



Features:

- Large LCD screen (128*64 Dots) with saving standard curve function
- Imported & Environmental Deuterium lamp, preventing from Ozone inhalation
- Adopted high-class grating with wholly hermetic light path design, to ensure the instrument has the super low stray light
- Real-time monitoring the lifetime of Deuterium lamp and Tungsten lamp with advanced system
- Pre-aligned design ensures the user can change lamps conveniently
- Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically
- With SiO₂ coating optical mirror, reducing the pollution from outside fully
- Optional PC Software to expand the applications to Quantitative, Multi-Wavelength and Kinetics
- Widely used for Organic chemistry, Inorganic chemistry, Life sciences, foods, Medicine and health, Agriculture, Geology, Metallurgy and Environment etc. fields

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 $A=K_1 \cdot C + K_0$, test sample concentration
- Display and save curve, test data (V-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 |

Specifications

| 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 | | | |
| 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 | ≤ 0.2 % T @ 360nm; 220nm (220nm for UV only) | | | |
| Stability | ± 0.002A / h @ 500nm | | | |
| 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 | USB–A, USB–B | | | |
| Compartment | Optional Solid Sample Holder, Micro Cell Holder, 10–100mm Cell Holder | | | |