB memory stick position for data export USB for external printer
Mains input	100–240 V (50/60 Hz)
Power consumption	Max. 100 VA, standby 8 VA
Overall dimensions (H x W x D)	220 x 290 x 400 mm 8.7 x 11.4 x 15.7 in.
Weight	8.5 kg (18.7 lbs.)
Conformity to regulations	2004/108/EC (Electromagnetic Compatibility Directive, EMC) 2006/95/EC (Low Voltage Directive) 2006/42/EC (Machinery Directive) FCC Part 15, Subpart B/Class B 2011/65/EU (RoHS Directive) 2012/19/EU (Waste of Electrical and Electronic Equipment) 98/79/EC (In Vitro Medical Device)*
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

Code	Instrument	Shaking	Incubation	96-well plates	384-well plates
51119000	Multiskan FC	x		x	
51119010*	Multiskan FC (IVD model)	x		x	
51119100	Multiskan FC with incubator	x	x	x	x

** Not available in North America*

thermoscientific.com/platereaders
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