Спектрофотометры SP-V1000, SP-UV1000, SP-V1100, SP-UV1100, SP-UV2101 UV-Vis, SP-UV2102 UV-Vis, SP-UV3101 UV-Vis, SP-UV3102 UV-Vis, SP-XUV5101 UV-Vis, SP-UV5102 UV-Vis

Технические характеристики

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SP-V1000 Spectrophotometer



- Saves up to 200 group data & 200 standard curves
- Data can be restored even after a sudden power failure
- Auto setting of wavelength to calibrate the system
- Wavelength range from 190 to 1100nm
- Automatic Switching between Tungsten & Deuterium lamps
- System is fully equipped and capable of executing all functions in stand-alone mode
- Large sample for accommodate 5–100mm path length cuvettes with optional holders
- Optional application software 'Wave Professional' provides computer control, and other functions such as spectrum scan, time scan(kinetics), multiwavelength scanning & Nucleic Acid / Protein measurement. (SP-V1100/SP-UV1100)
- Wide range of accessories are available

Model: SP-V1000

Light Source

PRODUCT PARAMETERS

Optical System
Single Beam

Tungsten Lamp(Japan HYBEC)

Spectral Bandwidth
4.0nm

Wavelength Range 325-1000nm

Wavelength Accuracy

Wavelength Repeatability ≤1nm

Photometric Range

Photometric Accuracy ±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T

Photometric Repeatability ≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T

Stability

≤0.002 A/h @ 500 nm (after preheat 2 hours)

Stray Light

≤0.2%T @ 360nm Sample Compartment

Display

Output Dot Matrix LCD

USB Port & Parallel Port (Printer)

Power Requirements

110/220VAC, 50/60Hz, 80W **Dimension[L×W×H]**

475×360×225mm

±2nm

11kg

-0.3 - 3.0 A, 0 - 200%T

4-position, 10mm pathlength cuvette

Weight

SP-UV1000 Spectrophotometer



- Saves up to 200 group data & 200 standard curves
- Data can be restored even after a sudden power failure
- Auto setting of wavelength to calibrate the system
- Wavelength range from 190 to 1100nm
- Automatic Switching between Tungsten & Deuterium lamps
- System is fully equipped and capable of executing all functions in

stand-alone mode

- Large sample for accommodate 5–100mm path length cuvettes with optional holders
- Optional application software 'Wave Professional' provides computer control, and other functions such as spectrum scan, time scan(kinetics), multiwavelength scanning & Nucleic Acid / Protein measurement. (SP-V1100/SP-UV1100)
- Wide range of accessories are available

Model: SP-UV1000

Spectral Bandwidth

Wavelength Range

PRODUCT PARAMETERS

Optical System
Single Beam

Light Source

Tungsten Lamp(Japan HYBEC) | Deuterium Lamp(Milaras)

4.0nm

200-1000nm

Wavelength Accuracy

Wavelength Repeatability ≤1nm

Photometric Range

Photometric Accuracy ±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T

Photometric Repeatability ≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T

Stability

≤0.002 A/h @ 500 nm (after preheat 2 hours)

Stray Light

Sample Compartment

Display

Output

USB Port & Parallel Port (Printer)

Power Requirements

110/220VAC, 50/60Hz, 120W Dimension[L×W×H]

475×360×225mm

≤0.2%T @ 360nm

Dot Matrix LCD

4-position, 10mm pathlength cuvette

Weight

14.6kg

±2nm

-0.3 - 3.0 A, 0 - 200%T

SP-V1100 Spectrophotometer



- Saves up to 200 group data & 200 standard curves
- Data can be restored even after a sudden power failure
- Auto setting of wavelength to calibrate the system
- Wavelength range from 190 to 1100nm
- Automatic Switching between Tungsten & Deuterium lamps
- System is fully equipped and capable of executing all functions in

±0.5nm

-0.3 - 3.0 A, 0 - 200%T

≤0.05%T @ 360nm

11kg

≤0.002 A/h @ 500 nm (after preheat 2 hours)

stand-alone mode

- Large sample for accommodate 5–100mm path length cuvettes with optional holders
- Optional application software 'Wave Professional' provides computer control, and other functions such as spectrum scan, time scan(kinetics), multiwavelength scanning & Nucleic Acid / Protein measurement. (SP-V1100/SP-UV1100)
- Wide range of accessories are available

Model: SP-V1100

Light Source

Output

Power Requirements

Dimension[L×W×H]

Wavelength Range

PRODUCT PARAMETERS

Optical System
Single Beam

Tungsten Lamp(Japan HYBEC)

Spectral Bandwidth 2.0nm

320-1100nm

Wavelength Accuracy

Wavelength Repeatability ≤0.3nm

Photometric Range

Photometric Accuracy ±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%T @ 100%T

Photometric Repeatability ≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T

Stability

Stray Light

Sample Compartment
4-position, 10mm pathlength cuvette

Display

Dot Matrix LCD

USB Port & Parallel Port(Printer)

110/220VAC, 50/60Hz, 80W

475×360×225mm

Weight



SP-UV1100 Spectrophotometer

- Saves up to 200 group data & 200 standard curves
- Data can be restored even after a sudden power failure
- Auto setting of wavelength to calibrate the system
- Wavelength range from 190 to 1100nm
- Automatic Switching between Tungsten & Deuterium lamps
- System is fully equipped and capable of executing all functions in stand-alone mode
- Large sample for accommodate 5–100mm path length cuvettes with optional holders
- Optional application software 'Wave Professional' provides computer control, and other functions such as spectrum scan, time scan(kinetics), multiwavelength scanning & Nucleic Acid / Protein measurement. (SP-V1100/SP-UV1100)
- Wide range of accessories are available

Model: SP-UV1100

Optical System

Photometric Accuracy

Sample Compartment

Dimension[L×W×H]

Stability

Display

Weight

Stray Light

PRODUCT PARAMETERS

I NODUCI I ANAMETERS

Light Source Single Beam

Tungsten Lamp(Japan HYBEC) | Deuterium Lamp(Milaras)

Spectral Bandwidth

2.0nm

±0.5nm

≤0.3nm

14.6kg

Wavelength Range

Wavelength Accuracy

Wavelength Repeatability

Photometric Range -0.3 - 3.0 A, 0 - 200%T

±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%T @ 100%T

Photometric Repeatability ≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T

≤0.002 A/h @ 500 nm (after preheat 2 hours)

≤0.05%T @ 220 & 360nm

4-position, 10mm pathlength cuvette

Output Dot Matrix LCD

USB Port & Parallel Port (Printer)

Power Requirements

110/220VAC, 50/60Hz, 120W

475×360×225mm

-

SP-UV2101 UV-Vis Spectrophotometer



The instrument is equipped with a 10.1-inch large color touch screen (1024*600), designed with an easy-to-use graphical user interface.

- The main unit independently performs photometric measurement, quantitative analysis, spectrum scanning, kinetics, DNA/protein testing, and multi-wavelength testing.
- When controlled via PC software, it provides richer extension applications. The software adheres to GLP/GMP laboratory standards and includes comprehensive user management, log recording, data storage traceability, and report output functions.
- It boasts powerful storage capabilities, able to save various types of data and spectra, equipped with a standard USB interface for direct data exportation for editing, measurement, and storage. The instrument also features a power-off data retention function.
- The unique design provides excellent optical performance, utilizing a holographic grating monochromator and a digital photodiode detector, ensuring low stray light, low noise, and high photometric accuracy and stability.
- A new wavelength drive mechanism greatly improves wavelength accuracy and repeatability while significantly reducing operational noise.
- It supports a wide range of optional accessories, including a wireless Bluetooth printer, automatic cell holder, film sample holder, tube cell holder, thermostatic bath holder, optical integrating sphere, reflectance attachment, variable path length sample holder, and variable angle solid sample holder, among other specialized accessories.

Model: SP-UV2101

PRODUCT PARAMETERS

Optical System

Light Source

Single Beam

Tungsten Lamp(Japan HYBEC) | Deuterium Lamp (Milaras)

Spectral Bandwidth

1.0nm

Wavelength Range

190~1100nm

Wavelength Accuracy

±0.1nm (at 656.1nm), ±0.3nm full range

Scanning Speed

High | Medium | Slow

Wavelength Repeatability

≤0.1nm

Photometric Range

-0.3~3A,0~9999C(0~9999F)

Photometric Accuracy

 $\pm 0.0015A(0 \sim 0.5A) \pm 0.002A(0.5A \sim 1A)$

Photometric Repeatability

 $\pm 0.001 A (0 \sim 0.5 A) \pm 0.0015 A (0.5 A \sim 1 A)$

Stability

Stray Light

≤0.001 A/h / 500 nm(After 1 hour of preheating)

Sample Compartment

≤0.03%T @ 220,360nm

Display

4 Cells, 10 mm

Output

10.1-inch large color touch screen(1024*600)

Power Requirements

USB Port Printer Port

Dimension[L×W×H]

110/220V,50/60Hz,120W

Weight

20KG

570*440*210mm

SP-UV2102 UV-Vis Spectrophotometer



The instrument is equipped with a 10.1-inch large color touch screen (1024*600), designed with an easy-to-use graphical user interface.

- The main unit independently performs photometric measurement, quantitative analysis, spectrum scanning, kinetics, DNA/protein testing, and multi-wavelength testing.
- When controlled via PC software, it provides richer extension applications. The software adheres to GLP/GMP laboratory standards and includes comprehensive user management, log recording, data storage traceability, and report output functions.
- It boasts powerful storage capabilities, able to save various types of data and spectra, equipped with a standard USB interface for direct data

2.0nm

4 Cells, 10mm

USB Port Printer Port

±0.1nm (at 656.1nm), ±0.3nm full range

exportation for editing, measurement, and storage. The instrument also features a power-off data retention function.

- The unique design provides excellent optical performance, utilizing a holographic grating monochromator and a digital photodiode detector, ensuring low stray light, low noise, and high photometric accuracy and stability.
- A new wavelength drive mechanism greatly improves wavelength accuracy and repeatability while significantly reducing operational noise.
- It supports a wide range of optional accessories, including a wireless Bluetooth printer, automatic cell holder, film sample holder, tube cell holder, thermostatic bath holder, optical integrating sphere, reflectance attachment, variable path length sample holder, and variable angle solid sample holder, among other specialized accessories.
 Model: SP-UV2102

PRODUCT PARAMETERS

Optical System

Scanning Speed

Photometric Range

Stability

Photometric Accuracy

Photometric Repeatability

Wavelength Repeatability

Light Source Single Beam

Tungsten Lamp(Japan HYBEC) | Deuterium Lamp (Milaras)

Spectral Bandwidth

Wavelength Range
190∼1100nm

Wavelength Accuracy

High | Medium | Slow

______≤0.1nm

-0.3~3A.0~9999C(0~9999F)

 $\pm 0.002A(0 \sim 0.5A) \pm 0.003A(0.5A \sim 1A)$

 $\pm 0.001A(0 \sim 0.5A) \pm 0.0015A(0.5A \sim 1A)$

≤0.001 A/h / 500 nm(After 1 hour of preheating)

Stray Light

≤0.05%T @ 220,360nm Sample Compartment

Display

10.1-inch large color touch screen(1024*600)

Output

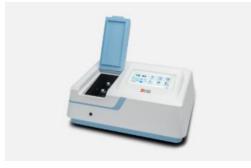
Power Requirements

110/220V,50/60Hz,120W **Dimension[L×W×H]**

570*440*210mm Weight

20KG

SP-UV3101 UV-Vis Spectrophotometer



The instrument is equipped with a 10.1-inch large color touch screen (1024*600), designed with an easy-to-use graphical user interface.

- The main unit independently performs photometric measurement, quantitative analysis, spectrum scanning, kinetics, DNA/protein testing, and multi-wavelength testing.
- When controlled via PC software, it provides richer extension applications. The software adheres to GLP/GMP laboratory standards and includes comprehensive user management, log recording, data storage traceability, and report output functions.

≤0.1nm

 $\pm 0.0015A(0 \sim 0.5A) \pm 0.002A(0.5A \sim 1A)$

Fixed cuvette holder 1cm

- It boasts powerful storage capabilities, able to save various types of data and spectra, equipped with a standard USB interface for direct data exportation for editing, measurement, and storage. The instrument also features a power-off data retention function.
- The unique design provides excellent optical performance, utilizing a holographic grating monochromator and a digital photodiode detector, ensuring low stray light, low noise, and high photometric accuracy and stability.
- A new wavelength drive mechanism greatly improves wavelength accuracy and repeatability while significantly reducing operational noise.
- It supports a wide range of optional accessories, including a wireless Bluetooth printer, automatic cell holder, film sample holder, tube cell holder, thermostatic bath holder, optical integrating sphere, reflectance attachment, variable path length sample holder, and variable angle solid sample holder, among other specialized accessories.

Model: SP-UV3101

Light Source

PRODUCT PARAMETERS

Optical System

Double Beam

Tungsten Lamp(Japan HYBEC) | Deuterium Lamp (Milaras)

Spectral Bandwidth

Wavelength Range

Wavelength Accuracy 190∼1100nm

±0.1nm (at 656.1nm), ±0.3nm full range Scanning Speed

High | Medium | Slow Wavelength Repeatability

Photometric Range -0.3~3A,0~9999C(0~9999F)

Photometric Accuracy

Photometric Repeatability

 $\pm 0.001 \text{A} (0 \sim 0.5 \text{A}) \pm 0.0015 \text{A} (0.5 \text{A} \sim 1 \text{A})$ Stability

≤0.001 A/h/500nm(After 1 hour of preheating)

Stray Light

≤0.02%T @ 220,360nm Sample Compartment

Display

10.1-inch large color touch screen(1024*600)

Output

Power Requirements

USB Port Printer Port

110/220V,50/60Hz,120W Dimension[L×W×H]

570*440*210mm

Weight 20KG

SP-UV3102 UV-Vis Spectrophotometer



The instrument is equipped with a 10.1-inch large color touch screen (1024*600), designed with an easy-to-use graphical user interface.

- The main unit independently performs photometric measurement, quantitative analysis, spectrum scanning, kinetics, DNA/protein testing, and multi-wavelength testing.
- When controlled via PC software, it provides richer extension applications. The software adheres to GLP/GMP laboratory standards and includes comprehensive user management, log recording, data storage

190~1100nm

≤0.1nm

traceability, and report output functions.

- It boasts powerful storage capabilities, able to save various types of data and spectra, equipped with a standard USB interface for direct data exportation for editing, measurement, and storage. The instrument also features a power-off data retention function.
- The unique design provides excellent optical performance, utilizing a holographic grating monochromator and a digital photodiode detector, ensuring low stray light, low noise, and high photometric accuracy and stability.
- A new wavelength drive mechanism greatly improves wavelength accuracy and repeatability while significantly reducing operational noise.
- It supports a wide range of optional accessories, including a wireless Bluetooth printer, automatic cell holder, film sample holder, tube cell holder, thermostatic bath holder, optical integrating sphere, reflectance attachment, variable path length sample holder, and variable angle solid sample holder, among other specialized accessories.

Model: SP-UV3102

Spectral Bandwidth

Wavelength Range

Stability

Stray Light

Sample Compartment

PRODUCT PARAMETERS

Optical System

Double Beam

Light Source

Tungsten Lamp(Japan HYBEC) | Deuterium Lamp (Milaras)

2.0nm

Wavelength Accuracy

±0.1nm (at 656.1nm), ±0.3nm full range Scanning Speed

High | Medium | Slow Wavelength Repeatability

Photometric Range

-0.3~3A,0~9999C(0~9999F)

Photometric Accuracy

 $\pm 0.002 A (0 \sim 0.5 A) \pm 0.003 A (0.5 A \sim 1 A)$ Photometric Repeatability

 $\pm 0.001A(0 \sim 0.5A) \pm 0.0015A(0.5A \sim 1A)$

≤0.001 A/h/500nm(After 1 hour of preheating)

≤0.03%T @ 220,360nm

Fixed cuvette holder 1cm

Display

10.1-inch large color touch screen(1024*600)

Output

Power Requirements

USB Port Printer Port

110/220V,50/60Hz,120W **Dimension[L×W×H]**

570*440*210mm

Weight 20KG



SP-XUV5101 UV-Vis Spectrophotometer

The instrument is equipped with a 10.1-inch large color touch screen (1024*600), designed with an easy-to-use graphical user interface.

Double Beam

≤0.1nm

20KG

 $\pm 0.0015A(0 \sim 0.5A) \pm 0.002A(0.5A \sim 1A)$

- The main unit independently performs photometric measurement, quantitative analysis, spectrum scanning, kinetics, DNA/protein testing, and multi-wavelength testing.
- When controlled via PC software, it provides richer extension applications. The software adheres to GLP/GMP laboratory standards and includes comprehensive user management, log recording, data storage traceability, and report output functions.
- It boasts powerful storage capabilities, able to save various types of data and spectra, equipped with a standard USB interface for direct data exportation for editing, measurement, and storage. The instrument also features a power-off data retention function.
- The unique design provides excellent optical performance, utilizing a holographic grating monochromator and a digital photodiode detector, ensuring low stray light, low noise, and high photometric accuracy and stability.
- A new wavelength drive mechanism greatly improves wavelength accuracy and repeatability while significantly reducing operational noise.
- It supports a wide range of optional accessories, including a wireless Bluetooth printer, automatic cell holder, film sample holder, tube cell holder, thermostatic bath holder, optical integrating sphere, reflectance attachment, variable path length sample holder, and variable angle solid sample holder, among other specialized accessories.
- Featuring a long-life Hamamatsu Xenon Lamp (Japan), eliminating the hassle of frequent lamp replacement.

Model: SP-XUV5101

Display

Power Requirements

PRODUCT PARAMETERS

Optical System

Light Source
Hamamatsu Xenon Lamp (Japan)

Spectral Bandwidth
1.0nm

Wavelength Range
190∼1100nm

Wavelength Accuracy ±0.1nm (at 656.1nm), ±0.3nm full range

Scanning Speed

High | Medium | Slow Wavelength Repeatability

Photometric Range -0.3~3A,0~9999C(0~9999F)

Photometric Accuracy

Photometric Repeatability $\pm 0.001 \text{A} (0 \sim 0.5 \text{A}) \pm 0.0015 \text{A} (0.5 \text{A} \sim 1 \text{A})$

Stability ≤0.001 A/h / 500nm

Stray Light ≤0.02%T @ 220,360nm

Sample Compartment
Fixed cuvette holder 1cm

10.1-inch large color touch screen(1024*600)

Output

USB Port Printer Port

110/220V,50/60Hz,120W

Dimension[L×W×H] 570*440*210mm

Weight

SP-UV5102 UV-Vis Spectrophotometer



The instrument is equipped with a 10.1-inch large color touch screen (1024*600), designed with an easy-to-use graphical user interface.

- The main unit independently performs photometric measurement, quantitative analysis, spectrum scanning, kinetics, DNA/protein testing, and multi-wavelength testing.
- When controlled via PC software, it provides richer extension applications. The software adheres to GLP/GMP laboratory standards and includes comprehensive user management, log recording, data storage traceability, and report output functions.
- It boasts powerful storage capabilities, able to save various types of data and spectra, equipped with a standard USB interface for direct data exportation for

editing, measurement, and storage. The instrument also features a power-off data retention function.

- The unique design provides excellent optical performance, utilizing a holographic grating monochromator and a digital photodiode detector, ensuring low stray light, low noise, and high photometric accuracy and stability.
- A new wavelength drive mechanism greatly improves wavelength accuracy and repeatability while significantly reducing operational noise.
- It supports a wide range of optional accessories, including a wireless Bluetooth printer, automatic cell holder, film sample holder, tube cell holder, thermostatic bath holder, optical integrating sphere, reflectance attachment, variable path length sample holder, and variable angle solid sample holder, among other specialized accessories.
- Featuring a long-life Hamamatsu Xenon Lamp (Japan), eliminating the hassle of frequent lamp replacement.

Model: SP-XUV5102

Spectral Bandwidth

Wavelength Range

Wavelength Repeatability

Photometric Range

Stray Light

PRODUCT PARAMETERS

Optical System

Double Beam

Light Source

Hamamatsu Xenon Lamp (Japan)

2.0nm

Wavelength Accuracy 190∼1100nm

±0.1nm (at 656.1nm), ±0.3nm full range

Scanning Speed

High | Medium | Slow

≤0.1nm

-0.3~3A,0~9999C(0~9999F)

Photometric Accuracy

±0.002A(0~0.5A)±0.003A(0.5A~1A)

Photometric Repeatability $\pm 0.001 \text{A} (0 \sim 0.5 \text{A}) \pm 0.0015 \text{A} (0.5 \text{A} \sim 1 \text{A})$

Stability ≤0.001A/h / 500 nm

≤0.03%T @ 220,360nm

Fixed cuvette holder 1cm

Display

10.1-inch large color touch screen(1024*600)

Output

Power Requirements

USB Port Printer Port

110/220V,50/60Hz,120W Dimension[L×W×H]

570*440*210mm Weight

20KG

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