

1. **Start:** Turn on the power switch on the left of the main unit.
2. **Warm up (for better performance):** After the initialization of the main unit, if all the items are OK it will go to the main menu, press "Autozero" on the keypad, let the main unit warm up for about 30 min.
3. **Dark Current Correction:** After warm up, in the main menu, press **4** "System" → **5** "0%T" for dark current correction.
4. **Sample and reference cuvette:** Prepare two clean cuvettes
5. **Sample test:** Press "Main Menu" to the main menu, select the right test mode and do the test as follows:

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

- (1) **Set parameter:** Press "Main Menu" to main menu, select **1** "Photometry" → **1** %T/ABS → set the number of wavelength the wavelength and the data mode → press **0** "End setting";
- (2) **Blank sample measurement:** Put blank sample solution to one cuvette → put the cuvette to the cell holder → press "START" to calibrate the blank sample.
- (3) **Sample measurement:** take the cuvette out and put the sample solution to it → put the cuvette to cell holder → press "START" to do sample measurement;
- (4) **Report:** print or write down the test result.

→ **Photometry (get the concentration of unknown sample)**

- (1) **Set parameter:** Press "Main Menu" to main menu, select **1** "Photometry" → **3** Concentration → set the parameter of standard samples such as the concentration of standard samples, the mode of standard curve → press **0** "End setting";
- (2) **Blank sample measurement:** Put blank sample solution one cuvette → put the cuvette to the cell holder → press "START".
- (3) **Standard samples measurement:** take the cuvette out → put the standard sample solution (from low to high in turn) to it → put the cuvette to cell holder → press "START" to sample measurement. After all the standard samples measurement, press **1** "Graph" to check the standard curve → press **4** "Process" to check some data about the curve such as R.
- (4) **Unknown concentration sample measurement:** After the standard sample measurement, press **2** "Measure" to the test interface → take the cuvette out and put the sample solution to it → put the cuvette to cell holder → press "START" to do sample measurement;
- (5) **Report:** print or write down the test result.

→ Wavelength Scan (get the peak or valley of the sample)

- (1) **Set parameter:** Press “Main Menu” to main menu → select **2** “Wavelength Scan” → set parameter such as scan scale and scan speed) → press **0** “End Setting” to confirm the parameter.
- (2) **Baseline measurement (blank sample calibration):** Put blank sample solution to one cuvette → put the cuvettes to the cell holder → press “START” to calibrate the baseline;
- (3) **Sample measurement:** take the cuvette out and put the sample solution to it → put the cuvette to cell holder → press “START” to do sample measurement;
- (4) **Report:** Print or write down the test result.

→ Time Scan (Suitable for dynamic analysis and samples stability test)

- (1) **Set parameter:** Press “Main Menu” to main menu, select **3** “Time Scan” → set parameter such as wavelength and scan time) → press **0** “End setting” to confirm the parameter;
- (2) **Blank sample measurement:** Put blank sample solution to one cuvette → put the cuvette to the cell holder → press “AutoZero” to calibrate the blank sample.
- (3) **Sample measurement:** take the cuvette out and put the sample solution to it → put the cuvette to cell holder → press “START” 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 RB-10 UV-Vis Spectrophotometer instruction manual carefully
- ◆ Detailed operation and other measuring function can refer to < HALO RB-10 UV-Vis Spectrophotometer instruction manual>;
- ◆ The quick instruction manual only suitable for the RB-10 instrument with standard configuration.