

## FUV/FV-1000

## FUV/FV1200 UV/Vis Spectrophotometer

### Feature

- LCD display and support U disk data saving. (USB output).
- Long life and environmental deuterium lamp and tungsten lamp.
- High performance grating with High-precision optical system design.
- Pre-aligned design ensures the user can change lamps conveniently.
- Wavelength calibration automatically.
- With SiO<sub>2</sub> coating optical mirror.
- Connect the computer to control the operation of the instrument.



### Basic Functions

#### 1, Photometry (Basic)

Test Abs., Transmittance by fixed wavelength

#### 2, Quantitative (Qty)

- C Mode: Establish  $C=K \cdot A$  curve, test sample concentration
- F Mode: Establish  $A=K_1 C + K_0$ , test sample concentration
- Display and save curve, test data (FV-1200).

#### Basic Mode

|           |   |   |   |
|-----------|---|---|---|
| WL: 546.0 |   |   |   |
| T: 100.0  |   |   |   |
| A         | T | C | F |

#### Con. Test $C=K \cdot A+B$

|           |   |   |   |
|-----------|---|---|---|
| WL: 546.0 |   |   |   |
| C: 10C    |   |   |   |
| A         | T | C | F |

### Technical Parameters

| Model                     | FUV-1000  | FV-1000    | FUV-1200   | FV-1200    |
|---------------------------|---|------------|------------|------------|
| Optical System            | Single Beam,Grating 1200 lines/mm                                   |            |            |            |
| Wavelength Range          | 200-1020nm  | 325-1000nm | 200-1020nm | 320-1020nm |
| Spectral Bandwidth        | 4nm (optional 2nm)  |            |            |            |
| Wavelength Accuracy       | ± 1.8nm   |            | ± 1.0nm    |            |
| Wavelength Repeatability  | ≤0.5nm  |            |            |            |
| Photometric Accuracy      | ±0.002A(0-0.5Abs),±0.004A(0.5-1.0Abs),±0.5% T(0-100% T)             |            |            |            |
| Photometric Repeatability | 0.001Abs(0-0.5Abs),0.002Abs(0.5-1.0Abs),≤0.2% T (0-100% T)          |            |            |            |
| Stray Light               | ≤0.02% T @ 360nm;220nm(220nm for UV only)                           |            |            |            |
| Stability                 | ±0.002A/h @ 500nm(UV)   |            |            |            |
| Noise                     | 0.001A  |            |            |            |
| Display                   | 128*64 Dots LCD   |            |            |            |
| Photometric Mode          | T,A,C,E   |            |            |            |
| Photometric Range         | 0-200% T ,-0.301-3.0A   |            |            |            |
| Detector                  | Silicon Photodiode  |            |            |            |
| Light Source              | Deuterium Lamp,Tungsten Lamp  |            |            |            |
| Input                     | Membrane Keypad   |            |            |            |
| Output                    | UBS-A , USB-B   |            |            |            |
| Compartment               | Optional Solid sample holder,Micro cell holder,10-100mm cell holder |            |            |            |