

# Ultrospec 2200

UV-Visible Spectrophotometer



- **Powerful**— Onboard firmware includes a wide selection of pre-loaded methods.
- **Intuitive**— Easy-to-use icon-driven, color touch screen for on-board control and analysis.
- **Efficient**— Easily transfer results and method information via the USB port using the simple screen capture function
- **Flexible**— Compatibility with a wide range of Biochrom accessories



# Spectrophotometry: Essential to your lab, Essential to your work.

## Is your equipment up to spec?

As a scientist involved with high throughput of routine samples, often with different requirements, high-quality spectrophotometry equipment is vital to the success of your work. Whether you are a researcher or a quality control technician working in a pharmaceutical, academic or industrial lab, you depend on accurate, consistent results across multiple samples—every day. This becomes even more critical if you additionally face regulatory burdens, such as GLP, 21 CFR part 11 compliance or IQ/OQ.

It can be a challenge to keep up with the latest technologies and regulations. So how are you sure that your equipment is truly delivering what you need?

## Count on the best-in-class

Biochrom has been delivering best-in-class UV-Vis spectrophotometers for over 50 years to a dedicated, global install base of thousands of scientists just like you.

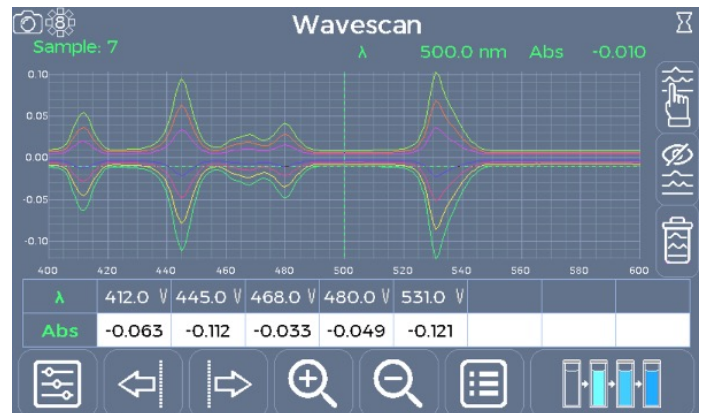
Cited tens of thousands of times in research publications since its launch in 1982, our Ultrospec range has been installed in all types of labs across the globe. The newest member of this range, the Ultrospec 2200 UV-Visible spectrophotometer builds on this legacy to give you this highest level of confidence for years to come.

## Intuitive Control, Powerful Analysis.



### Instrument Homescreen

With quick access to common applications from the homescreen, users are always just a few clicks (taps?) away from the next set of sample readings.



### Powerful Onboard Analysis

Color-coded sample overlays allow for quick visual analysis of multiple sample reads, along with zoom and track functionality for more in depth peak analysis.

# Ultrospec 2200—Powerful Simplicity

The Ultrospec 2200 (U2200) is simple-to-use instrument—with highly advanced performance functionality, and GLP mode to ensure high quality, consistency and reliability of results. Versatile and precise, this instrument ideal for use in any laboratory.

## Powerful, Onboard Firmware

The onboard firmware provides a wide selection of pre-loaded methods for life sciences, including applications for quantification of Nucleic Acids, Proteins and Cell Density. Measurements may be taken via direct absorbance, or by accessing the pre-loaded menu of commonly available fluorescent dyes for high precision requirements.

## Modern, Energy-Efficient Display

The system has an 800×480-pixel resolution backlit LCD color display with touch panel navigation of the instrument's built-in firmware. When the display is off, the only power consumed is by the touch screen controller. Instrument exits sleep mode with a touch of the screen.

## Versatile Sampling Options

The Ultrospec 2200 comes with an automated 8-cell sample carousel. It also has a wide range of optional accessories, such as a sippers, heating and various cell accessories, for the ultimate in flexibility.



## TECHNICAL SPECIFICATIONS

Wavelength Range	190 to 1100 nm
Monochromator	1200 lines/mm Aberration corrected concave grating
Wavelength Calibration	Automatic upon switch on
Beam Height	15 mm
Spectral Bandwidth	<3 nm
Wavelength Accuracy	±1 nm
Wavelength Reproducibility	±0.5 nm
Light Sources	Xenon flash lamp
Detector	two silicon photodiodes
Photometric Range	-3.000 to 3.000 A, 0.1 to 100000 %T
Photometric Accuracy	±0.5 % or ±0.003 A whichever is greater at 546 nm
Photometric Reproducibility	±0.5 % to 3.000 A at 546 nm
Stray Light	<0.05 %T at 220 nm using NaI or at 340 nm using NaNO <sub>2</sub>
<0.10 %T at 380 using NaNO <sub>2</sub>	±0.01 A/h at 340 nm
Stability	±0.001 A/h at 340 nm for 0 A
Noise	±0.002 peak to peak ± 0.0005 RMS at 340 nm for 0 A
Digital Output	USB Flash Drive, PC via PVC software, Optional Bluetooth
Data Export	USB Flash Drive: .tsv, native PVC format
PC via PVC: .csv, .emf, .xlsx, .xls, .rtf, .tsv,	
Method Storage	156 with PIN number protection
Graphical Display	Yes, zoom and track function
Sample ID	Yes
Languages	English, German, French, Spanish, Italian, Japanese, Chinese
Dimensions	510 × 350 × 160 mm
Weight	13.00 kg
Power Input	19 VDC at max 90 VA from a supplied 100 to 240 V~, 50/60 Hz Mains Power Adapter



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