Спектрофотометр Biowave 3+ CT

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
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эл.почта: bmq@nt-rt.ru || сайт: https://biochrom.nt-rt.ru/

Biowave 3+ CT Spectrophotometer

The Biowave 3+ Color Touch is truly an all-encompassing Life Sciences Spectrophotometer.

From the most basic cell density or single wavelength reading, to low volume molecular quantification, this is the most versatile single beam UV/Visible instrument on the market.

This compact and robust instrument is perfect for most Life Science laboratories, from undergraduate teaching to biotech and R&D, the Biowave 3+ CT can cover the full spectrum of needs.

Built in Life Science methods

Pre-programmed methodologies for nucleic acid quantification (DNA, RNA and oligonucleotides), protein assays (BCA, Biuret, Bradford and Lowry) and for cell culture density (OD600) measurements. The visualization of the nucleic acid scan is particularly useful, especially for RNA samples where impurities may be present in the 230 nm region, yet not have an adverse effect on the A260/A280 ratio. The system is compatible with low volume UV cuvettes. For those samples that need the most precise results, the Biowave 3+ CT also comes loaded with a menu of commonly available fluorescent dyes to specifically target nucleic acids and proteins.

In kinetics mode, the basic plot of absorbance against time may be supplemented with the result for A/min, plus the correlation coefficient is also calculated for the duration of the assay. This slope may be multiplied automatically by a factor to convert it directly to rate of reaction.

Flexible Data Viewing and Export Options

The 5 inch color touch screen allows users to distinguish multiple samples by color on graph overlays and the zoom and track functions gives the ability to focus on areas of interest.

Results may be downloaded to a USB flash drive in CSV file format or printed to an optional integrated graphical printer for a permanent record. Alternatively, results can be exported via a cable connection to a suitable PC running Print Via Computer (PVC) software or wireless accessory (optional).

Comprehensive IQ/OQ Support for your Biowave instrument:

Comprehensive IQ/OQ documentation and service support is available for our Biowave instruments allowing the qualification of wavelength accuracy, wavelength repeatability, photometric accuracy, stray light, resolution, noise, and drift.

If your lab requires IQ (Installation Qualification) and OQ (Operational Qualification), contact us to learn more.

TECHNICAL SPECIFICATIONS	
SPECIFICATION	DATA
Range	190 to 1100 nm
Monochromator	Flat grating
Calibration	Automatic upon switch on
Beam Height	15 mm
Spectral Bandwidth	3 nm
Accuracy	±2 nm
Reproducibility	±1 nm
Light Source	Xenon flash lamp
Detector	Twin CMOS array
Photometric Range	-0.300 to 2.500 A, 0.3 to 100 %T
Photometric Linearity	±1.3 % or ±0.008 A whichever is greater at 546 nm
Photometric Reproducibility	±0.002 A to 0.5 A at 546 nm
Stray Light	<0.5 %T 340 nm
Stability	±0.01 A/h at 340 nm
Noise	±0.005 peak to peak ±0.002 RMS
Digital Output	USB flash drive, PC via PVC software, Optional Wireless
Data Export	USB flash drive: .tsv, native PVC format PC via PVC: .csv, .emf, .xlsx, .xls, .rtf, .tsv, native PVC format
Method Storage	90 with PIN number protection
Graphical Display	Color touch screen, zoom and track function
Sample ID	Yes
Languages	English, German, French, Spanish, Italian, Japanese, Chinese
Dimensions	260 × 390 × 100 mm

TECHNICAL SPECIFICATIONS	
SPECIFICATION	DATA
Weight 3.00 kg	3.00 kg

Biowave 3+ CT

ITEM #: 80-3007-57

Biowave 3+ CT with Printer

ITEM #: 80-3007-58

Biowave 3+ CT Wireless

ITEM #: 80-3007-59

Biowave 3+ CT Wireless with Printer

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Biowave 3+ Color Touch

Spectrophotometers

The Biowave 3+ Color Touch is truly an all-encompassing Life Sciences Spectrophotometer.

From the most basic cell density or single wavelength reading, to low volume molecular quantification, this is the most versatile single beam UV/Visible instrument on the market.

This compact and robust instrument is perfect for most Life Science laboratories, from undergraduate teaching to biotech and R&D, the Biowave 3+ CT can cover the full spectrum of needs.

Features & Benefits

- Wavelength Range: 190 to 1100 nm
- Fast and easy to use wavelength scanning, kinetics, single or multiple wavelength reading, standard curve and absorbance ratio capability
- Pre-loaded Life Science Methods:
  - Nucleic Acid quantification
  - Protein applications (Bradford, Lowry, Biuret, BSA)
  - Nucleic Acid and Protein fluorescent dyes
  - OD 600 Microbial growth
  - Tm calculation
- 2 year warranty

Technical Specifications

Technical	
Wavelength Range	190 to 1100 nm
Monochromator	Flat grating
Wavelength Calibration	Automatic upon switch on
Beam Height	15 mm
Spectral Bandwidth	3 nm
Wavelength Accuracy	±2 nm
Wavelength Reproducibility	±1 nm
Light Sources	Xenon flash lamp
Detector	Twin CMOS array
Photometric Range	-0.300 to 2.500 A, 0.3 to 199 %T
Photometric Linearity	±1.3 % or ±0.008 A whichever is greater at 546 nm
Photometric Reproducibility	±0.002 A to 0.5 A at 546 nm
Stray Light	<0.5 %T 340 nm
Stability	±0.01 A/h at 340 nm
Noise	±0.005 peak to peak ±0.002 RMS

Technical Specifications

Software	
General Laboratory: Single wavelength, Multi wavelength, Concentration, Standard curve/ Wavelength scanning, Kinetics Absorbance ratio	**Life Science Laboratory:** Nucleic Acid UV quantification, Tm calculation, Protein UV quantification, Protein colorimetry; BSA, Bradford, Lowry and Biuret, Fluorescent label quantification, OD600 microbial culture quantification
Digital Output	USB flash drive, PC via PVC software, Optional: Wireless
Data Export	USB flash drive: .tsv, native PVC format PC via PVC: .csv, .emf, .xlsx, .xls, .rtf, .tsv, native PVC format
Method Storage	90 with PIN number protection
Graphical Display	Color touch screen, zoom and track function
Sample ID	Yes
Languages	English, German, French, Spanish, Italian, Japanese, Chinese
Dimensions	260 × 390 × 100 mm
Weight	3.00 kg

Ordering Info

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