

Specifications*

Sunrise general specifications

Optical system	12 measurement channels, 1 reference channel	
Filters	up to 6	
Wavelength range	340 to 750 nm	
Bandwidth @ 50% transmission	10 +/- 2 nm	
Measurement range	340 to 399 nm: 0 to 3.0 OD, 400 to 750 nm: 0 to 4.0 OD	
Measurement time	Single wavelength	6 seconds
	Dual wavelength	8 seconds
	Kinetic repeat time:	5 seconds
Accuracy	0.0 to 2.0 OD/492 nm	better than +/- (1% + 0.010 OD)
	2.0 to 3.0 OD/492 nm	better than +/- (1.5% + 0.010 OD)
Linearity	340 to 399 nm	0.0 to 2.0 OD better than +/- 2%
	400 to 750 nm	0.0 to 2.0 OD better than +/- 1%
Precision	0.0 to 2.0 OD/492 nm	2.0 to 3.0 OD better than +/- 1.5%
	2.0 to 3.0 OD/492 nm	better than +/- (0.5% + 0.005 OD)
Resolution	0.001 OD	
Interface	RS 232 C (remote control) / parallel, USB (printer interface only with optional Touchscreen)	
Shaking	Linear shaking in 4 different modes	
Physical data	Width	28.5 cm
	Depth	34.0 cm
	Height	14.5 cm (21.0 cm incl. optional Touchscreen)
	Weight	6.2 kg (6.8 kg incl. optional Touchscreen)

Specification tunable wavelength option

Wavelength range	400 to 700 nm using gradient filter / 340 to 750 nm using standard filter	
Accuracy	0.0 to 2.0 OD /492 nm	better than +/- (1.5% + 0.010 OD)
Linearity	0.0 to 2.5 OD /492 nm	better than +/- 2%
Precision	0.0 to 2.5 OD /492 nm	better than +/- (1% + 0.005 OD)

Specification temperature control

Temp. range	RT to 42 °C (resolution 0.1 °C)
Temp. accuracy	0.2 °C
Temp. variation across plate	less than 0.5 °C

Specifications of Touchscreen Color on-board operation

Operating system	Windows CE™
Software	Magellan.CE
Storage capacity	>= 32 MB (USB stick)
Size	7.5" diagonal
Resolution	VGA (640 x 480 pixel)

*Specifications documented during production quality check

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