

UV Double Beam Spectro Photometer

UV 1601 - Split Beam & Dual Detector (equivalent to Double beam Spectro Photometer)



- Wide wavelength range, satisfying requirements of various fields.
- The split-beam ratio monitoring system provides accurate measurements and enhances baseline stability.
- Five options for spectral bandwidth selection, 5nm, 5nm, 2nm, 1nm and 0.5nm, made according to customer's need and satisfying the requirements of pharmacopoeia.
- Fully automated design, realizing the simplest measurement.
- Optimized optics and large scale integrated circuits design, light source and receiver from world famous manufacturer all add up to high performance and reliability.
- Rich measurement methods, wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength method and triple-wavelength method etc., meet different measurement requirements.
- Automatic 10mm 8-cell holder, changeable to automatic 5mm – 50mm 4-position cell holder for more choices.
- Data output can be obtained via a printer port and a RS – 232 interface (RS 485 and USB port optional).
- Parameters and data can be saved for user's convenience.
- PC controlled measurement can be achieved for more accurate and flexible requirement.

Specifications

| | |
|-----------------------------|----------------------------------------------------------|
| Wavelength Range | 190 -1100nm |
| Spectral Bandwidth | 2nm (5nm,4nm,1nm,0.5nm optional) |
| Wavelength Accuracy | ± 0.3nm |
| Wavelength Reproducibility | 0.15nm |
| Photometric System | Split-beam ratio monitoring ; Auto scan; Dual detectors |
| Photometric Accuracy | ± 0.3 T (0-100%T), ± 0.002A (0-0.5A) ± 0.004A (0.5A- 1A) |
| Photometric Reproducibility | 0.2%T |
| Working Mode | T, A, C, E |
| Photometric Range | -0.3-3A |
| Stray Light | ≤ 0.1% T (NaI , 220nm, Na NO ₂ 340nm) |
| Baseline Flatness | ± 0.002A |
| Stability | 0.001A/30min (at 500nm, after warming up) |
| Noise | ± 0.001A (at 500nm, after warning up) |
| Display | 6 inches high light blue LCD |
| Detector | Silicon photodiode |
| Power | AC 220V/50Hz, 110V/60Hz, 180W |
| Dimensions | 630 x 470 x 210mm |
| Weight | 26kg |

UV Double Beam Spectro Photometer

UV 2100 Double Beam Spectro Photometer



Features:

- Double beam, fully automated scanning system
- Compatible PC controlled, rich analytical software.
- Wavelength Scan :
- Scanning sample spectra in any range within 190-900nm
- Three scanning speed ; Fast, Middle and Slow selectable,
- With Min. sampling interval of 0.04nm. Data processing function of derivative spectra and smoothing, peak picking, spectrum expansion and superposition and other arithmetic calculation.
- Fixed wavelength measurement: 10 wavelength can be set at the same time.
- Arithmetic calculation between wavelengths can be done.
- Quantitation: standard factor method, standard contrast method : 2-wavelength method, and 3-wavelength method etc.
- Kinetic measurement : Wavelengths and sampling interval selectable, activity calculation available.

| Specifications | |
|-----------------------------|------------------------------------------------------------------------|
| Wavelength Range | 190 - 900nm |
| Spectral Bandwidth | 0.1, 0.2, 0.5, 1.0, 2.0nm |
| Wavelength Accuracy | $\pm 0.3\text{nm}$ (0.15nm if required) |
| Wavelength Reproducibility | 0.15nm |
| Photometric Accuracy | $\pm 0.3\% T$ (0-100%T), $\pm 0.002A$ (0-0.5A), $\pm 0.0004A$ (0.5-1A) |
| Photometric Reproducibility | 0.15%T |
| Working Mode | T, A (-3-4A), C, E |
| Stray Light | $\leq 0.05\% T$ (NaI, at 220nm) |
| Baseline Flatness | $\pm 0.001A$ |
| Stability | 0.0004A/h (at 500nm, after warming up) |
| Detector | Photomultiplier |
| Light source | Tungsten halogen lamp and deuterium lamp |
| Power | AC 230V/50Hz, 110V/60Hz, 400W |
| Dimensions | 670x470x210mm |
| Weight | 45kg |

UV Double Beam Spectro Photometer

UV 2601 Double Beam Spectro Photometer



Features:

- Wide wavelength range, satisfying requirements of various fields.
- Five options for spectral bandwidth selection, 5nm, 4nm, 2nm, 1nm and 0.5nm, made according to customer's need and satisfying the requirements of pharmacopoeia.
- Fully automated design, realizing the simplest measurement.
- Optimized optics and large scale integrated circuits design, light source and receiver from world famous manufacturer all add up to high performance and reliability.
- Rich measurement methods, wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength method and triple-wavelength method etc., meet different measurement requirements.
- Automatic 10mm 8-cell holder, changeable to automatic 5mm-50mm 4-position cell holder for more choices.
- Data output can be obtained via a printer port and a RS – 232 interface (RS 485 and USB port optional).
- Parameters and data can be saved for user's convenience.
- PC controlled measurement can be achieved for more accurate and flexible requirement.

| Specifications | |
|-----------------------------|-------------------------------------------------|
| Wavelength Range | 190 – 1100nm |
| Spectral Bandwidth | 2nm (5nm, 4nm, 1nm, 0.5nm optional) |
| Wavelength Accuracy | ± 0.3nm |
| Wavelength Reproducibility | ≤0.15nm |
| Optical System | Double beam |
| Photometric Accuracy | ± 0.3% T (0-100%T), ±0.002A(0-1A) |
| Photometric Reproducibility | ≤0.15%T |
| Working Mode | T, A, C, E |
| Photometric Range | -0.3-3.5A |
| Stray Light | ≤ 0.1% T (NaI, 220nm, Na NO ₂ 340nm) |
| Baseline Flatness | ± 0.002A |
| Stability | ≤0.001A/h (at 500nm, after warming up) |
| Noise | ±0.001A (at 500nm, after warming up) |
| Display | 6 inches high light blue LCD |
| Detector | Silicon photo-diode |
| Power | AC 220 V/50Hz, 110V/60Hz, 180W |
| Dimensions | 630x470x210mm |
| Weight | 26kg |

CT-2 Series Double Beam Spectrophotometers



CT-2 Series are advanced double beam design consisting of four models; Stand-alone models: **CT-2600** with 1.0 fixed bandwidth; and **CT-2800** with 1.0nm bandwidth. The two detectors are measuring sample and reference respectively & simultaneously for optimizing measurement accuracy. It has application such as Biochemical research & Industry Pharmaceuticals analysis, Production, Education, Environment Protection, and Food Industry They provide accurate measurement in the range of 190nm to 1100nm.

All instruments provide excellent performance for measurements:

- To Stand-alone models, all software methods are included as built-in standard, thus eliminating the need for software
- Options, UV Double Beam system has Large LCD Display and PC Interfacing facility together only
- Data Download-to-PC software expands the data storage to unlimited.
- Automatic 10mm **8-cell holder, changeable to automatic for 2800** & 10mm **Single Cell Cuvette holder for 2600**

This spectrophotometer is suitable for pharmaceutical, biochemical and clinical lab applications as well as routine applications such as quantitative analyses, kinetics, spectrum scanning, multiple components and DNA/Protein analysis. PC Windows® application software and built-in software make this instrument versatile.

Specification

A. Stand-alone models with large graphic LCD display (320 × 240) to directly show graphs on the screen.

B. Unique pre-aligned deuterium lamp for easy lamp replacement to avoid optical adjustment.

C. Powerful integrated software for data acquisition:

- Quantitative
- Basic Mode to measure the Absorbance and Transmittance
- Kinetics available
- Wavelength Scanning
- Multi-Wavelength
- DNA/Protein available
- Concentration & DNA Purity are Quickly and easily calculated absorbance ratio 260/280nm with optional Subtracted
- absorbance at 320nm DNA Concentration = $62.9 \times A_{260} - 36.0 \times A_{280}$ Protein Concentration = $1552 \times A_{260} - 757.3 \times A_{280}$

D. Other features include:

- Wide Wavelength range, satisfying, requirements of various fields, fully automated design, realizing the simplest
- measurement and satisfying the requirements of Pharmacopeia
- Maximum of 9 Wavelength & 8 samples can be measured at one time, Automatic change-over between W Lamp & D2 Lamp
- Optimized optics and large scale integrated circuits design & light source and receiver from world famous measurement
- method all add up to high performance and reliability
- Rich measurements methods wave length scan, time scan, multi wavelength determination. Multi order derivative
- determination, double-wavelength method and triple –wavelength methods etc .meet difference measurement requirement,
- Data output can be obtained via a printer port and a USB Interface.
- Parameters and data can saved for user`s convenience
- PC Controller measurement can be achieved for more accurate and flexible requirement

UV Double Beam Spectro Photometer

| Model | CT-2600 | CT-2800 |
|---------------------------------|----------------------------------------|-----------------------|
| Optical System | Double Beam, Grating 1200 lines/mm | |
| Wavelength Range | 190-1100nm | |
| Spectral Bandwidth | 1nm | 1nm |
| Wavelength Accuracy | ±0.3nm | |
| Wavelength Repeatability | 0.2nm | |
| Photometric Accuracy | ±0.3% T | |
| Photometric Repeatability | 0.15% T | |
| Stray Light | <0.05% T (220nm, 360nm) | |
| Baseline Stability | ±0.001 A/h @ (500nm) | |
| Baseline Flatness | ±0.001 A/h (200 - 1000nm) | |
| Photometric Mode | T, A, E | |
| Scanning Speed | High, Med., Low. , Max. 3600nm/min | |
| Wavelength Setting | Automatic | |
| Photometric Range | -0.3-3 A, 0-200% T, 0-9999 Conc. | |
| Display | Graphic LCD (320 * 240 Dots) | |
| Detector | Si Photodiode | |
| Light Source | Halogen & Deuterium Lamp (per-aligned) | |
| Keyboard | Membrane Keypad or PC | |
| Output | USB Port & Parallel Port (Printer) | |
| Power Requirement | AC 220V/50Hz or AC 110V/60Hz | |
| Dimensions (W × D × H) | 630mm × 470mm × 210mm | 600mm × 450mm × 200mm |
| Weight | 26Kg | 27Kg |
| Packing List | | |
| Spectrophotometer (main system) | 1 | |
| Mains Cord | 1 | |
| Cuvettes | Set of 4 glass, Set of 2 quartz | |
| USB Cord: | 1 | |
| User Manual | | |
| UV-Vis Analyst Software | 1 | |
| Software Manual | 1 | |
| Software Key | 1 | |

UV Double Beam Spectro Photometer
CT-8 Series Double Beam Spectro Photometer

CT-8 Series are advanced double beam design consisting of four models; Stand-alone models: CT-8200 with 1.8nm fixed bandwidth and CT-8600 with 1.0 fixed bandwidth; PC models: CT-8100 with 1.8nm fixed bandwidth and CT-8700 with 1.0nm fixed bandwidth. (Other specifications of the four styles are almost the same except bandwidth). The two detectors are measuring sample and reference respectively and simultaneously for optimizing measurement accuracy. They provide accurate measurement in the range of 190nm to 1100nm.



All instruments provide excellent performance for measurements:

- To Stand-alone models, all software methods are included as built-in standard, thus eliminating the need for software options.
- On-line software upgrade capability via Internet helps to keep your software up-to-date.
- Data Download-to-PC software expands the data storage to unlimited.

This spectrophotometer is suitable for pharmaceutical, biochemical and clinical lab applications as well as routine applications such as quantitative analyses, kinetics, spectrum scanning, multiple components and DNA/Protein analysis. PC Windows® application software and built-in software make this instrument versatile.

| Model | CT-8200 | CT-8100 | CT-8600 | CT-8700 |
|---------------------------|----------------------------------------|----------|----------------------------|----------|
| Optical System | Double Beam, Grating 1200 lines/mm | | | |
| Wavelength Range | 190-1100nm | | 190-1100nm | |
| Spectral Bandwidth | 1.8nm | | 1.0nm | |
| Wavelength Accuracy | ±0.3nm | | | |
| Wavelength Repeatability | 0.2nm | | | |
| Photometric Accuracy | ±0.2% T | | | |
| Photometric Repeatability | 0.15% T | | | |
| Stray Light | <0.05% T | | | |
| Baseline Stability | ±0.0005 A/h | | | |
| Baseline Flatness | ±0.0005 A (200-1000nm) | | | |
| Display | LCD (320 × 240) & PC Model | PC Model | LCD (320 × 240) & PC Model | PC Model |
| Photometric Mode | T, A, E | | | |
| Scanning Speed | High, Med., Low., Max. 3000nm/min | | | |
| Wavelength Setting | Automatic | | | |
| Photometric Range | -0.3-3 A, 0-200% T, 0-9999 Conc. | | | |
| Detector | Si Photodiode | | | |
| Light Source | Halogen & Deuterium Lamp (pre-aligned) | | | |
| Keyboard | Membrane Keypad or PC | | | |
| Output | USB Port & Parallel Port (Printer) | | | |
| Power Requirement | AC 220V/50Hz or AC 110V/60Hz | | | |
| Dimensions (W×D×H) | 600mm × 450mm × 200mm | | | |
| Weight | 26 Kg | | 27Kg | |

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