

product code:

80-2116-30, 80-2116-31, 80-2116-32, 80-2116-33

# Ultrospec 10 Cell Density Meter



Fig 1. Ultrospec 10 is ideal for cell density OD measurements.

## Description

The Ultrospec™ 10 Cell Density Meter measures the density of cells in suspension at 600 nm. Small, portable, and easy to use, the instrument can measure growth rates of all types of cells, including *E.coli* and yeast. Rechargeable batteries provide nearly one month of cord-free use.

The Ultrospec 10 uses a 600 nm LED source in combination with an advanced fiber optic to obtain optical density measurements. Measurements can be sent via a serial lead to a printer or can be downloaded to an appropriate program on a personal computer for analysis.

- Designed exclusively for cell density measurement:** Employing a dedicated device for measuring and monitoring cell growth reduces the risk of cross contamination and frees up valuable spectrophotometer time.
- Battery-operated and portable:** The Ultrospec 10 is not tethered to power outlets or leads and can be carried to samples, leaving experiments undisturbed and enabling scientists to collect data more efficiently.
- Accepts tubes or plastic, disposable cells:** The instrument handles different experiment formats, including Erlenmeyer flasks with side arms, for measurement without risk of contamination.
- Serial output with 99-place memory:** Scientists control result output, choosing whether to send results to a PC or a printer or to simply store results for retrieval at a more convenient time.
- Compact, low-maintenance device:** Powered by an LED, the Ultrospec 10 has no bulbs or filters to replace or fail. The device's smooth surface is easily cleaned in the event of spillage.

## Technical specifications

Wavelength	600 nm
Bandwidth	40 nm
Range	Optical density -0.3 to 1.99 A
Accuracy	<±0.05 A at 1 A using neutral density filters
Repeatability	±0.02 A at 1 A
Cuvette holder	Fixed with drain hole. Accepts 10 mm pathlength semi-micro and macro cuvettes or 14–17 mm round tubes.
Output	RS232
Memory	99 readings
Display	Custom LCD
Power requirements	External power adapter (110-220 V) or internal rechargeable NiMH battery
Approximate dimensions	180 × 60 × 150 mm (W × H × D)
Weight	0.6 kg

*Specifications are measured after the instrument has warmed up at constant ambient temperature and are typical of a production unit. As part of our policy of continuous product development we reserve the right to alter specifications without notice. We supply support agreements that help you to fulfil demands of regulatory guidelines concerning GLP/GMP. These include calibration and certification using filters traceable to international standards by certificated engineers using calibrated test tools. The manufacturer of these products designs and manufactures in accordance with an ISO 9001 approved quality system. The product is CE compliant.*

## Ordering information

Ultrospec 10 Cell Density Meter, Classic	80-2116-30
Ultrospec 10 Cell Density Meter, Yellow	80-2116-31
Ultrospec 10 Cell Density Meter, Plum	80-2116-32
Ultrospec 10 Cell Density Meter, Apple	80-2116-33

### Accessories

S2000P serial printer (includes serial cable)	80-3000-94
Spreadsheet interface software	80-2110-73
Serial cable	80-3001-00
Pack of 100 disposable cells, 1 ml minimum volume	80-3000-60
Pack of 100 disposable cells, 0.5 ml minimum volume	80-3000-76
Adapter set for 10 and 12 mm tubes	80-3000-57

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