

**Thermo Scientific
Multiskan® FC
Microplate Photometer**



**Filter-based microplate photometer for
research and routine applications**

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 as well as 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 30 years experience in microplate photometry, the Multiskan FC combines the world renowned quality of the Multiskan product line with a new 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 varying 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
- Designed with 30 years experience in microplate photometry

Multiskan FC for a wide variety of photometric applications

Multiskan FC is a reliable and robust microplate photometer designed to perform a wide variety of routine and research applications. It brings together 30 years experience of the well known Multiskan product brand, with new features for enhanced usability. The Multiskan FC can be used as a stand-alone instrument or under PC control via our unique and easy-to-use SkanIt Software.

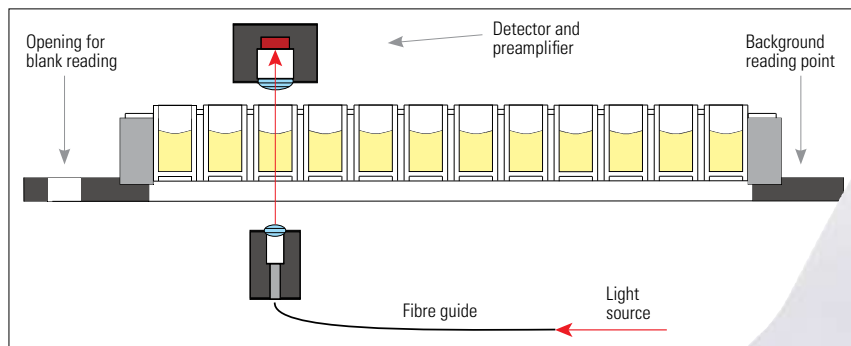
The Multiskan FC boasts a 340 – 850 nm wavelength range, enabling a wide variety of applications from enzyme kinetic studies through to Lowry assays. It is equipped with an eight position filter wheel with three standard filters 405, 450 and 620 nm pre-installed. A comprehensive range of easy to install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

The Multiskan FC offers fast and accurate measurements providing complete 96-well plate reading in less than 6 seconds. Furthermore, the instrument is equipped with linear shaking as standard. Moreover, a model is 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 optical design of the Multiskan FC in combination with the auto-calibration procedure that is performed during each measurement, guarantees stable day-to-day and year-on-year performance and reliability.

During start up 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. Additionally, the lamp is



Patented and proven optical design



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, fast mode 0 – 4 Abs, ± 2%, 96-well plate, normal mode 0 – 2.5 Abs, ± 2%, 384-well plate, fast mode 0 – 3 Abs, ± 2%, 384-well plate, normal mode
Resolution	0.001 Abs
Accuracy (405 nm)	± 1% (0.3 – 3 Abs), ± 2% (3 – 4 Abs)
Precision (405 nm)	CV ≤ 0.2% (0.3 – 3 Abs), CV ≤ 1.0% (3 – 4 Abs)
Measurement speed	6 s, 96-well plate, fast mode 12 s, 96-well plate, normal mode 11 s, 384-well plate, fast mode 33 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
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	ca. 210 mm (H) x 290 mm (W) x 400 mm (D)
Weight	Weight 8.5 kg [18.7 lbs.]
Safety specifications	Fulfills the following safety regulations: RoHS (Restriction of Hazardous Substances), CE mark, 2002/96/EC (Waste of Electrical and Electronic Equipment), FCC Part 15, Subpart B/Class B (July 2004)
PC requirements for SkanIt Software	
Minimum system requirements	IBM PC compatible computer with Pentium 4, AMD Athlon XP or 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
Operating system	Windows XP Professional with service pack 2 or Windows Vista 32 or 64 bit Business edition

Ordering information					
Code	Instrument	Shaking	Incubation	96-well plates	384-well plates
51119000	Multiskan FC	X		X	
51119100	Multiskan FC with incubator	X	X	X	X

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