

QUIMICOMPANY

EQUIPOS E INSUMOS PARA LABORATORIO

MAPADA
MAPADA INSTRUMENTS

DOUBLE BEAM UV/VIS SPECTROPHOTOMETER - MAX. 1100nm

REF: M9



The master who is the person having excellent achievement in the field of analytical measurement and with widespread respects. "Master Series" are customized analytical equipment for you.

- 10 years experience for UV/ Vis Spectrophotometer design&manufacturing.
- 60% selling to EU, US, Japan, Russia and other 80 countries.
- 45000 sets stable working instrument --the guarantee of quality!

Features

Double beam design

Higher stability, extremely low stray light, eliminating error caused by light source and simple



Full range of interfaces

HDMI, VGA, USB, RJ-45, connect mouses, keyboards, printers, USB disks, etc.

Wide range of accessories

Large sample compartment suitable for more than 20 accessories with different functions

Built-in industrial computer

10.1 inch built-in industrial computer, controlled by touch, Windows 10 OS easy to use, better compatibility

New wavelength driving mechanism

New wavelength driving mechanism design high speed, accuracy zero noise

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Double Beam Design

Double Beam can monitor the sample and blank variability at the same time, and the measurement results are recorded accurately, then reduced measurement error to minimum.

Flashing Xenon Lamp

Xenon flash lamp has a very strong energy in the ultraviolet and visible region, can start testing directly without preheating. And has characters such as very low power consumption, ultra long life and no heating...can be guaranteed at least 3 years for the lamp the normal measurement. It's very easy for maintenance, the use of low cost.

Computer Control

Computer based on Windows operating system, rich data interface (USB, Bluetooth, WIFI, Ethernet, HDMI, VGA, etc.), to facilitate the user to connect the printer, memory, mouse, keyboard, display and other peripherals, and can be extended.

Color Touch Screen

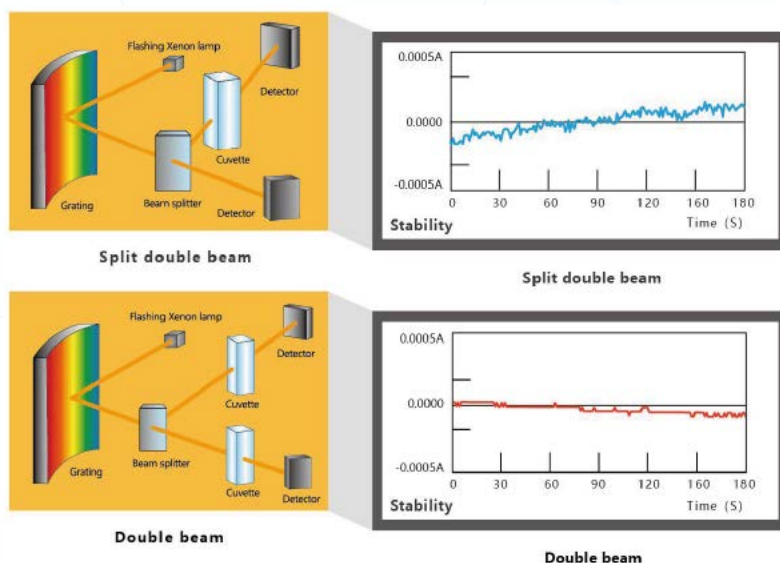
10.1 inch high resolution capacitive color touch screen. Support 10 point touch. Combined with the friendly interface, a nice working experience for users.

GLP/GMP

The instrument design was completely followed by GLP/GMP. Built-in perfect user management, data storage, traceability and other functions.

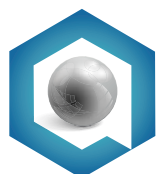
Extensive Accessories

Instrument can be convenient to use 8-cell Automatic holder, Peltier/Sipper System, Reflection accessories and so forth, greatly expanding the application field of the instrument.



Connections





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High Quality Manufacturing Process

Continues optimized design for the bottom frame, produced by aeronautic material and one batch forming. The outer shell is produced by plastic be able to bear high pressure. It's more fancy and stable.

The accuracy, reliability and durability are largely enhanced.



Flashing Xenon Lamp

The high quality flashing Xenon Lamp is from HAMAMATSU with strong power at the range of ultra-violet and optical light. It has low energy costing, long half life, low heat release, easy to maintain. It's the ideal light source for this equipment. No need to wait for pre-warming and ready to measure immediately after starting the equipment.

M9 Flashing Xenon Lamp Double Beam UV/VIS Spectrophotometer

Quantitation

By measuring reference samples and establish standard curve, to determine unknown samples. support built-in and customized formulation to establish standard curve.

Multi-wavelength Measurement

Measure absorbance and transmission at multiple wavelength and analyze the results by built-in methods.

Time Scanning

Double Beam can monitor the sample and blank variability at the same time, and the measurement results are recorded accurately, then reduced measurement error to minimum.

Kinetics

Determine absorbance at any time interval and defined wavelength. It can be used to monitor real-time enzyme reaction and calculate enzyme activity according to the results. The reaction rate of samples can be calculated by setting the interval time.

DNA/Protein Determination

According to the sample type, chose suitable method to determine DNA, RNA and protein concentration.

Wavelength Scanning

Determine full wave length absorbance and transmission at defined wave length interval, generate the graph and search for peaks and valleys, analyze the graph by built-in methods.

Customized Methods

Users can adjust the calculation methods upon own requirement and use it in corresponding determining module.

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M9 Flashing Xenon Lamp Double Beam UV/VIS Spectrophotometer

Photometry Measurement

Measure absorbance and transmission at any defined wave length.

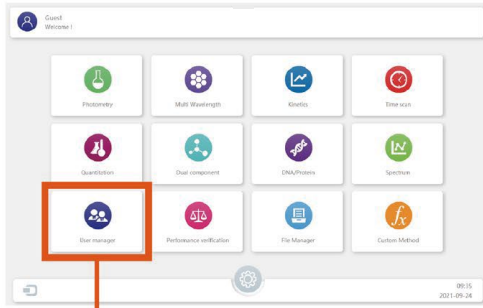
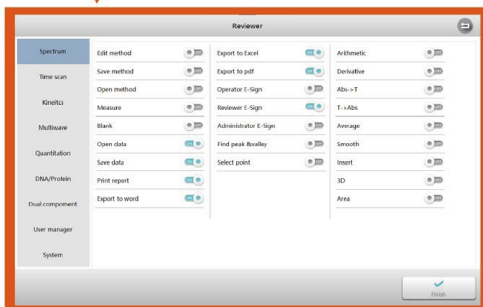
Perfect functions



New desing UI



Application

GLP/GMP compliance by software

- Multi-user rights management
- Logging
- Binary file save
- Quality control
- Report output
- E-signature

Data output

Share data with other systems



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Technical specifications

Parameters	Description
Optical system	Doble beam
Light Source	Flashing Xenon Lamp
Bandwidth	0.5 1, 2, 4 5 nm
Wavelength range	190 ~ 1100 nm
Wavelength accuracy	±0.3 nm
Wavelength repeatability	≤0.1 nm
Wavelength display	0.1 nm
Wavelength swing speed	10000 nm/min
Wavelength scanning speed	20 ~ 3200 nm/min
Photometric range	-0.3 ~ 3A, 0 ~ 200 %T, 0 ~ 9999.9C
Photometric accuracy	±0.002 A @ 0.0 ~ 0.5 A, ±0.004 A @ 0.5 ~ 1 A, ±0.3%T @ 0 ~ 100%T
Photometric repeatability	≤0.001 A @ 0.0 ~ 0.5 A, ±0.002 A @ 0.5 ~ 1 A, ≤0.1%T @ 0 ~ 100%T
Noise	≤0.0005 A @ 0.0A, 260nm, ≤0.001 A @ 1 A, 260nm, ≤0.002 A @ 2A, 260 nm
Drift	≤0.0005A/h @ 500nm, after 2 hour preheating
Baseline flatness	±0.001A
Stray light	≤0.05 %T @ 220, 360nm
Measurement mode	Photometry, Quantitation, Spectrum, Kinetics, Time scan, Multi-wavelength, DNA/ Protein, Custom Method
Detector	Dual silicon photodiode
Sample holder	10mm 1-cell holder
Display	10.1 Inch Color Touch Screen (1280*800)
Storage	64GB (internal), unlimited expansion (USB storage, SD card, SD- network storage device)
Interface	USB-A (extensible; for USB printers, storage, mice, keyboards and other peripherals) x3, USB-B (PC)x1, RJ-45 (Ethernet)x1, VGAx1, HDMIx1, extensible bluetooth, WIFI
Power	110V/ 60Hz
Dimensions	580(W) x 420 (D) x235 (H) mm
Weight	18kg
Language	10 Languages, Can Be Switched (English, German, French, Spanish, Portuguese, Simplified Chinese / Russian) Spanish, Portuguese, Italian, Russian, Chinese, Japanese, Korean)
Operation System	Microsoft Windows
Spectrum Scanning	Yes