Double Beam Spectrophotometer Xenon Lamp touch screen Model: GBB-3002

TECHNICAL SPECIFICATIONS

Optical System	Double Beam, Grating 1200 lines/mm
Wavelength Range	190 nm-1100nm
Spectral Bandwidth	1 nm
Wavelength Accuracy	±0.1nm@656.1nm, ±0.3nm@all
Wavelength Repeatability	≤0.1nm
Photometric Accuracy	0.2%T(0~100%T),±0.002A(0-0.5A), ±0.004A(0.5-1A)
Photometric Repeatability	≤0.15%T(0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)
Photometric Range	0-200%T, 0.3~3A, 0-9999C (0-9999F)
Stray Light	≤0.03%T@220nm, 360 nm
Stability	±0.0005A/h@500nm
Baseline Flatness	±0.001A
Noise	0.0005A@500nm
Work Mode	T%, Abs, Conc.Reflectance.E
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)
Wavelength Setting	Auto
Display	10.1"TFT Colored Capacitive touch Screen
Light Source	Imported Xenon Lamp
Detector	Imported Silicon Photodiode
Cuvette Holder	10mm single hole cell holder
Output	USB drive, USB host, RS232
Power	AC 220V/50Hz or AC 110V/60Hz
Shipping Size	810*660*390mm
Gross Weight	27kg
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x2, Power cord, User's Manual, PC software

SALIENT FEATURES

- High quality ashing xenon lamp which can start to test directly without preheating,
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum Scan, DNA/Protein test, Multi-wavelength test, etc.
- In-house massive memory is capable of saving up to 1024M for test data & working curves.
- Supports USB storage, The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage
- Large sample chamber can accommadate 5-100mm cuvettes of all kinds. Provide at Extra cost.
- Extensive accessories are optional, such as auto 8-cell holder, peltier/sipper system, 21 CRR compliant software Provide at Extra cost ect.
- Auto Wavelength Setting
- On-Screen Standard Kinetic Carve Display
- Tungsten/Deuterium Lamp can be Turned ON/OFF Individually to Extend Lifetime

Window Graphic Interface

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Fluorescence Spectrophotometer (GBB-4100)

FEATURES:

- Two mode could be chosen: putrescence intensity and luminous intensity. Fluorescence scanning, kinetic determination and quantity analysis could be Done under fluorescence intensity mode.
- 365 nm exciting wavelength Raman peak of water in 1 cm quartz fluorescence cuvette S/N ≥150 High performance sensitivity simples the measurement of low detective sample.
- High stable and long life 150 W Xenon lamp and power source Ensure high stable testing and wide range of spectrum.
- The normalized feature for fluorescence value could make different fluorescence's result comparable.
- Optional accessories for different measurement, including single hole cell holder, Fluorescence sample holder for different features, membrane sample accessories, power sample accessories, jacket sample accessories and etc.

Specifications:-

- Light source :Hamamatsu 150W Xenon lamp
- Exciting optical filters : Interference optical Filter
- Emission Monochromator :C-T diffraction grating
- Emission wavelength :200~900nm
- Emission bandwidth :10nm
- Sensitivity :S/N≥150(P-P)
- Linear : ≥0.995
- Stability :better than 1.5%/10min
- Power :220V±22V 50Hz±1Hz
- Response time :(0.1-4)s 6 stages adjustable
- Fluorescence display value :0.00-600.00
- Data transmission :USB2.0

EN-61326-1:2013
Electronic equipment for measurement, Control and laboratory use.

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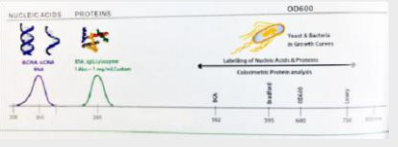
Nano Spectrophotometer GBB-5100

- Nano spectrophotometer Model GBB-5100 is a basic Micro-Volume UV spectrophotometer designed only 2 types of wavelength: 260 nm and 280 nm for the measurement of Nucleic Acids and proteins.
- It is added a function of Bacterial Cell concentration detection (OD 600)
- Android system operation,7 inch touch screen no computer required, easy use

TECHNICAL SPECIFICATIONS

Wavelength Range	260 nm, 280 nm
Sample Size	0.5~2.0ul
Path Length	0.2mm (For high concentration measurement) 1.0mm (Ordinary concentration)
Light Source	Xenon flash lamp
Detector Type	Uv-Silicon photocell
Wavelength Accuracy	1nm
Spectral Resolution	≤3nm (FWHM at Hg 546nm)
Absorbance Precision	0.003Abs
Absorbance Accuracy	1% (7.332Abs at 260nm)
Absorbance Range	0.02 80A
Detection Range	10~4000ng/ul (dsDNA)
Measurement Time	<15s
Dimensions (W x D x H)mm	210 x 268 x 181
Data Output	USB,
Weight	3.6kg
Sample Pedestal Material	Aluminum alloy and Quartz fiber
Operating Voltage	24VDC
Operating Power Consumption	25W
Standby Power Consumption	5W
Software Compatibility	Android System
OD600nm Measurement:	
Light Source	LED
Wavelength Range	600±8nm
Abosorbance Range	0~4A

Nano spectrophotometer have convenience and reproducibility for quantification of DNA, RNA, or protein in one unit.



- 7 inch touch screen with simple interface. No computer required
- Android operating system with free software update
- Only require 0.5-2ul sample to perform accurate measurements.
- Long life's Xenon flash lamp for up to 10 years
- Flexible data output. The data can be printed with built-in printer, and output via USB
- OD600 measurement, ideal for bacterial concentration measurement
- Direct micro-volume measurement with 0.5-2ul of sample. Eliminates the need for expensive accessories.
- Wavelength ranges (260 nm & 280 nm)
- Turn on and instantly measure without lamp warm up time; Full scan capability fof 260 nm -280 nm with 15 sec.
- Switch off automatically when the machine is idle for more than 5mins, and awake by touching the screen.

Accessories **Cuvette 10mm 2 pcs Adapter**

APPLICATION

- ✓ Biology
- ✓ Science-and Research
- ✓ Molecular Biology
- ✓ University
- ✓ Laboratory
- ✓ Chemistry

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Advanced Nano Spectrophotometer GBB-5210

The Nano is an advanced model of Micro UV VIS Spectrophotometer based on with full range of wavelength (200-800nm). It is with an added new function of bacterium cell concentration measurement (OD600) in a cuvette. The Nano only requires 0.5-2ul sample to measure nucleic acids, protein as quickly like do. Nano come with a 7 inch touch screen and integrated Android operating system, with no computer required. It is an ideal equipment for a biology laboratory to make life science research more efficient

TECHNICAL SPECIFICATIONS

Wavelength Range	200~800nm
Sample Size	0.5~2.0ul
Path Length	0.2mm (For high concentration measurement) 1.0mm (Ordinary concentration)
Light Source	Xenon flash lamp
Detector Type	3864-element linear silicon CCD array
Wavelength Accuracy	1nm
Spectral Resolution	≤3nm (FWHM at Hg 546nm)
Absorbance Precision	0.003Abs
Absorbance Accuracy	1% (7.332Abs at 260nm)
Absorbance Range	0.02 100A
Detection Range	10~5000ng/ul (dsDNA)
Measurement Time	<6s
Dimensions (W x D x H)mm	210 x 268 x 181
Data Output	USB, SD-RAM Card
Weight	2.8kg
Sample Pedestal Material	Aluminum alloy and Quartz fiber
Operating Voltage	24VDC
Operating Power Consumption	40W
Standby Power Consumption	5W
Software Compatibility	Android System
OD600nm Measurement:	
Light Source	LED
Wavelength Range	600±8nm
Abosorbance Range	0~4A

Nano spectrophotometer have convenience and reproducibility for quantification of DNA, RNA, or protein in one unit.

- 7 inch touch screen with simple interface. No computer required
- Android operating system with free software update
- Only require 0.5-2ul sample to perform accurate measurements.
- Long life's Xenon flash lamp for up to 10 years
- Flexible data output. The data can be printed with built-in printer, and output via USB memory stick
- OD600 measurement, ideal for bacterial concentration measurement
- Direct micro-volume measurement with 0.5-2ul of sample. Eliminates the need for expensive accessories.
- Wide range of wavelength (200-800nm)
- Turn on and instantly measure without lamp warm up time; Full scan capability from 200-800nm with 6 sec.
- Switch off automatically when the machine is idle for more than 5mins, and awake by touching the screen.

Accessories **Cuvette 10mm 2 pcs Adapter**

APPLICATION

- ✓ **Biology**
- ✓ **Science-and Research**
- ✓ **Molecular Biology**
- ✓ **University**
- ✓ **Laboratory**
- ✓ **Chemistry**

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Microprocessor UV-VIS Double Beam Spectrophotometer Exclusive Model (Variable Bandwidth) - GBB-2800 V

Display (Graphic LCD 320x240 Dots)

STANDARD CONFIGURATION

Glass Cell	4 Nos.
Quartz cells	2 Nos.
Instruments Cover	1 No.
Software CD	1 No.
USB Cable	1 No.
Operational Manual	1 No.
Software Manual	1 No.
Software key	1 No.

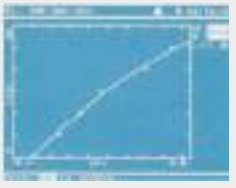
Double Beam UV/VIS Spectrophotometer spectrophotometer are a d vanced double beam optical system . Double be am optica lstructure can in hibit the drift, Suitable for long time test . with 0.5/1/1.5/2/4/5nm Variable bandwidth, They are suitableforre search ,biochemical and pharmaceutical lab applications.

TECHNICAL SPECIFICATIONS

Wavelength Range	190-1100nm
Spectral Bandwidth	0.5/1/1.5/2/4/5nm Variable
Optical System	Double Beam, Blazed Holographic Grating (1200 lines/mm)
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0~200%T,-4~4A,0~9999C
Photometric Accuracy	±0.002 A (0~0.5A), ±0.003A (0.5~1A), ±0.3%T (0~100%T)
Photometric Repeatability	≤0.001 A (0~0.5A), ≤0.002A (0.5~1A), ≤0.2%T (0~100%T)
Stray Light	≤0.05%T(220/360nm)
Scan Speed	High, Medium, Low. Max.2000nm/minute
Baseline Flatness	±0.001A/h
Stability	±0.001A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.3%T/3min (250/500nm,100%T):
Sample Compartment	10mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display	Graphic LCD (320*240 Dots)
Keypad	30-key Alphanumeric Membrance Keypad
Output Port	USB Port
Printer	Mini Serial Printer; PC Printer
PC Software	PC Scanning Software
Power Requirements	AC 90-250V, 50/60Hz
Dimension	635x515x255mm
Weight	26kg

BASIC MODE

To measure the Absorbance and transmittance



QUANTITATIVE

- Coefficient Method
- Standard Curve Up to 10 Standard sample may be used to establish a curve. Four methods for fitting a curve through the calibration points
  Linear. Linear through zero, Square and cubic.

DNA/PROTEIN TEST

Concentration and DNA purity are quickly and easily calculated: Absorbance rations: 260 nm / 280 nm with optional subtracted absorbance at 320 nm. DNA concentration = 62.9XA260-36.0XA280 Protein concentration = 1552xA260-757.3xA 280

WAVELENGTH SCAN

- The wavelength scan intervals are 0.1,0.2,0.5,1,2,5 nm
- High, Medium and low scan speed are available. They vary from 100 to 3600 nm/min
- Wavelength are scanned from high to low so that the instrument waits at high WL. And it minimizes the degradation of UV sensitive samples.

KINETICS

Abs vs time graphs is displayed on the screen in real time wait time and measurement time up to 12 hours may be entered with time interval of 0.5,1,2,5,10,30 seconds and one min. Post-run manipulation includes re-scalling, curve tracking and selection of the part of the curve required for rate calculation. Rate is calculated using a linear regression algorithm before multiplying be the entered factor

SALIENT FEATURES

- Double beam ensure low drift, low noise and Low stray light
- High speed MCU, high precision AD, large storage capacity
- Large LCD display (320*240 Dots)
- 1.0nm or variable Bandwidth meet Pharmacopoeia
- Data and Curve can be stored in real-time
- Online software upgrade capability
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps

FUNCTION

- Photometric
- Quantitative(Standard Curve)
- WL Scan(Spectrum Scan)
- Time Scan(Kinetics)
- DNA/Protein Test
- Multi-WL Test
- System Utility

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Microprocessor UV-VIS Double Beam Spectrophotometer Exclusive Model (Variable Bandwidth) With Peltier GBB-2800 VP

Double Beam UV/VIS Spectrophotometer

Spectrophotometer are advanced double beam optical system. Double beam optical structure can inhibit the drift, Suitable for longtime test. With 0.5/1/1.5/2/4/5nm Variable bandwidth, They are suitable for research, biochemical and pharmaceutical lab applications.

TECHNICAL SPECIFICATIONS

Wavelength Range	190-1100nm
Spectral Bandwidth	0.5/1/1.5/2/4/5nm Variable
Optical System	Double Beam, Blazed Holographic Grating (1200 lines/mm)
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0~200%T, -4~4A, 0~9999C
Photometric Accuracy	±0.002 A (0~0.5A), ±0.003A (0.5~1A), ±0.3%T (0~100%T)
Photometric Repeatability	≤0.001 A (0~0.5A), ≤0.002A (0.5~1A), ≤0.2%T (0~100%T)
Stray Light	≤0.05%T(220/360nm)
Scan Speed	High, Medium, Low. Max.2000nm/minute
Baseline Flatness	±0.001A
Stability	±0.001A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.3%T/3min (250/500nm,100%T)
Sample Compartment	10mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display	Graphic LCD (320*240 Dots)
Keypad	30-key Alphanumeric Membrance Keypad
Output Port	USB Port
Printer	Mini Serial Printer; PC Printer
PC Software	PC Scanning Software
Power Requirements	AC 90-250V, 50/60Hz
Dimension	635x515x255mm
Weight	26kg

TECHNICAL SPECIFICATION

- The valid temperature range is from 15°C to 65°C
- The valid sampling time range is from 30s to 10min,
- The valid peristaltic pump speed range is from 1 to 12
- The sampling speed is about 50ml/min.
- Power supply is 220±22V@50±1Hz or 110±11V@60±1Z

SALIENT FEATURES

- Double beam ensure low drift, low noise and Low stray light
- High speed MCU, high precision AD, large storage capacity
- Large LCD display (320*240 Dots)
- 1.0nm or variable Bandwidth meet Pharmacopoeia
- Data and Curve can be stored in real-time
- Online software upgrade capability
- Lamps can be turned on/off individually
- Easy to change Pri-aligneds

*Design & specification are subject to change without any prior notice.
*OEM option available

FUNCTION

- Photometric
- Quantitative (Standard Curve)
- WL Scan (Spectrum Scan)
- Time Scan (Kinetics)
- DNA/Protein Test
- Multi-WL Test
- System Utility

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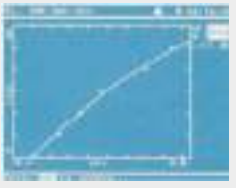
BASIC MODE

To measure the Absorbance and transmittance

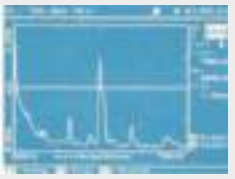


QUANTITATIVE

- Coefficient Method
- Standard Curve Up to 10 Standard sample may be used to establish a curve. Four methods for fitting a curve through the calibration points : Linear fit. Linear through zero, Square and cubic fit.

DNA/PROTEIN TEST

Concentration and DNA purity are quickly and easily calculated: Absorbance rations: 260 nm / 280 nm with optional subtracted absorbance at 320 nm. DNA concentration = 62.9XA260-36.0XA280 Protein concentration = 1552xA260-757.3xA 280



WAVELENGTH SCAN

- The wavelength scan intervals are 0.1,0.2,0.5,1,2,5 nm
- High, Medium and low scan speed are available. They vary from 100 to 3600 nm/min
- Wavelength are scanned from high to low so that the instrument waits at high WL. And it minimizes the degradation of UV sensitive samples.

KINETICS

Abs vs time graphs is displayed on the screen in real time wait time and measurement time up to 12 hours may be entered with time interval of 0.5,1,2,5,10,30 seconds and one min. Post-run manipulation includes re-scalling, curve tracking and selection of the part of the curve required for rate calculation. Rate is calculated using a linear regression algorithm before multiplying be the entered factor

APPLICATIONS

- Medicine/Pharmaceutical Industry
- Environment Monitoring
- Commodity Inspection
- Food Inspection
- Agricultural Chemistry
- Teaching in Colleges & Universities
- Metallurgy
- Geology
- Machine Manufacturing
- Petrochemical Industries
- Water and Waste water Labs
- Food and beverages Labs

Display (Graphic LCD 320x240 Dots)

Soft touch keypad

STANDARD CONFIGURATION

Glass Cell	4 Nos.
Quartz cells	2 Nos.
Instruments Cover	1 No.
Software CD	1 No.
USB Cable	1 No.
Operational Manual	1 No.
Software Manual	1 No.
Software key	1 No.

ACCESSORIES

- Control Unit.
- Cell holder with Peltier System. (It's already pre-loaded into the compartment of the spectrophotometer).
- Control Cable (to connect the Control Unit with the Cell holder with Peltier System).
- Peristaltic pump pipe. (It's already pre-loaded into the pump valve of the Control Unit)
- Power Cord.

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Double Beam Microprocessor UV-VIS Spectrophotometer GBB-2802 PS

(Eight Cell Holder) (Original / Premium with Japanese Technology)

DOUBLE BEAM UV-VIS Spectrophotometer with more accuracy and flexible requirements. The two detectors are used to measure sample and reference respectively and simultaneously for optimizing measurement accuracy. It has wide wavelength range satisfying requirement of various fields, such as biochemical research and industry, pharmaceuticals analysis and production, education,environment, protection, food industry etc.

TECHNICAL SPECIFICATIONS

Optical System	Double Beam (1200 Lines/nm Grating)
Wavelength Range	190-1100nm
Mode	Basic/Quantative/Wavelength Scan/DNA Protein Test/Kinetics/Multi Wavelength Mode
Scanning Speed	Fast/Medium/Low
Band Width	1 nm.
Wavelength Accuracy	±0.3nm
Wavelength Repeatability	0.2nm
Photometric Accuracy	± 0.3 % T
Photometric Repeatability	0.2 % T
Photometric Display Range	0-200% T,-0.3 -3.0A, 0 – 9999 C
Stability	0.001 A/h @500 nm
Baseline Flatness	± 0.001A
Noise	± 0.001A
Stray Light	< 0.05%@220nm&360nm
Data Output Port	USB
Printer Port	Parallel Port
Display	Graphic LCD (320×240 Dots)
Lamps	Deuterium Lamp & Tungsten HalogerLamp
Detector	Silicon Photo diode
Packing Dimension	860×660×465 nm
Weight	26 kg

TECHNICAL SPECIFICATION

- The valid temperature range is from 15℃ to 65℃
- The valid sampling time range is from 30s to 10min,
- The valid peristaltic pump speed range is from 1 to 12
- The sampling speed is about 50ml/min.
- Power supply is 220±22V@50±1Hz or 110±11V@60±1Z

SALIENT FEATURES

- Wide Wavelength range, satisfying requirements various fields.
- Fully automated design, realizing the simplest measurement & satisfying the requirement of pharmacopeia
- Maximum of 9 Wavelength & 8 Sample 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 methods alladd 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 methods etc,meet difference measurement requirement
- Automatic 10 mm 8 - cell holder
- Data Output can be obtained via a printer port and a USB interface
- Parameters and data can be saved for user's convenience.
- PC controller measurement can be achieved for more accurate and flexible requirement

*Design & specification are subject to change without any prior notice.
***OEM option available**

PELTIER SAMPLE HOLDER

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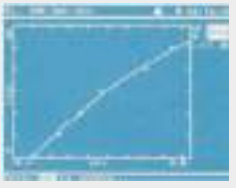
BASIC MODE

To measure the Absorbance and transmittance



QUANTITATIVE

- Coefficient Method
- Standard Curve Up to 10 Standard sample may be used to establish a curve. Four methods for fitting a curve through the calibration points : Linear fit. Linear through zero, Square and cubic fit.

DNA/PROTEIN TEST

Concentration and DNA purity are quickly and easily calculated: Absorbance rations: 260 nm / 280 nm with optional subtracted absorbance at 320 nm. DNA concentration = 62.9XA260-36.0XA280 Protein concentration = 1552xA260-757.3xA 280

WAVELENGTH SCAN

- The wavelength scan intervals are 0.1,0.2,0.5,1,2,5 nm
- High, Medium and low scan speed are available. They vary from 100 to 3600 nm/min
- Wavelength are scanned from high to low so that the instrument waits at high WL. And it minimizes the degradation of UV sensitive samples.

KINETICS

Abs vs time graphs is displayed on the screen in real time wait time and measurement time up to 12 hours may be entered with time interval of 0.5,1,2,5,10,30 seconds and one min. Post-run manipulation includes re-scalling, curve tracking and selection of the part of the curve required for rate calculation. Rate is calculated using a linear regression algorithm before multiplying be the entered factor

APPLICATIONS

- Medicine/Pharmaceutical Industry
- Environment Monitoring
- Commodity Inspection
- Food Inspection
- Agricultural Chemistry
- Teaching in Colleges & Universities
- Metallurgy
- Geology
- Machine Manufacturing
- Petrochemical Industries
- Water and Waste water Labs
- Food and beverages Labs

STANDARD CONFIGURATION

Glass Cell	4 Nos.
Quartz cells	2 Nos.
Instruments Cover	1 No.
Software CD	1 No.
USB Cable	1 No.
Operational Manual	1 No.
Software Manual	1 No.
Software key	1 No.
Flow Cell	1 No.

ACCESSORIES

- Control Unit.
- Cell holder with Peltier System. (It's already pre-loaded into the compartment of the spectrophotometer).
- Control Cable (to connect the Control Unit with the Cell holder with Peltier System).
- Peristaltic pump pipe. (It's already pre-loaded into the pump valve of the Control Unit)
- Power Cord.

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Double Beam Spectrophotometer Xenon Lamp GBB - 3001

TECHNICAL SPECIFICATIONS

Optical System	Double Beam, Grating 1200 lines/mm
Wavelength Range	190 nm-1100nm
Spectral Bandwidth	1 nm
Wavelength Accuracy	±0.1nm@656.1nm, ±0.3nm@all
Wavelength Repeatability	≤0.1nm
Photometric Accuracy	0.2%T(0~100%T),±0.002A(0-0.5A), ±0.004A(0.5-1A)
Photometric Repeatability	≤0.15%T(0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)
Photometric Range	0-200%T, 0.3~3A, 0-9999C (0-9999F)
Stray Light	≤0.03%T@220nm, 360 nm
Stability	±0.0005A/h@500nm
Baseline Flatness	±0.001A
Noise	0.0005A@500nm
Work Mode	T%, Abs, Conc, E
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)
Wavelength Setting	Auto
Display	7" TFT Color Screen
Light Source	Imported Xenon Lamp
Detector	Imported Silicon Photodiode
Cuvette Holder	10mm single hole cell holder
Output	USB drive, USB host, RS232
Power	AC 220V/50Hz or AC 110V/60Hz
Shipping Size	810*660*390mm
Gross Weight	27kg
Standard Accessaries	10mm glass cuvette x 4, 10mm quartz cuvette x2, Power cord, User's Manual, PC software

SALIENT FEATURES

- High quality ashing xenon lamp which can start to test directly without preheating,
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum Scan, DNA/Protein test, Multi-wavelength test, etc.
- In-house massive memory is capable of saving up to 1024M for test data & working curves.
- Supports USB storage, The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage
- Large sample chamber can accommadate 5-100mm cuvettes of all kinds. Provide at Extra cost.
- Extensive accessories are optional, such as auto 8-cell holder, peltier/sipper system, 21 CRR compliant software Provide at Extra cost ect.
- Auto Wavelength Setting
- On-Screen Standard Kinetic Carve Display
- Tungsten/Deuterium Lamp can be Turned ON/OFF Individually to Extend Lifetime

Window Graphic Interface

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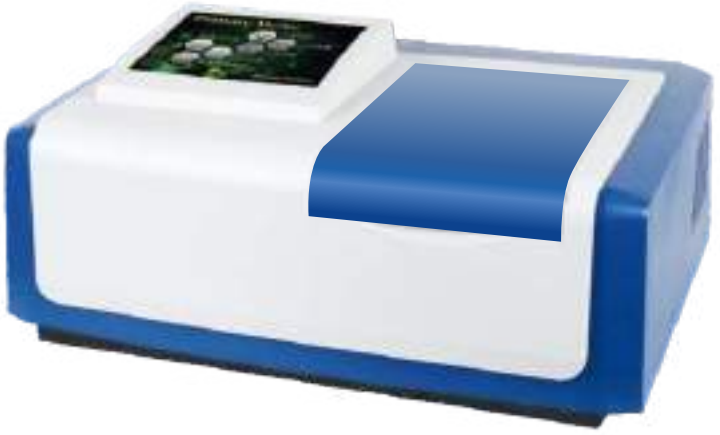
Touch Screen Double Beam UV-VIS Spectrophotometer GBB-2900



- Double beam optical system
- 8 inch color touch-screen
- Automatic zero and full scale adjustment
- Automatic wavelength settings
- Equipped with USB COM port
- UV WIN8 Spectrum Data Processing Software optional
- Thermal plotter Optional

Microprocessor based Double Beam Spectrophotometer

Parameters	Minimum Specification
Display	High Resolution Touch Screen LCD Colour Graphical display with Built-in Window PC
Monochromator	Concave holographic grating with 1200 Ilnes/mm
Wavelength	The Complete Wavelength For Instrument 190-1100
Resolution	0.2nm
Accuracy	± 1nm
Repeatability	± 0.5nm
Spectral Bandwidth	<2nm
Measuring Modes	%Transmittance (% T), Absorbance (ABS). Concentration (CONC) by K-Factor and multi Standards
Operating Modes	Single wavelength : Measuring % T, ABS and CONC., Spectrum time scan, measuring % T and ABS
Source	Tungsten Halogen Lamp
Power	230 V ± 10%, 50Hz
Standard Accessories	10 mm path length four (4) Cuvettes matched with ± 0.3%
Certification	Availability of UL/CE Certifications as per EN 61010-1:2010 safety requirements for electrical equipment for measurement, control and laboratory use General requirements. Conformance to EMC/EMI as per EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use. Availability of Test Reports from Central Govt./NABL Approved/ILAC accredited labto prove conformity to the specification.

MAIN FEATURES

- Double beam UV-VIS spectrophotometers adopt double beam optical system, and blazed holographic gratings. They have outstanding test precision and very competitive prices.
- 8 inch color touch-screen, cutting-edge user interface, powerful functions, and easy operation.
- With powerful functions, the equipment shows great performance in qualitative and quantitative testing, such as
  - Full spectrum scanning
  - Linear regression
  - Detailed spectrum scanning
  - Concentration direct reading
  - Time based kinetics determination
  - Peak/ Valley detecting
  - GOTO
  - Multi-wavelength measurement
- The equipment is designed with sophisticated power protection system, With high capacity of internal memory, it can store testing results, scanned images, regression equations and correction data. Therefore, it follow a fast initialization when power on.
- The instrument can be connected with dedicated printer, which can print testing results, or draw curve from spectral scanning, fixed wavelength time-based scanning, and linear regression.
- With USB COM port the device can be connected to a PC, which can not only enhance the performance in data testing and spectrum scanning, but also expand the memory to save more testing results.

STANDARD ACCESSORIES

- ✓ Operation manual 1
- ✓ Quartz Cuvette 1cm 2pcs
- ✓ Power Cable 1
- ✓ Fuse 2pcs

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Advanced Single Beam Microprocessor UV-VIS Spectrophotometer With Scanning Software

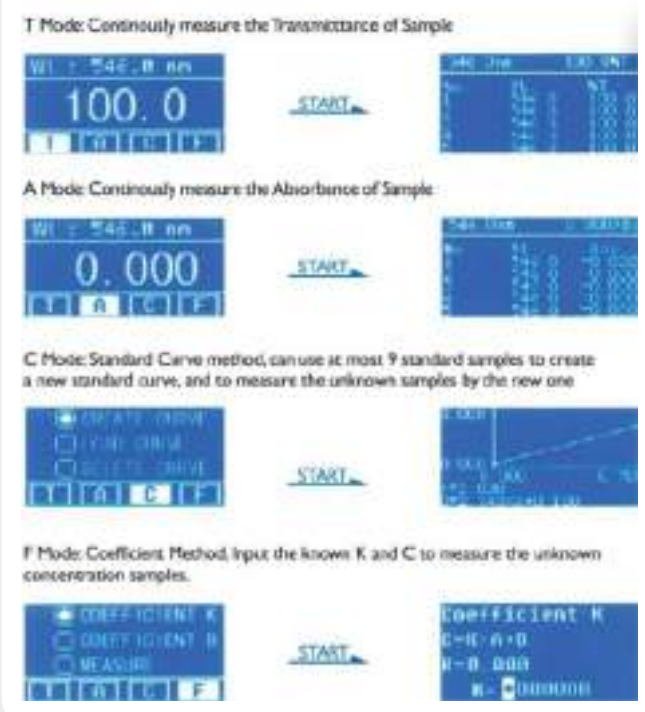
(Original / Premium with Japanese Technology)

GBB-295

TECHNICAL SPECIFICATIONS

Optional System	Single - Beam, Grating
Wavelength Range	190 - 1000nm
Bandwidth	2nm
Wavelength Accuracy	±1nm
Wavelength Repeatability	0.5nm
Wavelength Setting	Auto
Photometric Accuracy	±0.5%T
Photometric Repeatability	0.3%T
Photometric Range	-0.3-3A,0-200%T
Stray Light	<0.3%T
Stability	±0.002A/h @500nm
Display	128 * 64 Dots LCD
Detector	Silicon Photodiode
Standard Cell Holder	4-position 10 - 100 mm cell changer
Light Source	Tungsten & Deuterium lamp
Output	USB port & Perallel port (printer)
Power Requirements	AC 85 ~ 250V
Dimension	420x280x180mm
Weight	20Kg

*Design & Specification are subject to change without any prior notice.
*OEM option available.



FEATURES

- Large LCD screen (128*64) Dots
- Can display and save 50 groups of data, 5 groups per screen
- Data can be restored after a sudden power cut
- Auto setting Wavelength
- Tungsten lamp & deuterium lamp can be turned on/off individually to extend lifetime
- Automatic WL. Calibration and dark current getting. With Scanning

APPLICATIONS

- Medicine/Pharmaceutical Industry
- Environmental Monitoring
- Commodity Inspection
- Food Inspection
- Agricultural Chemistry
- Teaching in Colleges & Universities
- Mettallurgy
- Geology
- Machine Manufacturing
- Petrochemical Industries
- Water and Waste Water Labs
- Food and Beverage Labs

UV-VIS Spectrophotometer Single Beam 295 Models are designed for reliable continuous operation. It is easy to use, throughly reliable and above all low cost.

STANDARD CONFIGURATION

Main Set	1 No.
USB Cable	1 No.
Accessory kit. including a 4 glass cell (10 mm)	1 No.
2 Quartz Cell (10 mm)	1 No.
Operating Manual Software Manual	1 No.
Dust Cover	1 No.
Software CD	1 No.
Power Cable	1 No.

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Microprocessor UV-VIS Double Beam Spectrophotometer GBB-2704

Double Beam UV/VIS Spectrophotometer

Spectrophotometer is double beam optical system can restrain drift, compensates for blank changes, Suitable for long time test. It is simple to fit a curve by using your standard with single or dual WL. It have wavelength scanning function using PC software. It is widely used in colleges and QC labs.

TECHNICAL SPECIFICATIONS

Wavelength Range	190-1100nm
Spectral Bandwidth	1nm
Optical System	Double Beam, Blazed Holographic Grating (1200 lines/mm)
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0~200%T, -4~4A, 0~9999C
Photometric Accuracy	±0.002 A (0~0.5A), ±0.003A (0.5~1A), ±0.3%T (0~100%T)
Photometric Repeatability	≤0.001 A (0~0.5A), ≤0.002A (0.5~1A), ≤0.2%T (0~100%T)
Stray Light	≤0.05%T(220/360nm)
Scan Speed	High, Medium, Low. Max.2000nm/minute
Baseline Flatness	±0.0015A
Stability	±0.001A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)
Sample Compartment	10mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display	Graphic LCD (320*240 Dots)
Keypad	30-key Alphanumeric Membrance Keypad
Output Port	USB Port
Printer	Mini Serial Printer; PC Printer
PC Software	UV Analyst Scanning Software
Power Requirements	AC 90-250V, 50/60Hz
Dimension	545x468x245mm
Weight	18kg

SALIENT FEATURES

- Double beam optical system
- Low noise and Low stray light
- Large LCD display, can display curve
- High quality grating, detector and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

FUNCTION

- Photometric: T%, Abs
- Quantitative: Standard Curve
- System Utility
- WL Scan (Spectrum Scan)
- Time Scan (Kinetics)
- DNA/Protein Test

*Design & specification are subject to change without any prior notice.
*OEM option available

Perfection in Laboratory Science

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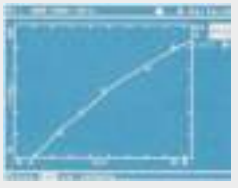
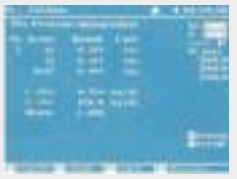
BASIC MODE

To measure the Absorbance and transmittance



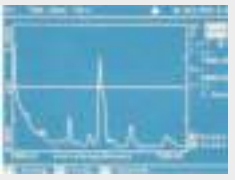
QUANTITATIVE

- Coefficient Method
- Standard Curve Up to 10 Standard sample may be used to establish a curve. Four methods for fitting a curve through the calibration points : Linear fit. Linear through zero, Square and cubic fit.



DNA/PROTEIN TEST

Concentration and DNA purity are quickly and easily calculated: Absorbance rations: 260 nm / 280 nm with optional subtracted absorbance at 320 nm. DNA concentration = 62.9XA260-36.0XA280 Protein concentration = 1552xA260-757.3xA 280



WAVELENGTH SCAN

- The wavelength scan intervals are 0.1,0.2,0.5,1,2,5 nm
- High, Medium and low scan speed are available. They vary from 100 to 3600 nm/min
- Wavelength are scanned from high to low so that the instrument waits at high WL. And it minimizes the degradation of UV sensitive samples.

KINETICS

Abs vs time graphs is displayed on the screen in real time wait time and measurement time up to 12 hours may be entered with time interval of 0.5,1,2,5,10,30 seconds and one min. Post-run manipulation includes re-scalling, curve tracking and selection of the part of the curve required for rate calculation. Rate is calculated using a linear regression algorithm before multiplying be the entered factor

APPLICATIONS

- Medicine/Pharmaceutical Industry
- Environment Monitoring
- Commodity Inspection
- Food Inspection
- Agricultural Chemistry
- Teaching in Colleges & Universities
- Metallurgy
- Geology
- Machine Manufacturing
- Petrochemical Industries
- Water and Waste water Labs
- Food and beverages Labs

Display (Graphic LCD 320x240 Dots)

Soft touch keypad

STANDARD CONFIGURATION

Glass Cell	4 Nos.
Quartz cells	2 Nos.
Instruments Cover	1 No.
Software CD	1 No.
USB Cable	1 No.
Operational Manual	1 No.
Software Manual	1 No.
Software key	1 No.

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Microprocessor UV-VIS Double Beam Spectrophotometer With Bluetooth GBB-2702

Double Beam UV/VIS Spectrophotometer

Spectrophotometer is double beam optical system can restrain drift, compensates for blank changes, Suitable for long time test. It is simple to fit a curve by using your standard with single or dual WL. It have wavelength scanning function using PC software. It is widely used in colleges and QC labs.

TECHNICAL SPECIFICATIONS

Wavelength Range	190-1100nm
Spectral Bandwidth	1nm
Optical System	Double Beam, Blazed Holographic Grating (1200 lines/mm)
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0~200%T, -4~4A, 0~9999C
Photometric Accuracy	±0.002 A (0~0.5A), ±0.003A (0.5~1A), ±0.3%T (0~100%T)
Photometric Repeatability	≤0.001 A (0~0.5A), ≤0.002A (0.5~1A), ≤0.2%T (0~100%T)
Stray Light	≤0.05%T(220/360nm)
Scan Speed	High, Medium, Low. Max.2000nm/minute
Baseline Flatness	±0.0015A
Stability	±0.001A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)
Sample Compartment	10mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Output Port	USB Port
Printer	Mini Serial Printer; PC Printer
PC Software	UV Analyst Scanning Software
Power Requirements	AC 90-250V, 50/60Hz
Dimension	545x468x245mm
Weight	18kg

SALIENT FEATURES

- Double beam optical system
- Low noise and Low stray light
- High quality grating, detector and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

FUNCTION

- Photometric: T%, Abs
- Quantitative: Standard Curve
- System Utility
- WL Scan (Spectrum Scan)
- Time Scan (Kinetics)
- DNA/Protein Test

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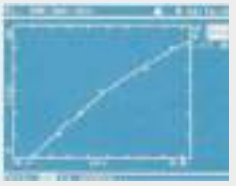
BASIC MODE

To measure the Absorbance and transmittance



QUANTITATIVE

- Coefficient Method
- Standard Curve Up to 10 Standard sample may be used to establish a curve. Four methods for fitting a curve through the calibration points : Linear fit. Linear through zero, Square and cubic fit.

DNA/PROTEIN TEST

Concentration and DNA purity are quickly and easily calculated: Absorbance rations: 260 nm / 280 nm with optional subtracted absorbance at 320 nm. DNA concentration = 62.9XA260-36.0XA280 Protein concentration = 1552xA260-757.3xA 280

WAVELENGTH SCAN

- The wavelength scan intervals are 0.1,0.2,0.5,1,2,5 nm
- High, Medium and low scan speed are available. They vary from 100 to 3600 nm/min
- Wavelength are scanned from high to low so that the instrument waits at high WL. And it minimizes the degradation of UV sensitive samples.

KINETICS

Abs vs time graphs is displayed on the screen in real time wait time and measurement time up to 12 hours may be entered with time interval of 0.5,1,2,5,10,30 seconds and one min. Post-run manipulation includes re-scalling, curve tracking and selection of the part of the curve required for rate calculation. Rate is calculated using a linear regression algorithm before multiplying be the entered factor

APPLICATIONS

- Medicine/Pharmaceutical Industry
- Environment Monitoring
- Commodity Inspection
- Food Inspection
- Agricultural Chemistry
- Teaching in Colleges & Universities
- Metallurgy
- Geology
- Machine Manufacturing
- Petrochemical Industries
- Water and Waste water Labs
- Food and beverages Labs

STANDARD CONFIGURATION

✓ Glass Cell	4 Nos.
✓ Quartz cells	2 Nos.
✓ Instruments Cover	1 No.
✓ Software CD	1 No.
✓ USB Cable	1 No.
✓ Operational Manual	1 No.
✓ Software Manual	1 No.
✓ Software key	1 No.

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Microprocessor Single Beam Visible Spectrophotometer With Software-GBB-730

TECHNICAL SPECIFICATIONS

Optical System	Single beam, Grating 1200 lines/mm
Wavelength Range	325-1000nm
Bandwidth	2nm
Wavelength Accuracy	±1nm
Wavelength Repeatability	±0.5nm
Wavelength Setting	Auto
Photometric Accuracy	±0.5%T
Photometric Repeatability	±0.3%T
Photometric Range	-0.3-3A,0-200%T
Stray Light	≤0.3%T
Stability	± 0.002A/h @ 500nm
Display	LCD
Detector	Silicon Photodiode
Standard Cell Holder	4-position 50mm cell holder
Light Source	Tungsten Lamp
Output	USB Port & Parallel Port (Printer)
Power Supply	AC 220V/50Hz
Dimension (LxWxH) mm	420x280x180
Weight	10kg

STANDARD ACCESSORIES

- ✓ **Spectrophotometer 1 pc**
- ✓ **10mm Glass Cuvette 4 pcs**
- ✓ **Power Cord 1 pc**
- ✓ **Instruction Manual 1 pc**
- ✓ **Software yes**
- ✓ **Dust Cover 1 pc**

SALIENT FEATURES

Multiple Results Readout

- Can display wavelength, absorption and transmittance with 5 results per screen. It also has a memory store of up to 200 results.
- Memory store upto 200 results

Auto Setting Wavelength

- Users set wavelength automatically through arrow keys to avoid operation errors.

2.5' LCD Screen

- Equipped with a 2.5 LCD screen to give a clear display of standard curves and groups of results.

APPLICATIONS

- **Pharmaceutical Industry**
- **Environment Monitoring**
- **Commodity Inspection**
- **Food Inspection**
- **Agricultural Chemistry**
- **Teaching in Colleges & Universities**
- **Metallurgy**
- **Geology**
- **Machine Manufacturing**
- **Petrochemical Industries**
- **Water and waste water Labs**
- **Food and Beverages Labs**

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Single Beam Microprocessor UV-VIS Spectrophotometer with Peltier & Sipper system

GBB-296

SINGLE BEAM UV-VIS Spectrophotometer with more accuracy and flexible requirements. The two detectors are used to measure sample and reference respectively and simultaneously for optimizing measurement accuracy. It has wide wavelength range satisfying requirement of various fields, such as biochemical research and industry, pharmaceuticals analysis and production, education, environment, protection, food industry etc.

TECHNICAL SPECIFICATIONS

Optical System	Double Beam (1200 Lines/nm Grating)
Wavelength Range	190-1100nm
Mode	Basic/Quantative/Wavelength Scan/DNA Protein Test/Kinetics/Multi Wavelength Mode
Scanning Speed	Fast/Medium/Low
Band Width	1 nm.
Wavelength Accuracy	±0.3nm
Wavelength Repeatability	0.2nm
Photometric Accuracy	± 0.3 % T
Photometric Repeatability	0.2 % T
Photometric Display Range	0-200% T, -0.3 -3.0A, 0 – 9999 C
Stability	0.001 A/h @500 nm
Baseline Flatness	± 0.001A
Noise	± 0.001A
Stray Light	< 0.05%@220nm&360nm
Data Output Port	USB
Printer Port	Parallet Port
Display	Graphic LCD (320×240 Dots)
Lamps	Deuterium Lamp & Tungsten HalogerLamp
Detector	Silicon Photo diode
Packing Dimension	860×660×465 nm
Weight	26 kg

TECHNICAL SPECIFICATION

- The valid temperature range is from 15ºC to 65ºC
- The valid sampling time range is from 30s to 10min,
- The valid peristaltic pump speed range is from 1 to 12
- The sampling speed is about 50ml/min.
- Power supply is 220±22V@50±1Hz or 110±11V@60±1Z

SALIENT FEATURES

- Wide Wavelength range, satisfying requirements various fields.
- Fully automated design, realizing the simplest measurement & satisfying the requirement of pharmacopeia
- Maximum of 9 Wavelength & 8 Sample 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 methods alladd 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 methods etc,meet difference measurement requirement
- Automatic 10 mm 8 - cell holder
- Data Output can be obtained via a printer port and a USB interface
- Parameters and data can be saved for user's convenience.
- PC controller measurement can be achieved for more accurate and flexible requirement

*Design & specification are subject to change without any prior notice.
*OEM option available

Display (Graphic LCD 320 x 240 Dots)

Soft touch keypad

Big Sample Room

PELTIER SAMPLE HOLDER

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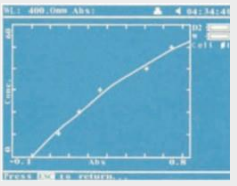
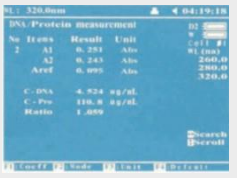
BASIC MODE

To measure the Absorbance and transmittance



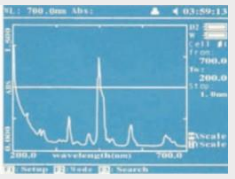
QUANTITATIVE

- Coefficient Method
- Standard Curve Up to 10 Standard sample may be used to establish a curve. Four methods for fitting a curve through the calibration points : Linear fit. Linear through zero, Square and cubic fit.



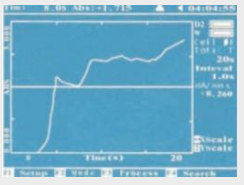
DNA/PROTEIN TEST

Concentration and DNA purity are quickly and easily calculated: Absorbance rations: 260 nm / 280 nm with optional subtracted absorbance at 320 nm. DNA concentration = 62.9XA260-36.0XA280 Protein concentration = 1552xA260-757.3xA 280



WAVELENGTH SCAN

- The wavelength scan intervals are 0.1,0.2,0.5,1,2,5 nm
- High, Medium and low scan speed are available. They vary from 100 to 3600 nm/min
- Wavelength are scanned from high to low so that the instrument waits at high WL. And it minimizes the degradation of UV sensitive samples.



KINETICS

Abs vs time graphs is displayed on the screen in real time wait time and measurement time up to 12 hours may be entered with time interval of 0.5,1,2,5,10,30 seconds and one min. Post-run manipulation includes re-scalling, curve tracking and selection of the part of the curve required for rate calculation. Rate is calculated using a linear regression algorithm before multiplying be the entered factor

APPLICATIONS

- Medicine/Pharmaceutical Industry
- Environment Monitoring
- Commodity Inspection
- Food Inspection
- Agricultural Chemistry
- Teaching in Colleges & Universities
- Metallurgy
- Geology
- Machine Manufacturing
- Petrochemical Industries
- Water and Waste water Labs
- Food and beverages Labs

STANDARD CONFIGURATION

Glass Cell	4 Nos.
Quartz cells	2 Nos.
Instruments Cover	1 No.
Software CD	1 No.
USB Cable	1 No.
Operational Manual	1 No.
Software Manual	1 No.
Software key	1 No.
Flow Cell	1 No.

ACCESSORIES

- Control Unit.
- Cell holder with Peltier System. (It's already pre-loaded into the compartment of the spectrophotometer).
- Control Cable (to connect the Control Unit with the Cell holder with Peltier System).
- Peristaltic pump pipe. (It's already pre-loaded into the pump valve of the Control Unit)
- Power Cord.

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SCIENTIFIC INSTRUMENTS PRIVATE LIMITED

Touch Screenn Double Beam UV-VIS Spectrophotometer With 100mm Cell Holder

Product Details

The double beam UV-Vis spectrophotometer applies a new optical bench, ARM chip control and data processing, 8-inch color touch-screen which displays menu and spectral curve and can analyze spectrum test data. It's quite easy for user and computer interaction. The instrument can perform following operations, including photometry, automatic scanning spectral measurement, quantitative analysis, dynamic analysis, and multi-wavelength measurement.

The instrument serves as the basic equipment for quality control, technical evaluation and scientific research, and can be widely used in susceptibility testing, medicine and health, biochemistry, environmental monitoring, commodity inspection, petrochemical and other fields.

Main Features

- New optical platform, enabling the host machine with excellent optical properties, metering performance, low stray light and noise, high metering accuracy and stability.
- Unique system of deuterium and tungsten lamp installation, facilitating the light source to automatically switch to the best position, and allowing users to operate the instrument, replace the light derivative spectra, spectra printing and storage and data analysis. source and maintain the instrument more conveniently, accurately and safely.
- Sophisticated hardware and software design, empowering the instrument with powerful spectral data processing and storage capabilities, and performing following functions,including automatic scanning of measured spectrum, multi-wavelength (1-3 λ) measurement, kinetic measurement, 1-3 curve fitting, 1- 4
- 8-inch color touch-screen, with a good user-machine interface, easy-to- operate.
- USB communication port.

Standrad Accessories

- Operation manual 1
- Glass cuvette 1cm 4pcs
- Quartz cuvette 1cm 2pcs
- Power cable 1
- Fuse 2pcs
- Cuvette holder 100mm
- UV WIN8 Spectrum data processing software

Cuvette holder 100mm

Hamamatsu D2 Lamp

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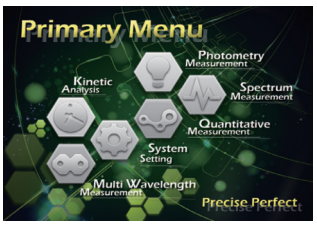
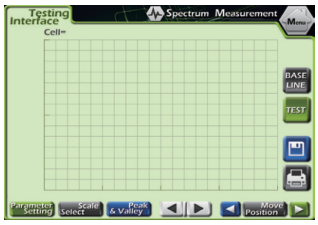
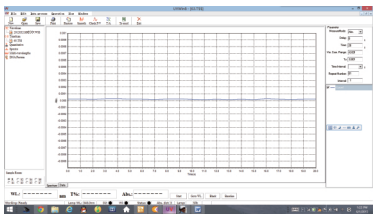
Photometry	Double Beam
Monochromator Type	Czerny-Turner
Cell Holder	**100mm Cell Holder**
Grating	1600 lines/mm
Detector	Silicon Photocell
Spectrum Bandwidth	1nm
Wavelength Setting	8-inch color touch-screen
Wavelength Range	190-1100nm
Wavelength Accuracy	±0.3nmĹ actual test ±0.2nm Í
Wavelength Repeatability	≤0.1nm
Scanning Speed	Fast-Medium-Slow
Stray Light	≤0.02%T(at 220nm NaI, 360nm NaNo2)
Photometric Range	0.0-200.0%T,-0.301-4.000A, 0.000-9999C
Photometric Accuracy	±0.3% T, ±0.002 Abs (0-0.5A), ±0.004 Abs (0.5-1A)
Photometric Repeatability	≤0.15% T, 0.001 Abs (0-0.5A), 0.002 Abs (0.5-1A)
Baseline	≤±0.0008 A(200-1090nm)
Noise	100%Ĺ TÍ noise≤0.1%(T),0%Ĺ TÍ noise≤0.02%(T)
Drifting	≤0.004 Abs/h (250nm and 500nm after 2h warm up)
COM Port	USB
Light Source	**Hamamatsu D2 lamp, Osram halogen tungsten lamp**
Power	AC220V±22V 50Hz±1Hz, 200W
Packaging Size	730mm X 630mm X 450mm, 42.5kg







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*Design & specification are subject to change without any prior notice.
*OEM option available

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