

# Spectrophotometers









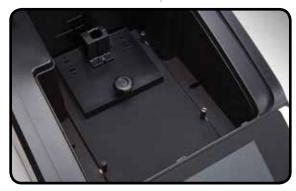
# Together, making light work



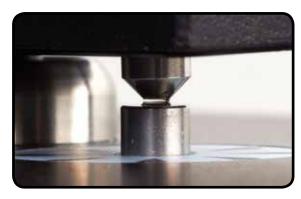
**Since 1972** 



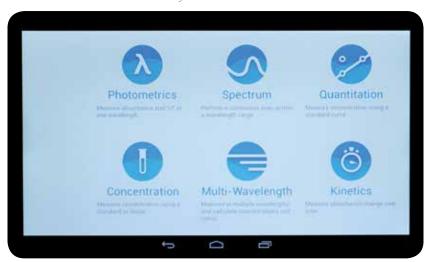
Versatile Sample Chamber



Precision Nano Read-head



Intuitive 7" HD Touchscreen



Measurement Modes



### Intuitive Cloud-enabled technology





Securely upload and share data



Complimentary and unlimited storage



Protocols and data are only a click away



Simultaneously manage multiple devices

"CPLive connectivity will significantly simplify your workflows by enabling you to securely archive & share your data, easily scale your research, quickly add future devices and intuitively manage multiple machines—all with a simple touch of a button"

Neil Pomeroy, New Product Development Director



### **Technical Specifications**

		7410	7415	7615
Wavelength	Range	320 to 1000nm	198 to 1000nm	198 to 1000nm
	Accuracy	±2.0nm	±2.0nm	±2.0nm
	Repeatability	± 1.0nm	± 1.0nm	± 0.5nm
>	Spectral bandwidth	5.0nm	5.0nm	1.5nm
S	Transmittance	0 to 199.9%	0 to 199.9%	0 to 199.9%
netri	Absorbance	-0.300 to 2.500Abs	-0.300 to 2.500Abs	-0.300 to 2.500Abs
Photometrics	Accuracy	± 1%T, ± 0.010Abs at 1.000Abs	± 1%T, ± 0.010Abs at 1.000Abs	± 1%T, ± 0.010Abs at 1.000Abs
돈	Stray light	<0.5% at 340nm	<0.5% at 340nm and 220nm	<0.5% at 340nm and 220nm
Concentration / Quantitation / Kinetics	Curve fit algorithms	Linear through zero, Linear, Quadratic through zero and Quadratic	Linear through zero, Linear, Quadratic through zero and Quadratic	Linear through zero, Linear, Quadratic through zero and Quadratic
	Measurement time	2 to 9999 seconds	2 to 9999 seconds	2 to 9999 seconds
entra ion /	Calibration	Blank with a single standard or factor	Blank with a single standard or factor	Blank with a single standard or factor
once	Display	Graphical	Graphical	Graphical
Quar	Analysis	Concentration, rate of change, initial and final absorbance / %T	Concentration, rate of change, initial and final absorbance / %T	Concentration, rate of change, initial and final absorbance / %T
E	Range	320 to 1000nm	198 to 1000nm	198 to 1000nm
Spectrum	Scan interval	Selectable 1, 2, 5 or 10nm	Selectable 1, 2, 5 or 10nm	Selectable 1, 2, 5 or 10nm
Spe	Analysis	Absorbance or % transmittance and peaks and valleys and area under curve	Absorbance or % transmittance and peaks and valleys and area under curve	Absorbance or % transmittance and peaks and valleys and area under curve
Other .	Light source	Tungsten halogen lamp	Xenon lamp	Xenon lamp
₹	Lamp save	Yes	Not applicable	Not applicable

				7415 Nano	
Photometrics Wavelength	Range	198 to 1000nm	Concentration Quantitation	Maximum concentration	6000ng / μl (dsDNA) (at 0.2mm)
	Accuracy	±2.0nm		Detection limit	2ng/μl (dsDNA) (at 0.5mm)
	Spectral bandwidth	5.0nm		Measurement time	< 6.5 seconds
	Path length	0.2 or 0.5mm (auto-ranging)		Minimum sample size	0.5µl (at 0.2mm),1.0µl (at 0.5mm)
	Absorbance accuracy	± 0.01Abs at 1.000Abs		Maximum sample size	5µl
Modes	Nucleic acid	dsDNA, ssDNA, RNA, Oligonucleotides, 260/280, 260/230, Variable Ratio	Other	Sample pedestal material	Quartz stainless steel
	Protein	BCA, Bradford, Lowry, Biuret, Direct UV		Light source	Press to read Xenon lamp

All variants: Internal Memory: 10GB for results and methods. Dimensions: (w x d x h) 280 x 500 x 156mm, Weight: 9kg. Outputs: USB type A x2, USB type B x1, ethernet connection (RJ45), Power Supply: 24 DC, 2.5A, Voltage / Frequency: 100 - 240VAC at 50 to 60Hz. Warranty: 3 years (in Xenon Lamp)

#### Ordering Information

Cat. No.	Description
ML-83056-21	Model 7410 Single beam, VISIBLE scanning spectrophotometer, White. Fitted with 10x10 cuvette holder
ML-83056-31	Model 7410 Single beam, VISIBLE scanning spectrophotometer, Black. Fitted with 10x10 cuvette holder
ML-83056-22	Model 7415 Single beam, UV/VISIBLE scanning spectrophotometer, White. Fitted with 10x10 cuvette holder
ML-83056-32	Model 7415 Single beam, UV/VISIBLE scanning spectrophotometer, Black. Fitted with 10x10 cuvette holder
ML-83056-23	Model 7415 Nano Single beam, micro volume UV/visible scanning spectrophotometer, White. Fitted with micro-volume accessory, includes calibration standards with certificate
ML-83056-33	Model 7415 Nano Single beam, micro volume UV/visible scanning spectrophotometer, Black. Fitted with micro-volume accessory, includes calibration standards with certificate
ML-83056-26	Model 7615 Split beam, UV/VISIBLE scanning spectrophotometer, White. Fitted with 10x10 cuvette holder
ML-83056-36	Model 7615 Split beam UV/VISIBLE scanning spectrophotometer, Black. Fitted with 10x10 cuvette holder

All units supplied with a universal power supply, UK, EU & US power leads, and instruction manual.

#### ColeParmer.com

USA:

1-800-323-4340 1-847-549-7600 Canada: 1-800-363-5900 China: +86-21-5109-9909 France: +33 (0) 1486 37800 Germany: +49 (0) 9377 92030 India: 1-800-266-1244 Italy: +39 (0) 1313 89513 UK: +44 (0) 1480-272279

All other countries: 1-847-549-7600