

# Olis DM 45 Specifications

DM 45		
HARDWARE SPECIFICATIONS	Light source	Standard: 75W xenon lamp arc lamp; Optional: 150W or 300W arc lamp
	Excitation monochromator	Standard: Single concave 1200 l/mm, 350 nm blaze; Optional: Single, concave 1200 l/mm blazed at 250 nm 450 nm
	Emission monochromator	Standard: Single concave grating, 1200 l/mm, 450 nm blaze; Optional: Single concave grating, 1200 l/mm, 250 nm or 350 nm blaze
	Wavelength scale	185-1100 nm
	Measuring wavelength range (photon counting)	Standard: 280-680 nm; Optional: 170-630 nm, 280-850 nm, 170-850 nm
	Spectral bandwidth	Standard: 0.5, 2.4, 5.0, 13, and 25 nm; Optional: Slit wheel with 0.2, 1.1, 3.0 and 6.0 nm
	Wavelength accuracy	± 0.2 nm
	Monochromator motor step	0.125 nm/step
	Sensitivity	Standard: S/N of 2200 (75W lamp); Optional: S/N of 4000 (300W lamp); Conditions: 350 nm excitation, 5 nm bandwidth, 1 sec integration
	Maximum data collection rate	20 Hz
	Integration time	10 ms to 100s
	Wavelength scanning	Arbitrary to 2000 nm/min
	Wavelength slewing speed	4000 nm/min
	Interface	RS232, USB
	Dimensions and weight	Optical bench is 56 cm x 74 cm and instrument weighs 55 kg
	Power requirements	120-240V; 50/60Hz
	Operational temperature range	15-30° C
	Operational humidity range	< 90%
	Warranty	Standard: One year full service; Optional: Extended warranty or on-site service plans
Optional Accessories	Peltier cell holders, multi-cell turret, polarizers, polarization module, automated shutters, titrator, stopped flow, solid cell holder, cryostat, flash lamp, slit wheel	
SOFTWARE SPECIFICATIONS	Measurement	Excitation, emission, and synchronous scanning, time-course measurement, programmable repeated scans, automated emission excitation matrix scanning, scripted temperature control, G-factor free anisotropy.
	Data processing	Arithmetic processes involving spectra and/or constants, smoothing, first through fifth derivatives, 1/Y, logarithmic conversion, data printout, emission correction, interpolation, peak-finder, area calculation, averaging scans
	Data output	3D graphical data, export to Excel, Olis format, conversion to ASCII
	Data fitting	Global analysis using SVD, Two dimensional kinetic fits
	PC requirements	Pentium 4 or Duo Core, 512MB RAM, 80GB HD; Windows XP or Windows VISTA