

1. **Power on:** Turn the power switch on the back of the main unit.
2. **Warm up (for better performance):** After the self-testing, if all the items are OK, let the main unit warm up for about 20 min.
3. **Dark Current Correction:** After warm up, in the main menu, select “☉System”/“☉Dark Current” then press “ENTER” for dark current correction.
4. **Clean cuvette:** Take out clean cuvettes.
5. **Sample test:** Press “RETURN” to the main menu, select the test mode and perform the test as follows:

→**Photometry (get the sample's Abs or %T directly):**

- (1) **Set parameter:** On photometry menu, press “GOTO λ ”(set the wavelength) →press “SET” to select %T ,Abs → press “RETURN” to photometry menu;
- (2) **Blank sample measurement:** Put blank sample solution into a cuvette → put the cuvette to the cells holder → press “Zero” to calibrate the blank sample;
- (3) **Sample measurement:** take the cuvette out and put the sample solution to it → put the cuvette to cells holder → press “START/STOP” to do sample measurement;
- (4) **Report:** print or write down the test result.

→**Quantitation (get the concentration of unknown sample, using method of “Standard Curve”)**

- (1) **Set parameter:** Select “Quantitation” → press “ENTER” → go into the method (choose “Standard Curve”) → press “ENTER” →press “GOTO λ ”(set the wavelength);
- (2) **Blank sample measurement:** Put blank sample solution to one cuvette → put the cuvette to the cells holder → press “Zero” to calibrate the blank sample;
- (3) **Standard samples measurement:** press “SET” → set the concentration unit → set the standard number →set the concentration of standard samples → put the standard samples solution(from low to high) to the cuvette, put the cuvette to the holder and then input the concentration → After all the standard samples measurement, it will return to the “set” menu, press “RETURN” to test menu (If you want to check the curve, you can select “Display curve” on standard curve set menu);
- (4) **Sample measurement:** take the cuvette out and put the sample solution to it → put the cuvette to cells holder → press “START/STOP” to do sample measurement;
- (5) **Report:** print or write down the test result.

→ Quantitation (get the concentration of unknown sample, using method of "Coefficient")

- (1) **Set parameter:** Select "Quantitation" → press "ENTER" → go into the method (choose "Coefficient") → press "ENTER" → select the formula → press "ENTER" → press "GOTO λ "(set the wavelength);
- (2) **Blank sample measurement:** Put blank sample solution into a cuvette → put the cuvette to the cell holder → press "Zero" to calibrate the blank sample;
- (3) **Coefficient setting:** press "SET" → set coefficient K → set coefficient B → set concentration unit → press "ENTER" → press "RETURN" to the test menu;
- (4) **Sample measurement:** take the cuvette out and put the sample solution to it → put the cuvette to cells holder → press "START/STOP" to do sample measurement;
- (5) **Report:** print or write down the test result.

→ Kinetics (Suitable for dynamic analysis and samples stability test)

- (1) **Set parameter:** Select "Kinetics" → press "GOTO λ "(set the wavelength) → press "SET" → set time interval, total time, test mode, upper limit, lower limit → press "RETURN" to the test menu;
- (2) **Blank sample measurement:** Put blank sample solution to one cuvette → put the cuvette to the cells holder → press "Zero" to calibrate the blank sample;
- (3) **Sample measurement:** take the cuvette out and put the sample solution to it → put the cuvette to cells holder → press "START/STOP" to do sample measurement;
- (4) **Report:** Print or write down the test result.

6. **Power off:** After the test, power off the main unit and clean the cuvette.

NOTE

- ◆ Before use this quick manual, please read the HALO SB-10 UV-Vis Spectrophotometer instruction manual carefully
- ◆ Detailed operation and other measuring function can refer to < HALO SB-10 UV-Vis Spectrophotometer instruction manual>;
- ◆ The quick instruction manual only suitable for the SB-10 instrument with standard configuration.