

# 6300 and 6320D

## Visible Spectrophotometers

The 6300 is a high quality, low cost unit for spectrophotometric applications in schools and colleges, as well as in QC and testing procedures for a wide variety of services and industries. The 6320D is based on the 6300 platform and includes a domed lid which accepts taller tubes up to a height of 105mm.

### Technical Specification

#### Wavelength

|                    |               |
|--------------------|---------------|
| Range              | 320 to 1000nm |
| Resolution         | 1nm           |
| Accuracy           | ±2nm          |
| Spectral bandwidth | 8nm           |

#### Photometrics

|               |                       |
|---------------|-----------------------|
| Transmittance | 0 to 199.9%T          |
| Absorbance    | -0.300 to 1.999A      |
| Accuracy      | ±1%T                  |
| Resolution    | 0.1%T, 0.001A         |
| Stray light   | <0.5%T                |
| Noise         | <1%                   |
| Stability     | 1%/h after 15 minutes |

#### Concentration

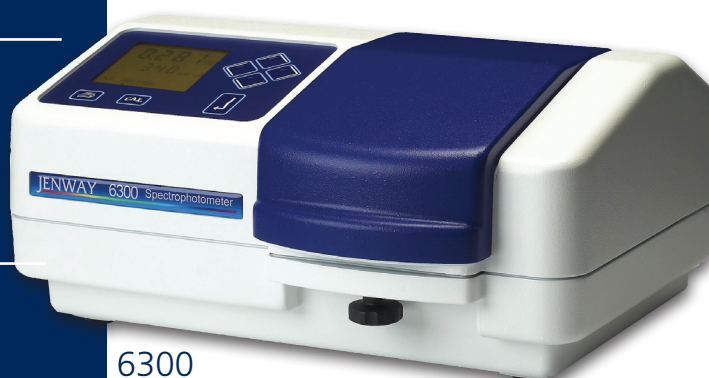
|            |                             |
|------------|-----------------------------|
| Range      | -300 to 1999                |
| Resolution | 0.1 to 1                    |
| Units      | ppm, mg/l, g/l, M, %, blank |
| Factor     | 0 to 199.9, 1000 to 9999    |

#### Other

|                      |                       |
|----------------------|-----------------------|
| Light source         | Tungsten halogen lamp |
| Outputs              | Analogue and RS232    |
| Power                | <50W*                 |
| Size (w x d x h), mm | 365 x 272 x 160       |
| Weight, kg           | 6                     |

### Key Features

- Wavelength range of 320 to 1000nm
- Absorbance, %T and concentration modes
- Multi-parameter display with wavelength and photometric readouts
- Wide range of sampling accessories
- Domed lid of 6320D accepts tubes up to 105mm tall
- 3 year warranty



6300

Part code: 630 501



6320

Part code: 632 501

### Ordering Information

| Part Code | Description   |
|-----------|---|
| 630 501   | 6300 visible spectrophotometer supplied with mains lead, pack 100 disposable cuvettes, 10 x 10mm cell holder, interface cable and 63-Zero PC application software on CD-ROM** (230V/50Hz) |
| 632 501   | 6320D visible spectrophotometer supplied with mains lead and dual cell holder (for 10mm square cuvettes and 12.7mm diameter tubes) (230V/50Hz)  |

\* Voltage variants available see page 94

\*\* Requires free on-line registration

## Key Features

- Wavelength range of 198 to 1000nm
- Xenon lamp
- Easy and intuitive operation
- Absorbance, %T and concentration modes
- Multi-parameter display with wavelength and photometric readouts
- Wide range of sampling accessories
- 3 year warranty



6305

Part code: 635 001

6305

## UV/Visible Spectrophotometer

The 6305 is ideal for applications similar to the 6300 requiring measurements in the UV and visible wavelength ranges. Using a single, pulsed xenon lamp the 6305 offers an extended lamp life and high energy throughput in the UV and visible regions.

### Technical Specification

#### Wavelength

|                    |                        |
|--------------------|------------------------|
| Range              | 198 to 1000nm          |
| Resolution         | 1nm                    |
| Accuracy           | ±2nm                   |
| Spectral bandwidth | 8nm, 6nm over UV range |

#### Photometrics

|               |                            |
|---------------|----------------------------|
| Transmittance | 0 to 199.9%T               |
| Absorbance    | -0.300 to 1.999A           |
| Accuracy      | ±1%T                       |
| Resolution    | 0.1%T, 0.001A              |
| Stray light   | <0.5%T at 220 and 340nm    |
| Noise         | <0.001A at 0A at 400nm     |
| Stability     | <0.002A/h after 30 minutes |

#### Concentration

|            |                             |
|------------|-----------------------------|
| Range      | -300 to 1999                |
| Resolution | 0.1 to 1                    |
| Units      | ppm, mg/l, g/l, M, %, blank |
| Factor     | 0 to 199.9, 1000 to 9999    |

#### Other

|                      |                    |
|----------------------|--------------------|
| Light source         | Xenon lamp         |
| Outputs              | Analogue and RS232 |
| Power                | <50W*              |
| Size (w x d x h), mm | 365 x 272 x 160    |
| Weight, kg           | 6                  |

### Ordering Information

| Part Code | Description   |
|-----------|---|
| 635 001   | 6305 UV/Visible spectrophotometer supplied with mains lead, pack 100 disposable cuvettes, 10x10mm cell holder, interface cable and 63-Zero PC application software on CD-ROM** (230/50Hz) |

\* Voltage variants available see page 94

\*\* Requires free on-line registration