

**OPTIZEN 3220UV
COMMODITY DESCRIPTION**

HSK NO.	ITEM NO.	DESCRIPTION	Unit	Quantity
9027-30-2000		UV-VIS SPECTROPHOTOMETER		

A. Feature

1. double beam optics
2. For education, research and laboratory works.
3. Modified Czerny–turner type with a high performance
4. Used the Local Software and PC–software
5. Microprocessor controlled Automatic rotary cell holder (8 Cell)
6. As lamp on–off, increasing lamp life–time
7. Data should be converted to excel compatible files for use with spread sheet.
8. Obtained ISO 9001, KT , CE
9. Automatic Lamp Calibration
10. Download recent product updates with Online.
11. Online Operating & checking
12. Windows Xp based operating
13. Touch Screen available(option)
14. UBS memory stick available

B. System configuration

- | | |
|--|-------|
| 1. UV–Vis spectrophotometer (Optizen 3220UV) | |
| 2. Embedded Operating S/W | 1 set |
| 3. 17" TFT LCD monitor | 1 set |
| 4. Mouse, Keyboard | 1 ea |

C. Specification

1. UV–Vis spectrophotometer
 - 1) Spectral band width : < 1nm
 - 2) Wavelength range : 190 – 1100nm
 - 3) Wavelength accuracy : ± 0.3 nm
 - 4) Wavelength repeatability : ± 0.1 nm
 - 5) Monochromator : Modified Czerny–turner type with Blazed grating (lb = 313 2 or 253 7)
 - 6) Photometric system : Double Beam Optics
 - 6) Scan Speed : 300nm/min ~ 3000 nm / min
 - 7) Stray light : <0.05 %T at 220 and 340nm
 - 8) Photometric display range: –0.5 to 4.0A
 - 9) Photometric accuracy : $\pm 0.004A$ at 1 A
 - 10) Photometric reproducibility : $\pm 0.002A$
 - 11) Noise level : < 0.001A around 0A at 220 and 340 nm
 - 12) Drift : 0.002A/hr at 340 nm
 - 13) Stability : ± 0.002 A/h
 - 14) Light Source : Tungsten–halogen lamp and Deuterium lamp (ASB System)
 - 15) Display Mode : 17" TFT LCD Monitor (need to be purchased separately.)
 - 16) Sample holder : Automatic rotary type 8–position multi–cell holder
 - 17) Interface ports : RS–232C and centronics ports for Optizen View
 - 18) Wavelength slew rate : 5000 nm /min
 - 19) Standard capability :
 - Absorbance/ % Transmittance , concentration and file manager

20) Power requirement : 220 V/1A, 60 Hz

2. Application software

1) Standard software (Local control program)

- ABS/%T/Conc. With STC :
 - Display of all data – %T , Abs, Concentration
 - Measure absorbance at up to 10 wavelengths
 - Multi selectors 1 to 7 cell number
 - Save Methods up to 999 each
 - selected unit
 - single–point calibration curve (zero or Non–zero) , or multipoint calibration curve (1st ~ 3rd order regression curves or segmented standard curve).
 - Manual standard curve : input concentration and Abs up to 30
 - Save data in Excel form.
 - Measure different wavelengths for each cell holder.
 - Manually delete the wrong datum when first make calibration curve.
- Survey scan :
 - scan resolution : up to 0.1nm
 - Save methods, up to 999 each
 - Scale mode–manual, auto, cursor, peaks valleys
 - Abs. <--> %T conversion
 - graph manipulation mode
 - Make Calibration curve by multi scanning data
 - curve fitting mode
 - Save data in Excel & BMP form
 - Peak/Valley auto detection
- Simple Kinetics :
 - Measurement time : total time: 3hr, interval time : ≥ 1 sec
 - data view type : graph or table
 - Scale mode–manual, auto, cursor, peaks valleys
 - Abs. <--> %T conversion
 - graph manipulation mode
 - Peak/Valley auto detection
 - Save data in Excel & BMP form
 - Save methods, up to 999 each
- Online S/W upgrade
- save data up to 40,000
- editable report form
- A/S Special Mode:
 - Auto–check : Halogen lamp,Deuterium lamp,Wavelength calibration
 - Wavelength user setup : correct for wavelength calibration
- Customize mode :
 - water quality test
 - Pesticides Residue test
 - Soil analysis
 - Eps Mode & thin film thickness measure Mode(PCB)

D. Accessories

1. Standard Quartz cell(2/pk) 1ea

E. Remark

1. Manual, Program software, tools are provided.
2. one year Warranty