



# 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



# 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.

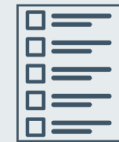
- The SP-300-UV and SP-350-UV models use a 'press to read' xenon lamp to give more accurate readings and extend lamp life.
- The xenon lamp is covered by a 3 year warranty.
- The SP-300-VIS and SP-350-VIS models have a tungsten halogen lamp with a lamp save feature which enables the lamp to be turned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

# SP-300 Series Spectrophotometers



SPECIFICATIONS				
	SP-300-VIS	SP-300-UV	SP-350-VIS	SP-350-UV
<b>Outputs</b>	Analog, RS-232, Integral printer*		USB, Analog, RS-232, Integral printer*	
<b>Size (W x H x D)</b>	27.5 x 22.0 x 40.0 cm (11.0 x 9.0 x 16.0")			
<b>Weight</b>	6 kg (13 lb)			
<b>Wavelength</b>				
<b>Range</b>	320 to 1,000 nm	198 to 1,000 nm	320 to 1,000 nm	198 to 1,000 nm
<b>Light source</b>	Tungsten halogen lamp	Xenon lamp	Tungsten halogen lamp	Xenon lamp
<b>Resolution</b>	1 nm			
<b>Accuracy</b>	±2 nm			
<b>Repeatability</b>	±0.5 nm			
<b>Spectral bandwidth</b>	5 nm			
<b>Photometrics</b>				
<b>Transmittance</b>	0 to 199.9%			
<b>Absorbance</b>	-0.300 to 2.500 A			
<b>Accuracy</b>	±1% T, ±0.01 Abs at 1.000 Absorbance			
<b>Resolution</b>	0.1% T, 0.001 A			
<b>Concentration</b>				
<b>Range</b>	-300 to 9,999			
<b>Resolution</b>	Selectable 1, 0.1, 0.01, 0.001			
<b>Calibration</b>	Blank with a single standard or factor			
<b>Factor</b>	0.001 to 10,000			
<b>Standard</b>	0.001 to 1,000			
<b>Units</b>	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

# SP-300 Series Spectrophotometers



EXCLUSIVE SPECIFICATIONS FOR SP-350-VIS AND SP-350-UV ADVANCED MODELS	
	<b>Quantitation</b>
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
	<b>Kinetics</b>
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
	<b>Spectrum</b>
Scan interval	Selectable 1, 2 or 5 nm
Analysis	Absorbance or % transmittance and peak and valleys
	<b>Other</b>
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)

# 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	<b>83058-15</b>
SP-300-UV	7305 UV/Visible Spectrophotometer; 90 to 264 V	730501	<b>83058-16</b>
SP-350-VIS	7310 Advanced Visible Spectrophotometer; 90 to 264 V	731001	<b>83058-17</b>
SP-350-UV	7315 Advanced UV/Visible Spectrophotometer; 90 to 264 V	731501	<b>83058-18</b>

## Accessories

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