



# FLUOstar Omega microplate reader

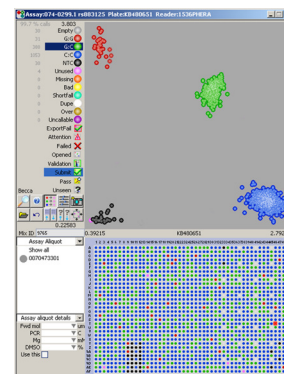
## Filter-based multi-mode microplate reader

The FLUOstar® Omega is the ideal plate reader for life science applications. It is a multimode microplate reader with five possible detection modes, dependent on configuration.

The FLUOstar Omega utilises filters for absorbance as well as highly sensitive filters for all other detection modes. An optional ultra-fast UV/Vis spectrometer can be added.



Detection mode	Fluorescence Intensity - including FRET UV/Vis Absorbance filter based (optional)			
Measurement modes	Top reading End-point and kinetic measurements Sequential multi-excitation measurements Sequential multi-emission measurements Ratiometric measurements			
Microplate formats	96- and 384-well plates: User-definable or standard SBS format			
Light source	High energy xenon flashlamp			
Detectors	Side window photomultiplier tube			
Optical filters	FAM, HEX and ROX optics, supplied as standard Excitation and emission filter wheels for maximum 8 filters each Customised filters available on request			
Sensitivity	FI	<0.2 fmol/well Fluorescein		
	ABS with spectrometer (optional)	Spectral range: 220 - 850 nm Full spectrum captured in <1 s/well Selectable spectral resolution: 1-10 nm OD range: 0 to 3 OD; OD accuracy: <1 % at 2 OD OD precision: <0.5 % at 1 OD and <0.8 % at 2 OD		
Read times		1 flash (flying model)	10 flashes	20 flashes
	96-well plate	9 s	24 s	33 s
	384-well plate	1 min 6 s	1 min 14 s	1 min 53 s
Software	Licence-free reader control software package for FLUOstar Omega functionality Single licence for KlusterCaller™ analysis software (user-activated upon request) upon installation via issue of a licence key.			
Handheld barcode reader / Stacker with integral barcode reader	Optional plug and play handheld barcode scanner or for increased throughput combined with a stacker holding up to 50 plates - continuous loading feature			
Dimensions	Width: 44 cm (17.3"); depth: 48 cm (18.9"); height: 30 cm (11.8"); weight: 28 kg (61.7 lbs)			



Data plot from KlusterCaller

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