



Ray Wild Limited Company  
Germany

[www.Raywild-de.com](http://www.Raywild-de.com)

We focus on high quality products with competitive prices and after sales service

## UV2000/2200(UV-VIS) SPECTROPHOTOMETER

### Features :



- Specially designed for industry and labs
- Pre-set wavelength program (4 wavelengths), and one-touch key response
- Single-point curve calibration and multi-point curve calibration (up to 12 points)
- Display of fitting degree of curve fitting and concentration data with up to 50 sets of curve parameters storage
- Display of concentration data with up to 200 sets of data storage
- System clock management/ Dark current calibration/ wavelength calibration/USB data communication
- Data-processing software

Model	UV2000	UV-2200
<b>Optical System</b>	Single beam, C-T type, 1200 lines/mm grating	
<b>Detector</b>	Silicon photo diode	
<b>Light Source</b>	Tungsten lamp (socket type, 20W / 12V, 2000 hours) Deuterium lamp (1000 hours)	
<b>Display Mode</b>	4.3" color LCD, touch screen	
<b>Wavelength Accuracy</b>	±2.0 nm (Calibrate by system automatically )	±1.5nm (Calibrate by system automatically )
<b>Wavelength Range</b>	200 - 1100nm	190 - 1100nm
<b>Spectral Bandwidth</b>	4nm	2nm
<b>Wavelength Repeatability</b>	1.0nm	0.8nm
<b>Stray Light</b>	≤0.5%T (220NaI)	≤0.3%T (220NaI)
<b>Photometric Range</b>	T : -1.0 ~ 200.0%T , A : -0.5 ~ 3.000Abs, F : 0 ~ 9999, C : 0 ~ 9999	
<b>Photometric Accuracy</b>	±0.5%T	±0.3%T
<b>Photometric Repeatability</b>	0.2%T	
<b>Stability</b>	dark current < 0.2%T, bright current < 0.5%T ±0.002A/h	



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## 1. Technical specifications and standard configuration

### 1.1 Technical specification

Model	UV2000	UV2200PC
<b>Monochromator</b>	C-T monochromator, 1200 L/mm holographic grating	
<b>Sensor</b>	silicon photocell	
<b>Display Screen</b>	4.3 inch color touch-screen display, LCD	
<b>Wavelength Calibration</b>	automatic calibration after starting up	
<b>Wavelength Resolution</b>	0.1 nm	
<b>Light Source</b>	deuterium lamp (1000h), tungsten lamp (2000h, 20W/12V)	
<b>Light Switching Point</b>	can be set, 294 nm - 365 nm	
<b>Wavelength Range</b>	200-1000 nm	190-1100 nm
<b>Spectral Bandwidth</b>	4 nm	2 nm
<b>Wavelength Accuracy</b>	±2.0 nm	±1.0 nm
<b>Wavelength Repeatability</b>	1.0 nm	0.5 nm
<b>Measuring Range</b>	0 ~ 200%T, -0.301 ~ 3.000Abs, -9999 ~ 9999C, -9999 ~ 9999F	
<b>Transmittance Accuracy</b>	±0.5 %T	±0.3 %T
<b>Transmittance Repeatability</b>	0.2 %T	0.2 %T
<b>Stray Light</b>	0.5 %T(at 220nm and 360nm)	0.15 %T(at 220nm and 360nm)
<b>Baseline Flatness</b>	/	≤±0.004 Abs
<b>Baseline Drift</b>	≤0.002 Abs / half hour (after warm-up at 500 nm)	
<b>Data Output</b>	USB interface	
<b>UV-Solution Software</b>	/	Windows® - based
<b>Power</b>	220V ± 10% 50Hz 90VA / 110V ± 10% 60Hz 90VA	
<b>Sample Holder</b>	4 trench 50mm adjustable sample holder (10mm, 20mm, 30mm, 40mm, 50mm, position-adjustable)	
<b>Instrument Dimension</b>	470mm X 380mm X 225mm (L*W*H)	
<b>Package Dimension</b>	650mm X 539mm X 370mm (L*W*H)	
<b>Net Weight</b>	10.5 KG	10.5 KG
<b>Gross Weight</b>	14.5 Kg	15.0 Kg

### 1.2 Standard configuration ("•" means have, "/" means do not have)

Name	Quantity	UV2000	UV2200PC
Main Machine	1	•	•
Power Line	1	•	•
Quartz Cuvette (10 mm optical path)	2	•	•
Glass Cuvette (10 mm optical path)	4	•	•
Fuse	2	•	•
Main Machine Instruction	1	•	•
UV-Solution Software	1	/	•
Software Instruction	1	/	•
USB Cable	1	/	•