Cole-Parmer®

SP-300 Series Spectrophotometers

- UV and UV/VIS Spectrophotometers
- Easy to use
- Compact and lightweight with a small footprint
- Multiple mode choices and customizable features



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SP-300 Series Spectrophotometers

The four spectrophotometers in the SP-300 series range are models SP-300-VIS and SP-350-VIS which cover the visible region of the spectrum, and models SP-300-UV and SP-350UV which use a flash xenon lamp to extend the wavelength range into the UV region of the spectrum.

Basic models, SP-300-VIS and SP-300-UV, feature measurement modes, percent transmittance, absorbance and concentration. Advanced models, SP-350-VIS and SP-350-UV, include the basic features plus scanning, kinetics and quantitation.

Improved Optics

The SP-300 series models have improved optics resulting in a narrow spectral bandwidth of 5 nm and an absorbance range of -0.3 to 2.5 Abs.

- The SP-300-UV and SP-350-UV models use a ‘press to read’ xenon lamp to give more accurate readings and extend lamp life.
- The xenon lamp is covered by a 3 year warranty.
- The SP-300-VIS and SP-350-VIS models have a tungsten halogen lamp with a lamp save feature which enables the lamp to be turned off automatically after periods of inactivity.



Improved optics



Extended lamp life with PTR
(press to read)



Autologging capable



Easy USB data transfer
(SP-350-VIS & SP-350-UV models)

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SP-300 Series Spectrophotometers



SPECIFICATIONS				
	SP-300-VIS	SP-300-UV	SP-350-VIS	SP-350-UV
Outputs	Analog, RS-232, Integral printer*		USB, Analog, RS-232, Integral printer*	
Size (Wx H x D)	27.5 x 22.0 x 40.0 cm (11.0 x 9.0 x 16.0")			
Weight	6 kg (13 lb)			
	Wavelength			
Range	320 to 1,000 nm	198 to 1,000 nm	320 to 1,000 nm	198 to 1,000 nm
Light source	Tungsten halogen lamp	Xenon lamp	Tungsten halogen lamp	Xenon lamp
Resolution	1 nm			
Accuracy	±2 nm			
Repeatibility	±0.5 nm			
Spectral bandwidth	5 nm			
	Photometrics			
Transmittance	0 to 199.9%			
Absorbance	–0.300 to 2.500 A			
Accuracy	±1% T, ±0.01 Abs at 1.000 Absorbance			
Resolution	0.1% T, 0.001 A			
	Concentration			
Range	–300 to 9,999			
Resolution	Selectable 1, 0.1, 0.01, 0.001			
Calibration	Blank with a single standard or factor			
Factor	0.001 to 10,000			
Standard	0.001 to 1,000			
Units	no units, %, ppm, EBC, SRM, mEq/L, mEq, M, mM, µM, nM, U, U/L, U/mL, g/L, mg/L, µg/L, ng/L, g/dL, mg/dL, µg/dL, mg/mL, µg/mL, ng/mL, µg/µL, ng/µL, mol/L, mmol/L			

*Printer is optional on all models

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EXCLUSIVE SPECIFICATIONS FOR SP-350-VIS AND SP-350-UV ADVANCED MODELS	
	Quantitation
Range	-300 to 9,999
Resolution	Selectable 1, 0.1, 0.01, 0.001
Calibration	Blank with up to 6 standards
Curve fit statistics	Quadratic, quadratic through zero, linear, linear through zero, interpolate
	Kinetics
Measurement time	2 to 9,999 seconds
Calibration	Blank with a single standard or factor
Resolution	Selectable 1, 0.1, 0.01, 0.001
Display	Graphical and concentration
Analysis	Concentration, rate of change, initial and final absorbance or % transmittance
	Spectrum
Scan interval	Selectable 1, 2 or 5 nm
Analysis	Absorbance or % transmittance and peak and valleys
	Other
GLP	Current time and date, user ID, instrument lock, and method lock
Method storage	240
Results storage	Limited by attached USB
Removable media	USB (supplied)

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SP-300 Series Spectrophotometers

Ordering Information

Cole-Parmer model	Jenway model	Jenway legacy SKU	Item number
SP-300-VIS	7300 Visible Spectrophotometer; 90 to 264 V	730001	**83058-15**
SP-300-UV	7305 UV/Visible Spectrophotometer; 90 to 264 V	730501	**83058-16**
SP-350-VIS	7310 Advanced Visible Spectrophotometer; 90 to 264 V	731001	**83058-17**
SP-350-UV	7315 Advanced UV/Visible Spectrophotometer; 90 to 264 V	731501	**83058-18**

Accessories

Description	Jenway legacy SKU	Item number
Automatic Turet, 8-Cell	735401	**83070-31**
Sipper Pump	735201	**83070-33**
Electronic Peltier Cuvette Holder	735301	**83070-35**
Combination Sipper-Peltier Pump	735701	**83070-37**
Cuvette Holder, Water Heated, 10 mm Square	736201	**83070-51**
Boiling Tube Holder	735601	**83058-95**
Internal Printer	660101	**83070-39**
Dust Cover	735001	**83058-94**

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