

Fluoroskan and Fluoroskan FL microplate readers

Technical specification for the Fluoroskan and Fluoroskan FL microplate readers

	Fluoroskan	Fluoroskan FL
Fluorometry		
Excitation wavelength range	320–700 nm	320–700 nm
Emission wavelength range	360–800 nm	360–670 nm
Excitation filters	Up to 8 filters in the excitation filter wheel; 355 nm and 485 nm filters included as standard. Other filters available upon request.	Up to 8 filters in the excitation filter wheel; 355 nm and 485 nm filters included as standard. Other filters available upon request.
Emission filters	Up to 8 filters in the emission filter wheel; 460 nm and 538 nm filters included as standard. Other filters available upon request.	Up to 6 filters in the emission filter wheel. 460 nm and 538 nm filters included as standard. Other filters available upon request.
Sensitivity	2 fmol fluorescein/well in a black 96-well plate	2 fmol fluorescein/well in a black 96-well plate
Dynamic range	>6 decades	>6 decades
Luminometry		
Spectral range		270–670 nm
Sensitivity		40 amol ATP/well using flash reaction, white 384-well plate
Dynamic range		> 6 decades
Luminometric filters		Up to 4 filters in the filter wheel. All filters available upon request
Dispensing		
Number of dispensers	Up to 3	Up to 3
Dispensing volume	4–995 µL in 1 µL increments	4–995 µL in 1 µL increments
Dispensing speed	30 s, 96-well plate, 5 µL/well	30 s, 96-well plate, 5 µL/well
General features		
Plate types	6- to 384-well plates	6- to 384-well plates
Measurement speed	18 s, 96-well plate 60 s, 384-well plate	18 s, 96-well plate 60 s, 384-well plate
Wavelength selection	Filters	Filters
Light source	Quartz-halogen lamp	Quartz-halogen lamp
Detector	Photomultiplier tube	Photomultiplier tube
Incubator	From ambient + 3°C to 45°C, at ambient 25°C	From ambient + 3°C to 45°C, at ambient 25°C
Plate shaking	Orbital	Orbital
User interface	PC software (SkanIt software)	PC software (SkanIt software)
Computer interface	USB 2.0	USB 2.0
Dimensions (H x W x D)	340 x 420 x 420 mm 13.4 x 16.5 x 16.5 in.	340 x 420 x 420 mm 13.4 x 16.5 x 16.5 in.
Weight	Basic unit 21 kg (46 lb) 2 optional dispensers add 2.4 kg	Basic unit 21 kg (46 lb) 2 optional dispensers add 2.4 kg

Ordering information

Description	Cat. No.
Fluoroskan Microplate Fluorometer	
Fluoroskan Microplate Fluorometer, 100–240 V, 50/60 Hz*	5200110
Fluoroskan Microplate Fluorometer, 100–240 V, 50/60 Hz, with one dispenser*	5200111
Fluoroskan Microplate Fluorometer, 100–240 V, 50/60 Hz, with two dispensers*	5200112
Fluoroskan FL Microplate Fluorometer and Luminometer	
Fluoroskan FL Microplate Fluorometer and Luminometer, 100–240 V, 50/60 Hz*	5200220
Fluoroskan FL Microplate Fluorometer and Luminometer, 100–240 V, 50/60 Hz with one dispenser*	5200221
Fluoroskan FL Microplate Fluorometer and Luminometer, 100–240 V, 50/60 Hz with two dispensers*	5200222

* Includes PC software and filter pairs: Ex 355 nm/Em 460 nm, Ex 485 nm/Em 538 nm. Other filters available upon request.

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