

# VWR® spectrophotometry

01. SPECTROPHOTOMETERS

02. CUVETTES

03. PARTS AND  
ACCESSORIES



# VWR® UV/Vis spectrophotometers

Welcome to the VWR® branded range of products for spectrophotometry.

Spectrophotometers are widely used in many research, QC and pharmaceutical labs for applications within chemistry, biochemistry, life science and water analysis. Our products offer quality and great value for your money whilst supporting the whole workflow.

VWR®, part of Avantor®, has many years of experience supporting spectrophotometry applications. We right products for your application.

VWR spectrophotometers provide a range of:

1. Single beam units
2. Split beam units
3. Double beam units

## SINGLE BEAM UNITS

VWR® introduces two new single beam models: the PV4 VIS Spectrophotometer and the P4 UV/VIS spectrophotometer. We now have seven single beam models, each with a ready-to-use package including glass or quartz cells. Both the PV4 and P4 are redesigned and differentiate from other models with a smaller footprint and a high-resolution TFT color LCD touch screen. All units are robust and feature easy handling, plus all the functions required for daily measurements in your lab. A large sample compartment coupled with an extensive range of optional accessories allow you to customize the unit to your requirements.

## SPLIT BEAM UNIT

The M4 UV/VIS Spectrophotometer is a new unit that features a xenon lamp and split beam optics. It is also redesigned with a smaller footprint and a TFT color LCD touch screen.

## DOUBLE BEAM UNIT

UV-6300PC is a powerful and all-round top performer in a host of different applications, from research to pharmaceutical labs, QC to new material development with our large range of accessories.



## VWR® UV/VISIBLE SPECTROPHOTOMETER, P4

The P4 UV/Vis spectrophotometer is an easy-to-use instrument with advanced performance.

- Highly accurate and reliable
- Simple, elegant design with aluminum base
- Easy-to-change lamp, user-friendly interface

It provides several basic functions, such as photometry tests, quantitation tests and spectrum scanning.

## WHAT'S NEW



Absorbance range	-0,3...+3,0 A
Photometric range	0 - 200% T
Wavelength accuracy	±0,5 nm
Wavelength repeatability	<0,2 nm
Scanning speed	4200 nm/min
Light source	Tungsten/deuterium
Memory	236 Kb
WxDxH	456x360x185 mm
Weight	10,7 kg
Power	100 - 240 V AC; 50/60 Hz; 120 W

Description	Model	Range	PK	Cat. No.
UV/Visible spectrophotometer	P4	190 - 1100 nm	1	76520-712
Visible spectrophotometer	PV4	320 - 1100 nm	1	76520-714
<b>Accessories</b>				
Description	For use with			Cat. No.
Cell holder, 1-position, for cylindrical cells	-			76520-718
Cell holder, 1-position, thermostatable, for 10 mm standard cells (external water bath required)	-			76520-722
Cell holder, 4-position, thermostatable, for 10 mm standard cells (external water bath required)	-			76520-720
Cell holder, automatic 5-position, 10 mm	-			76520-724
Thermal printer, RD-TH32-SC	M4, P4, PV4			76520-726
Software, EasyUV, used for PV/P1-4	M4, P4, PV4			76520-734
Tungsten lamp, USHIO JC12V-20W/G4 C6	M4, P4, PV4			76520-736
Flashing xenon lamp	M4, P4, PV4			76520-746
Sample room panel with port (needed for 10037-452 and 10037-460)	-			76520-738

## VWR® UV/VIS SPECTROPHOTOMETER, M4

The M4 single split-beam spectrophotometer, with flashing xenon lamp, is an easy-to-use, highly reliable and accurate product.

- Single split-beam design for sample and blank variability can be monitored at the same time
- Xenon flash lamp with a very strong energy in the UV and visible range
- Connects to a computer based on Windows® through various interfaces

Measure absorbance and transmission at any defined wavelength, generate a graph and search for peaks and valleys, or analyze the graph by built-in methods.

The application can be extended to luminosity determination, multiple wavelength measurement, quantitative analysis, dynamic determination, DNA/protein determination and spectral measurements.

GLP/GMP compliant.

Supplied with a user manual, 10 mm quartz cuvette, 10 mm glass cuvette, fuse, power cable and dust cover.



Display	5" color touch screen
Wavelength range	190 - 1100 nm
Spectral bandwidth	2 nm
Light source	Flashing xenon lamp
Languages	7 can be switched: English, German, French, Spanish, Portuguese, simplified Chinese, Russian
Output	USB; serial port; Bluetooth® (optional)
WxDxH	456x360x185 mm
Weight	10,5 kg

Description	Model	Pk	Cat. No.
UV/Vis spectrophotometer	M4	1	76520-716

# Software

Two different software packages - M.Wave Professional or UV-Analyst (depending on the model) transform these stand-alone units to allow greater results storage and more demanding analysis of results.

## M.WAVE PROFESSIONAL

Full functionality of stand-alone unit plus more powerful data processing, expanded data collecting and storage capability. Optional for V-1200, included with UV-1600PC.

### Basic functionalities:

- Basic photometric mode
- Quantitative test (standard curve)
- Wavelength scanning
- Kinetics
- DNA/protein
- Multiwavelength test
- System utility

### PC system requirements:

Pentium or above PC, CD-ROM, USB ports; 32 MB memory (>256 MB is strongly recommended); >50 MB hard disk space; Microsoft Windows 2000/XP/Vista/7/10

### More advanced software functionalities

- Printable spectrums, results and reports
- No memory limits by spectrophotometer
- Standard curve - up to 20 standards
- Curve fitting: linear/linear through zero/square
- Wavelength scan
- Automatic record of peaks and valleys (unlimited number of channels)
- Offline calculation and processing including:
  - 1st to 4th derivation
  - Rescaling axes, smoothing, combination, zooming, overlap
- Multiwavelength scan
- Up to 20 wavelengths
- DNA/protein concentration

## PC SOFTWARE UV-ANALYST

Full functionality of stand-alone unit plus more powerful data processing, expanded data collecting and storage capability. Included with V-3000PC, UV-3100PC and UV-6300PC.

### Basic functionalities:

- Basic photometric mode
- Quantitative test (standard curve)
- Wavelength scanning
- Kinetics
- DNA/protein
- Multiwavelength test
- System utility

### PC system requirements:

Pentium or above PC, CD-ROM, USB ports; 32 MB memory (>256 MB is strongly recommended); >50 MB hard disk space; Microsoft Windows 2000/XP/Vista/7/10

### More advanced software functionalities

- Printable spectrums, results and reports
- No memory limits by spectrophotometer
- Standard curve - up to 20 standards
- Wavelength scan
- Automatic record of peaks and valleys (unlimited number of channels)
- Offline calculation and processing including:
  - 1st to 4th derivation
  - Smoothing, combination, zooming, overlap
- Multiwavelength scan
- Up to 20 wavelengths
- Multiple sample measurement (with optional automatic cell changer)

**VWR® VISIBLE SPECTROPHOTOMETER, V-1200**

The V-1200 is designed for routine, daily, quality control requirements, in-process control and teaching laboratories.

- Large LCD display (128×64 P)
- Can save a total of 200 results and 200 standard curves
- Download data to PC via USB interface

Supplied with four optical glass cells, four-position cell changer, power cable with UK and EU plug and dust cover.



Display	LCD, 128×64 P
Absorbance range	–0.3...+3.0 A
Optical design	Grating monochromator
Absorbance accuracy	±0.002 A/h @ 500 nm
Photometric accuracy	±0.5% T
Photometric range	0 – 200% T
Wavelength accuracy	±2 nm
Wavelength range	325 – 1000 nm
Wavelength repeatability	≤0.8 nm
Stray light	≤0.3% T
Spectral bandwidth	4 nm
Light source	Tungsten
Languages	English, German, Spanish, French
Output	USB
Electrical	220 V/50 Hz
Detector	1200 lines/mm silicon photodiode
W×D×H	490×360×210 mm
Weight	12 kg

Description	Model	Pk	Cat. No.
Spectrophotometer	V-1200	1	10037-434
<b>Accessories</b>			
4-position cell holder for 10×(10 – 50) mm sq. cuvettes	-	1	10037-446
4-position cell holder for 10×(10 – 100) mm sq. cuvettes	-	1	10037-448
4-position water jacketed cell holder for 10 mm cuvettes	-	1	10037-460
Cuvette, glass, 10 mm path length – 4 pcs	-	4	10037-462
Cuvette, glass, 20 mm path length – 2 pcs	-	2	10037-464
Cuvette, glass, 30 mm path length – 2 pcs	-	2	10037-466
Cuvette, glass, 50 mm path length – 2 pcs	-	2	10037-468
Cuvette, glass, 100 mm path length – 1 pc	-	1	10037-470
Cuvette, quartz, 10 mm path length – 2 pcs	-	2	10037-472
Cuvette, quartz, 20 mm path length – 2 pcs	-	2	10037-474
Cuvette, quartz, 30 mm path length – 2 pcs	-	2	10037-476
Cuvette, quartz, 50 mm path length – 2 pcs	-	2	10037-478
Cylindrical cell holder, 16 mm	-	1	10037-450
Deuterium lamp for uv1600pc, uv-3100pc	-	1	10037-486
Flow cell, optical glass, 5 mm path length, for beam height 15 mm	-	1	10037-524
Flow cell, optical glass, 10 mm path length, beam height 15 mm	-	1	10037-526
Flow cell, optical glass, 20 mm path length, for beam height 15 mm	-	1	10037-528
Flow cell, optical glass, 30 mm path length, for beam height 15 mm	-	1	10037-530
Flow cell, quartz glass, 10 mm path length, beam height 15 mm	-	1	10037-534
Flow cell, quartz, 5 mm path length, for beam height 15 mm	-	1	10037-532

Description	Model	Pk	Cat. No.
<b>Accessories</b>			
Flow cell, quartz, 20 mm path length, for beam height 15 mm	-	1	10037-536
Flow cell, quartz, 30 mm path length, for beam height 15 mm	-	1	10037-538
Halogen lamp for V-1200, UV-1600PC, UV-3100PC, V-3000PC	-	1	10037-484
M. Wave Professional software CD for Windows 98/2000/XP	-	1	10037-496
Micro cell holder	-	1	10037-490
Micro cell, quartz, 100 µl, 10 mm path length, for beam height 15 mm	-	1	10037-492
Micro cell, quartz, 200 µl, 10 mm path length, for beam height 15 mm	-	1	10037-494
Micro cell, quartz, 500 µl, 10 mm path length – 1 pc	-	1	10037-482
Single position water jacketed cell holder, 10 mm	-	1	10037-452
Test tube holder 8 – 22 mm	-	1	10037-454
Thermal paper	-	1	10037-504
Thermal printer	-	1	10037-488
Sipper, 100 – 240 V AC, 50 – 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-322
Sipper, temperature control, 100 – 240 V AC, 50 – 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC and V-3000PC UV/Vis spectrophotometer	-	1	76499-324
Temperature controller, 100 – 240 V AC, 50 – 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-320



## VWR® UV/VISIBLE SPECTROPHOTOMETER, UV-1600PC

The UV-1600PC is designed for routine daily quality control requirements, in-process control and teaching laboratories.

- Can save a total of 200 results and 200 standard curves
- Download data to PC via USB interface
- Optional accessories including an automatic eight-cell changer

Supplied with four optical glass cells, two quartz cells, four-position cell holder, power cable with UK and EU plug, dust cover and application software for PC control.



Display	Graphic LCD (128×64 P)
Absorbance range	−0,3...+3,0 A
Photometric accuracy	±0,2% T
Photometric range	0 - 200% T
Photometric stability	±0,002 A/h @ 500 nm
Wavelength accuracy	±0,5 nm
Wavelength range	190 - 1100 nm
Wavelength repeatability	≤0,3 nm
Stray light	±0,05% T @ 220; 360 nm
Spectral bandwidth	4 nm
Light source	Tungsten
Languages	English, German, Spanish, French
Output	USB
Electrical	220 V/50 Hz
Detector	Grating 1200 lines/mm silicon photodiode
W×D×H	490×360×240 mm
Weight	14 kg

Description	Model	Pk	Cat. No.
Scanning Spectrophotometer	UV-1600PC	1	10037-436
<b>Accessories</b>			
4-position cell holder for 10×(10 - 50) mm sq. cuvettes	-	1	10037-446
4-position cell holder for 10×(10 - 100) mm sq. cuvettes	-	1	10037-448
4-position water jacketed cell holder for 10 mm cuvettes	-	1	10037-460
Cuvette, glass, 10 mm path length - 4 pcs	-	4	10037-462
Cuvette, glass, 20 mm path length - 2 pcs	-	2	10037-464
Cuvette, glass, 30 mm path length - 2 pcs	-	2	10037-466
Cuvette, glass, 50 mm path length - 2 pcs	-	2	10037-468
Cuvette, glass, 100 mm path length - 1pc	-	1	10037-470
Cuvette, quartz, 10 mm path length - 2 pcs	-	2	10037-472
Cuvette, quartz, 20 mm path length - 2 pcs	-	2	10037-474
Cuvette, quartz, 30 mm path length - 2 pcs	-	2	10037-476
Cuvette, quartz, 50 mm path length - 2 pcs	-	2	10037-478
Cylindrical cell holder, 16 mm	-	1	10037-450
Deuterium lamp for uv1600pc, uv-3100pc	-	1	10037-486
Flow cell, optical glass, 5 mm path length, for beam height 15 mm	-	1	10037-524
Flow cell, optical glass, 10 mm path length, beam height 15 mm	-	1	10037-526
Flow cell, optical glass, 20 mm path length, for beam height 15 mm	-	1	10037-528
Flow cell, optical glass, 30 mm path length, for beam height 15 mm	-	1	10037-530
Flow cell, quartz glass, 10 mm path length, beam height 15 mm	-	1	10037-534
Flow cell, quartz, 5 mm path length, for beam height 15 mm	-	1	10037-532
Flow cell, quartz, 20 mm path length, for beam height 15 mm	-	1	10037-536
Flow cell, quartz, 30 mm path length, for beam height 15 mm	-	1	10037-538
Halogen lamp for V-1200, UV-1600PC, UV-3100PC, V-3000PC	-	1	10037-484
M. Wave Professional software CD for Windows 98/2000/XP	-	1	10037-496
Micro cell holder	-	1	10037-490
Micro cell, quartz, 100 µl, 10 mm path length, for beam height 15 mm	-	1	10037-492
Micro cell, quartz, 200 µl, 10 mm path length, for beam height 15 mm	-	1	10037-494
Micro cell, quartz, 500 µl, 10 mm path length - 1 pc	-	1	10037-482
Single position water jacketed cell holder, 10 mm	-	1	10037-452
Test tube holder 8 - 22 mm	-	1	10037-454
Thermal paper	-	1	10037-504
Thermal printer	-	1	10037-488
Sipper, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-322
Sipper, temperature control, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC and V-3000PC UV/Vis spectrophotometer	-	1	76499-324
Temperature controller, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-320

## VWR® VISIBLE SPECTROPHOTOMETER, V-3000PC

Visible spectrophotometer for advanced routine measurements and educational applications.

- Absorption, transmission and concentration photometry
- Up to 10 quantitative standards
- Four methods for calibration curve: linear, linear through zero, square and cubic
- Offline calculation: Rescaling, curve tracking and peak search

Supplied with four glass cells, dust cover, USB cable, 8 GB USB stick, software, four-position cell holder (10 mm) and power cables with UK, CH and EU plugs.



Display	Graphic LCD, 5", 320x240 P
Absorbance range	-0,3...+3,0 A
Absorbance accuracy	±0,005 A @ 1 A
Photometric accuracy	≤±0,5% T
Photometric range	0 - 200% T; 0 - 9999 conc.
Photometric reproducibility	±0,2% T
Photometric stability	±0,002 A/h @ 500 nm
Wavelength accuracy	±0,5 nm
Wavelength range	320 - 1100 nm
Stray light	±0,05% T @ 360 nm
Spectral bandwidth	4 nm
Scanning speed	100 - 1000 nm/min (max. 3000)
Light source	Tungsten
Memory	200 values
Languages	English, German, Spanish, French
Interfaces	USB connections to PC and for memory stick / parallel port to printer
Electrical	220 V/50 Hz
WxDxH	490x360x240 mm
Weight	12 kg

Description	Model	Pk	Cat. No.
VIS Scanning Spectrophotometer	V-3000PC,	1	10037-440
<b>Accessories</b>			
4-position cell holder for 10x(10 - 50) mm sq. cuvettes	-	1	10037-446
4-position cell holder for 10x(10 - 100) mm sq. cuvettes	-	1	10037-448
4-position water jacketed cell holder for 10 mm cuvettes	-	1	10037-460
Cuvette, glass, 10 mm path length - 4 pcs	-	4	10037-462
Cuvette, glass, 20 mm path length - 2 pcs	-	2	10037-464
Cuvette, glass, 30 mm path length - 2 pcs	-	2	10037-466
Cuvette, glass, 50 mm path length - 2 pcs	-	2	10037-468
Cuvette, glass, 100 mm path length - 1 pc	-	1	10037-470
Cuvette, quartz, 10 mm path length - 2 pcs	-	2	10037-472
Cuvette, quartz, 20 mm path length - 2 pcs	-	2	10037-474
Cuvette, quartz, 30 mm path length - 2 pcs	-	2	10037-476
Cuvette, quartz, 50 mm path length - 2 pcs	-	2	10037-478
Cylindrical cell holder, 16 mm	-	1	10037-450
Deuterium lamp for uv1600pc, uv-3100pc	-	1	10037-486
Flow cell, optical glass, 5 mm path length, for beam height 15 mm	-	1	10037-524
Flow cell, optical glass, 10 mm path length, beam height 15 mm	-	1	10037-526
Flow cell, optical glass, 20 mm path length, for beam height 15 mm	-	1	10037-528
Flow cell, optical glass, 30 mm path length, for beam height 15 mm	-	1	10037-530
Flow cell, quartz glass, 10 mm path length, beam height 15 mm	-	1	10037-534
Flow cell, quartz, 5 mm path length, for beam height 15 mm	-	1	10037-532

Description	Model	Pk	Cat. No.
<b>Accessories</b>			
Flow cell, quartz, 20 mm path length, for beam height 15 mm	-	1	10037-536
Flow cell, quartz, 30 mm path length, for beam height 15 mm	-	1	10037-538
Halogen lamp for V-1200, UV-1600PC, UV-3100PC, V-3000PC	-	1	10037-484
M. Wave Professional software CD for Windows 98/2000/XP	-	1	10037-496
Micro cell holder	-	1	10037-490
Micro cell, quartz, 100 µl, 10 mm path length, for beam height 15 mm	-	1	10037-492
Micro cell, quartz, 200 µl, 10 mm path length, for beam height 15 mm	-	1	10037-494
Micro cell, quartz, 500 µl, 10 mm path length - 1 pc	-	1	10037-482
Single position water jacketed cell holder, 10 mm	-	1	10037-452
Test tube holder 8 - 22 mm	-	1	10037-454
Thermal paper	-	1	10037-504
Thermal printer	-	1	10037-488
Sipper, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-322
Sipper, temperature control, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC and V-3000PC UV/Vis spectrophotometer	-	1	76499-324
Temperature controller, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-320

## VWR® UV/VISIBLE SPECTROPHOTOMETER, UV-3100PC

UV/Visible spectrophotometer for advanced measurements in quality control, biochemical and pharmaceutical applications.

- Absorption, transmission and concentration photometry
- Up to 10 quantitative standards
- Four methods for calibration curve: linear, linear through zero, square and cubic
- Offline calculation, rescaling, curve tracking and peak search
- Kinetic scanning time course or reacting rate calculations

Supplied with four glass cells, two quartz cells (not V3000-PC), dust cover, USB cable, 8 GB USB stick, software, four-position cell holder (10 mm) and power cables with UK, CH, EU plugs.



Display	5" graphic LCD (320x240 P)
Absorbance range	–0,3...+3,0 A
Optical design	Monochromator (single beam)
Absorbance accuracy	±0,005 A
Photometric accuracy	±±0,5% T
Photometric range	0 – 200% T; 0 – 9999 conc.
Photometric reproducibility	±0,2% T
Photometric stability	±0,002 A/h @ 500 nm
Wavelength accuracy	±0,5 nm
Wavelength range	190 – 1100 nm
Stray light	±0,05% T @ 220 and 360 nm
Spectral bandwidth	2 nm
Scanning speed	Low, medium, high: 50 nm/s (max. 3000 nm/min)
Light source	Deuterium/tungsten
Memory	200 values
Languages	English, German, Spanish, French
Interfaces	USB connection to PC / USB connection to memory stick
No. of standards	200
Keyboard	Solvent resistant alphanumeric
Weight	14 kg

Description	Model	Pk	Cat. No.
UV/VIS Scanning Spectrophotometer	UV-3100PC	1	10037-438
<b>Accessories</b>			
4-position cell holder for 10x(10 - 50) mm sq. cuvettes	-	1	10037-446
4-position cell holder for 10x(10 - 100) mm sq. cuvettes	-	1	10037-448
4-position water jacketed cell holder for 10 mm cuvettes	-	1	10037-460
Cuvette, glass, 10 mm path length - 4 pcs	-	4	10037-462
Cuvette, glass, 20 mm path length - 2 pcs	-	2	10037-464
Cuvette, glass, 30 mm path length - 2 pcs	-	2	10037-466
Cuvette, glass, 50 mm path length - 2 pcs	-	2	10037-468
Cuvette, glass, 100 mm path length - 1 pc	-	1	10037-470
Cuvette, quartz, 10 mm path length - 2 pcs	-	2	10037-472
Cuvette, quartz, 20 mm path length - 2 pcs	-	2	10037-474
Cuvette, quartz, 30 mm path length - 2 pcs	-	2	10037-476
Cuvette, quartz, 50 mm path length - 2 pcs	-	2	10037-478
Cylindrical cell holder, 16 mm	-	1	10037-450
Deuterium lamp for uv1600pc, uv-3100pc	-	1	10037-486
Flow cell, optical glass, 5 mm path length, for beam height 15 mm	-	1	10037-524
Flow cell, optical glass, 10 mm path length, beam height 15 mm	-	1	10037-526
Flow cell, optical glass, 20 mm path length, for beam height 15 mm	-	1	10037-528
Flow cell, optical glass, 30 mm path length, for beam height 15 mm	-	1	10037-530
Flow cell, quartz glass, 10 mm path length, beam height 15 mm	-	1	10037-534

Description	Model	Pk	Cat. No.
<b>Accessories</b>			
Flow cell, quartz, 5 mm path length, for beam height 15 mm	-	1	10037-532
Flow cell, quartz, 20 mm path length, for beam height 15 mm	-	1	10037-536
Flow cell, quartz, 30 mm path length, for beam height 15 mm	-	1	10037-538
Halogen lamp for V-1200, UV-1600PC, UV-3100PC, V-3000PC	-	1	10037-484
M. Wave Professional software CD for Windows 98/2000/XP	-	1	10037-496
Micro cell holder	-	1	10037-490
Micro cell, quartz, 100 µl, 10 mm path length, for beam height 15 mm	-	1	10037-492
Micro cell, quartz, 200 µl, 10 mm path length, for beam height 15 mm	-	1	10037-494
Micro cell, quartz, 500 µl, 10 mm path length - 1 pc	-	1	10037-482
Single position water jacketed cell holder, 10 mm	-	1	10037-452
Test tube holder 8 - 22 mm	-	1	10037-454
Thermal paper	-	1	10037-504
Thermal printer	-	1	10037-488
Sipper, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-322
Sipper, temperature control, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC and V-3000PC UV/Vis spectrophotometer	-	1	76499-324
Temperature controller, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-320



**VWR® UV/VISIBLE SPECTROPHOTOMETER, UV-6300PC**

UV/Visible spectrophotometer with double beam optical system, designed for applications including general research, pharmaceutical, biochemical and clinical laboratory use, new material development and quality control.

- Standard photometrics: absorption, transmission and concentration
- Quantitative analysis and kinetics, multi-wavelength scan and spectrum scan
- DNA/RNA and protein analysis
- Internal control via keypad and PC control (optional)
- UV-Vis Analyst software for more powerful data processing and expanded data collecting

Supplied with four optical glass cells, two quartz cells, dust cover, USB cable, 8 GB USB stick, UV-Vis analyst software for PC control, cell holders for sample and reference, power cables with UK, CH and EU plugs.



Display	LCD, 320x240 P
Absorbance range	-0,3...+3,0 A
Optical design	Double beam
Absorbance accuracy	±0,002 A @ 1,0 A
Photometric accuracy	≤0,3% T
Photometric range	0 - 200% T; 0 - 9999 conc.
Photometric stability	0,001 A/h @ 500 nm
Wavelength accuracy	±0,3 nm
Wavelength range	190 - 1100 nm
Stray light	≤0,05% T @ 220 and 360 nm
Scanning speed	100 - 3000 nm/min. Intervals: 0,1; 0,2; 0,5; 1,0; 5,0 nm
Light source	Tungsten/deuterium
Memory	200 results and 200 curves
Languages	English, French, German, Spanish
Interfaces	Parallel printer
Output	USB
WxDxH	590x420x260 mm
Weight	26 kg

Description	Model	Pk	Cat. No.
Spectrophotometer	UV-6300PC	1	10037-442
<b>Cell holders</b>			
4-Position Cell Holder for 10 to 50 mm Sq. Cuvettes	-	1	10037-508
4-Position Cell Holder for 100 mm Sq. Cuvettes	-	1	10037-510
4-Position Water Jacketed Cell Holder, 10 mm	-	1	10037-518
8-Position Auto. Cell Changer	-	1	10037-456
Cylindrical Cell Holder, 16 mm dia.	-	1	10037-514
Single Position Cell Holder for 100 mm Sq. Cuvettes	-	1	10037-512
Single Position Water Jacketed Cell Holder, 10 mm	-	1	10037-516
Single Reference Cell Holder for 10 mm Cuvette	-	1	10037-502
Single Sample Cell Holder for 10 mm Cuvette	-	1	10037-500
Solid Sample Holder, 1,5 - 3 mm	-	1	10037-522
Test Tube Holder, 8 - 22 mm	-	1	10037-520
<b>Accessories</b>			
Sipper, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-322
Sipper, temperature control, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC and V-3000PC UV/Vis spectrophotometer	-	1	76499-324
Temperature controller, 100 - 240 V AC, 50 - 60 Hz, 60 VA, for use with UV-1600PC, UV-3100PC, UV-6300PC, V-3000PC UV/Vis spectrophotometer	-	1	76499-320
Halogen Lamp for UV-6300PC, 12V, 20 W	-	1	10037-498

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