

## 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 equipment and 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)

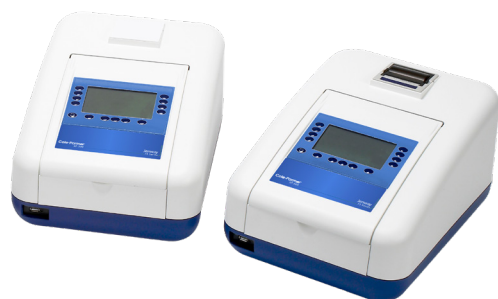
# SP-300 Series Spectrophotometers



| 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> |

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