

UV-20 Spectrophotometer

The **UV-20** is the **UV/Vis** spectrophotometer for QC requirement and education, in process control and teaching laboratories. It is widely used in **food industry, water analysis, vinery** and in **high schools and colleges**.

- Ideal for:**
- **High school and College**
  - **Food Industry**
  - **Water analysis**
  - **Vinery**



Technical Data	UV-20
Wavelength Range	200 - 1000 nm
Spectral Bandwidth	4 nm
Optical System	Single Beam, Grating 1200 lines/mm
Wavelength Accuracy	± 2 nm
Wavelength Repeatability	± 0,8 nm
Wavelength Resolution	0,1 nm
Photometric Accuracy	± 0,5% T or ±0,004 Abs @ 1 Abs
Photometric Repeatability	± 0,3% T
Photometric Range	0...200 %T, -0,3...3 A, 0...9999 Conc
Stray Light	≤ 0,2%T
Stability	±0,002 A/h @ 500 nm
Display	Graphic LCD (128x64 Pixels)
Photometric Mode	%T, Abs, Energy
Detector	Silicon Photodiode
Standard Cell Holder	4-position 10mm cell changer
Sample Compartment	Standard 10mm path-length cells
Light Source	Tungsten and Deuterium lamps
Output	USB Port for external PC control
Power Requirement	AC 110V~220V 50/60Hz
Dimensions (W*D*H)	440x387x180 mm
Weight	14 kg



Large sample compartment:  
4-position cell holder for 10mm  
square cuvettes



USB port for PC connection

Part No.	Description
11000022	<b>UV-20 Spectrophotometer</b> , including: 4 optical glass cells, 2 optical quartz cells, 4-position cell holder, power cable with EU plug, Basic PC software, dust cover. <b>Complete with Test Certificate referable to DKD Standard</b>

Features

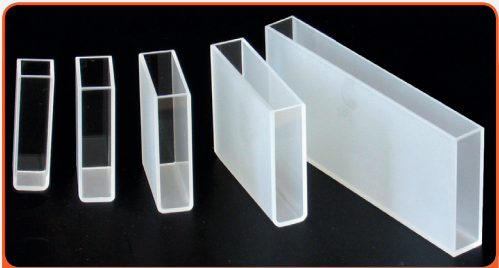
- Auto setting wavelength
- Tungsten lamp & Deuterium lamp turning on/off individually to extend lifetime
- Basic Mode: Absorbance, Transmittance, Concentration
- Quantitative: Standard Curve, Coefficient Methods
- Display standard curve and curve equation
- Display total 50 groups of data, 3 groups per screen
- System also saves the test results (total 200 groups of data and 200 standard curves); it is convenient for check and reload
- Data restoration after a sudden power cut
- Large LCD screen (128x64 Dots)
- Large sample compartment: accommodation of 5-100mm path length cells with optional holders
- Pre-aligned design makes it convenient to change lamps
- A variety of optional accessories are available



Graphic LCD Display in STAND-ALONE mode



Dust cover supplied with the instrument



Complete range of optical glass cuvettes



4-position cell holder for up to 100mm square cuvettes



4-position cell holder for up to 50mm square cuvettes

UV-20 Accessories	
Part No.	Description
11000212	4-cell holder for up to 50mm square cuvette
11000222	4-cell holder for up to 100mm square cuvette
11000252	Square cuvettes, optical glass, 10mm. Set of 4 pcs
11000262	Square cuvettes, optical glass, 20mm. Set of 4 pcs
11000272	Square cuvettes, optical glass, 30mm. Set of 4 pcs
11000282	Square cuvettes, optical glass, 50mm. Set of 4 pcs
11000292	Square cuvettes, optical glass, 100mm. Set of 4 pcs
11000302	Square cuvettes, quartz, 10mm. Set of 2 pcs
11000312	Square cuvettes, quartz, 20mm. Set of 2 pcs
11000322	Square cuvettes, quartz, 30mm. Set of 2 pcs
11000332	Square cuvettes, quartz, 50mm. Set of 2 pcs
11000342	Square cuvettes, quartz, 100mm. Set of 2 pcs

UV-30 SCAN Spectrophotometer

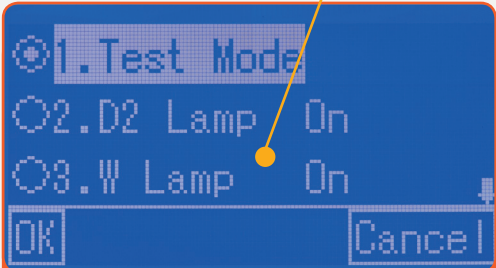
The **UV-30 SCAN** is the fully scanning UV/Vis spectrophotometer with advanced performance for quality control. **The automatic blank subtraction allows to perform scanning of the whole wavelength range.** The application software offers all the important methods for quantitative and qualitative analysis which make this instrument widely suitable for the **food industry, water analysis, vinery, R&D, and pharmaceutical industry.**

- Ideal for:**
- Quality Control
  - Food Industry
  - Water analysis
  - Vinery
  - Pharmaceutical Industry
  - R&D Laboratories



Technical Data	UV-30 SCAN
Wavelength Range	190 - 1100 nm
Spectral Bandwidth	2 nm
Optical System	Single Beam, Grating 1200 lines/mm
Wavelength Accuracy	± 0,5 nm
Wavelength Repeatability	± 0,3 nm
Wavelength Resolution	0,1 nm
Photometric Accuracy	± 0,3% T
Photometric Repeatability	± 0,2% T
Photometric Range	0...200 %T, -0,3...3 A, 0...9999 Conc
Stray Light	≤ 0,05%T @ 320, 360nm
Stability	±0,002 A/h @ 500 nm
Display	Graphic LCD (128x64 Pixels)
Photometric Mode	%T, Abs, Energy
Detector	Silicon Photodiode
Standard Cell Holder	4-position 10mm cell changer
Sample Compartment	Standard 10mm path-length cells
Light Source	Tungsten and Deuterium lamps
Output	USB Port for external PC control
Power Requirement	AC 110V~220V 50/60Hz
Dimensions (W*D*H)	440x387x180 mm
Weight	14 kg

Option of switching off the lamps in order to preserve the lifetime



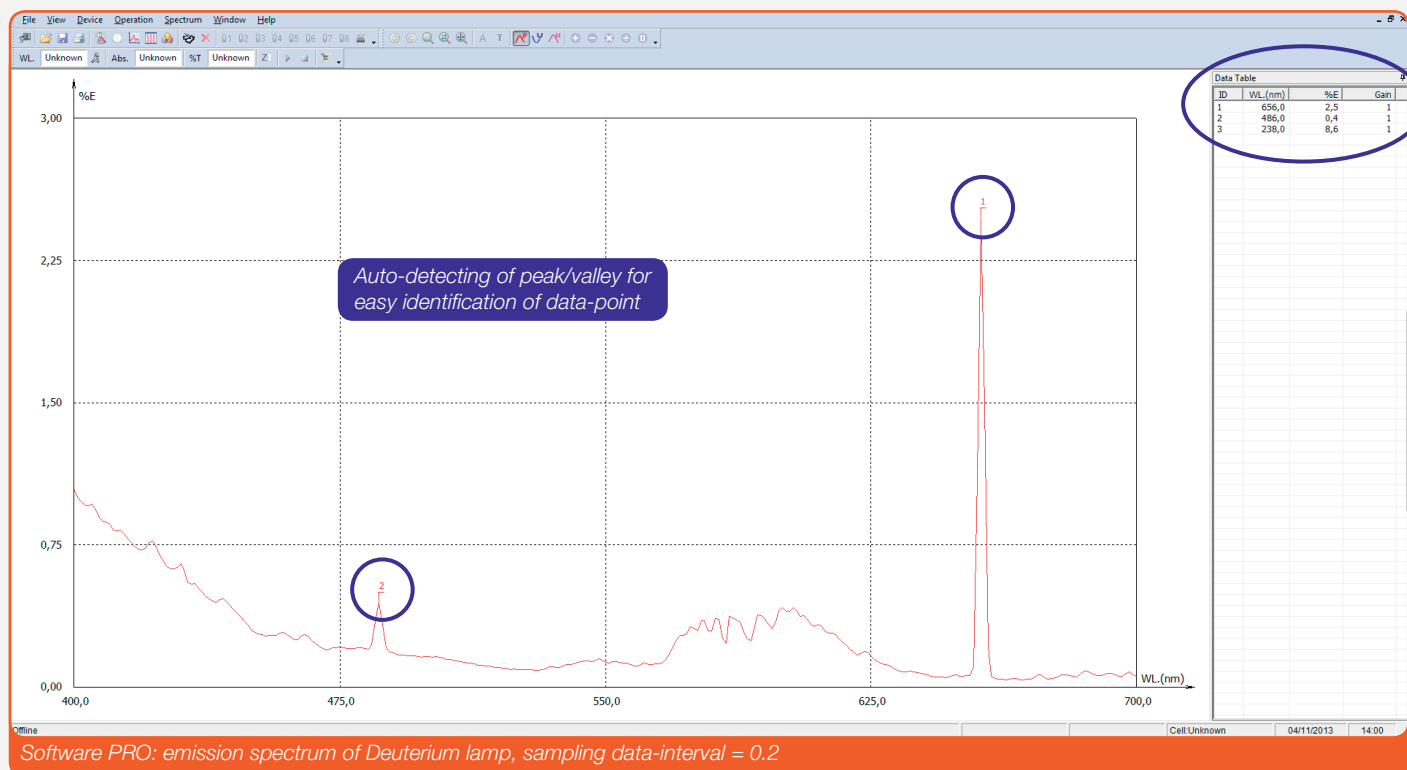
Graphic LCD Display in STAND-ALONE mode

Part No.	Description
11000032	UV-30 SCAN Spectrophotometer, including: 4 optical glass cells, 2 optical quartz cells, 4-position cell holder, power cable with EU plug, Professional PC software, USB cable, dust cover. Complete with Test Certificate referable to DKD Standard



## Features

- Auto-setting wavelength
- Tungsten lamp & Deuterium lamp turning on/off individually to extend lifetime
- Function: Quantitative, Kinetics, Wavelength Scan, Multi-wavelength & DNA/Protein Test
- Interval data point setting in Wavelength Scanning
- Quantitative: Standard Curve, Coefficient Methods
- System saving of the test results (total 200 groups of data and 200 standard curves) convenient for check and reload
- Data restoration after a sudden power cut
- The Professional PC software supplied provides complete control of the spectrophotometer from the computer, widening the functionality to spectrum analysis, auto-detecting of peak/valley, spectrum calculation and data exporting to spreadsheets
- Large sample compartment, for accommodation of 5-100mm path length cuvettes with optional holders
- Pre-aligned design makes convenient lamp replacement
- A variety of optional accessories are available



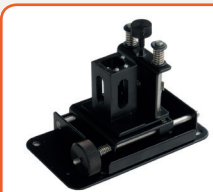
UV-30 SCAN Accessories



4-position cell holder for up to 50mm square cuvettes



4-position cell holder for up to 100mm square cuvettes



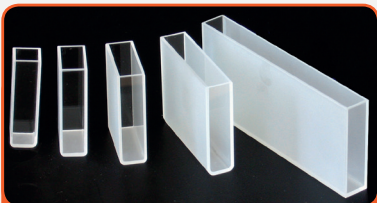
Cell holder for micro-cells (central beam height: 15mm)



8-position auto cell changer for 10mm square cuvettes



A-100 Peltier/Sipper System, constant-Temperature Sipper System (Holder beam height: 15mm)



Complete range of cuvettes (in optical glass and quartz)



Micro-cell, quartz, light-path of 10mm



Flow cell, 10mm, (central beam height: 15mm)

Part No.	Description
<b>Cell Holders</b>	
11000212	4-cell holder for up to 50mm square cuvette
11000222	4-cell holder for up to 100mm square cuvette
11000232	Cell holder for micro-cells (central beam height: 15mm)
11000242	8-position auto cell changer for 10mm square cuvette
11000402	Test tube holder (COD type) (diameter 8-24mm; max height: 110mm; central beam height: 35mm)
11000412	5° reflectance meachment attachment (minumim sample: 20x20mm, central beam height: 50mm) SUITABLE FOR ALL MODELS
<b>Optical glass cells (Visible)</b>	
11000252	Square cuvettes, optical glass, 10mm. Set of 4 pcs
11000262	Square cuvettes, optical glass, 20mm. Set of 4 pcs
11000272	Square cuvettes, optical glass, 30mm. Set of 4 pcs
11000282	Square cuvettes, optical glass, 50mm. Set of 4 pcs
11000292	Square cuvettes, optical glass, 100mm. Set of 4 pcs
<b>Optical quartz cells (UV)</b>	
11000302	Square cuvettes, quartz, 10mm. Set of 2 pcs
11000312	Square cuvettes, quartz, 20mm. Set of 2 pcs
11000322	Square cuvettes, quartz, 30mm. Set of 2 pcs
11000332	Square cuvettes, quartz, 50mm. Set of 2 pcs
11000342	Square cuvettes, quartz, 100mm. Set of 2 pcs
<b>Micro-cells</b>	
11000352	Micro-cell 100 µl, quartz, 10mm
11000362	Micro-cell 200 µl, quartz, 10mm
11000372	Micro-cell 500 µl, quartz, 10mm
<b>Flow-cells</b>	
11000492	Flow cell, 10mm, optical glass (central beam height: 15mm)
11000502	Flow cell, 10mm, optical quartz (central beam height: 15mm)
<b>Sipper and Peltier Systems</b>	
11000462	A-101 Sipper System, Holder beam height: 15mm
11000472	A-102 Peltier System, constant-Temperature (Holder beam height: 15mm)
11000482	A-100 Peltier/Sipper System (Holder beam height: 15mm)
<b>IQ-OQ Validation</b>	
11000192	IQ-OQ Manual for UV-20 and UV-30 SCAN spectrophotometers