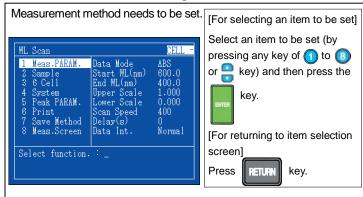
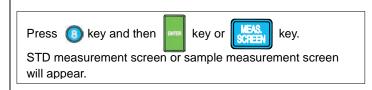
Wavelength Scan Measurement

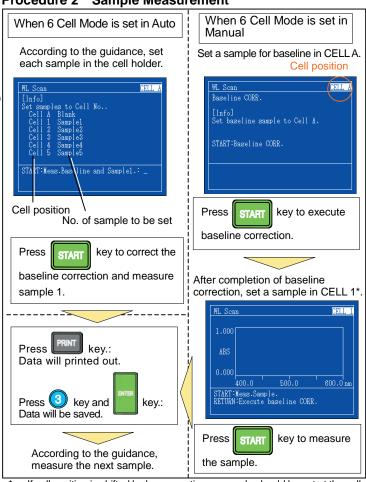
Procedure 1 Method Setting



- 1. Meas.PARAM. (setting of data mode, wavelength, etc.) (Setting of ordinate unit of spectrum) [Data Mode] [Scan] (Setting of wavelength shift speed in measurement. Data interval is wider at higher speed and narrower at lower speed.) [Data Int.] (Setting of data acquisition interval)
- 2. Sample (setting of sample name) 3. 6 Cell (setting of 6-cell turret motion) 4. System (setting of response) 5. Peak PARAM. (setting of peak detection threshold and
- sensitivity) 6. Print (selection of items to be printed)
- 7. Save Method (saving of measurement method)

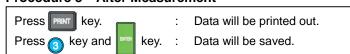


Procedure 2 Sample Measurement



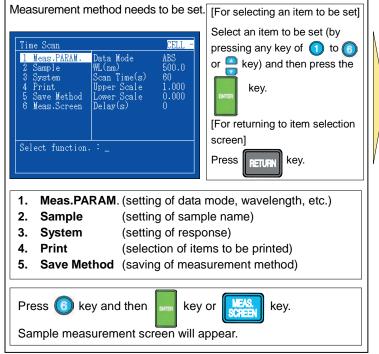
If cell position is shifted by key operation, a sample should be set at the cell position indicated at the top right of the display screen.

Procedure 3 After Measurement

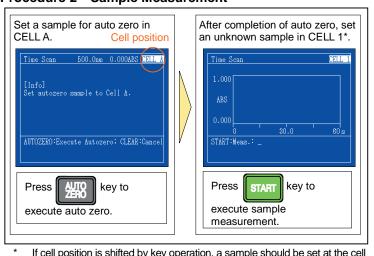


Time Scan Measurement

Procedure 1 Method Setting

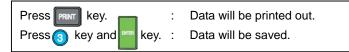


Procedure 2 Sample Measurement



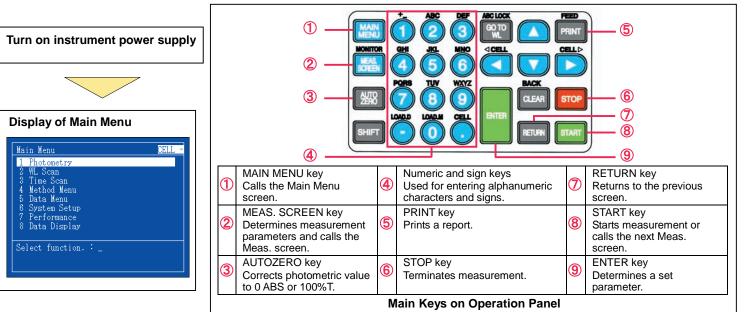
If cell position is shifted by key operation, a sample should be set at the cell position indicated at the top right of the display screen.

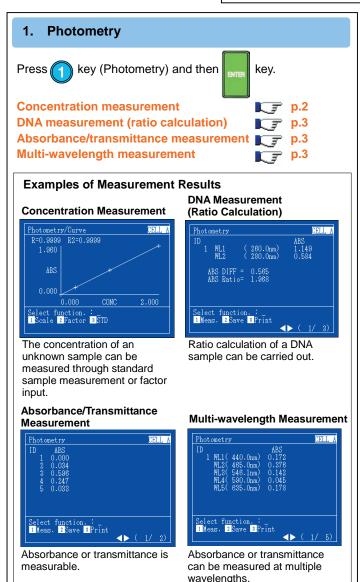
Procedure 3 After Measurement

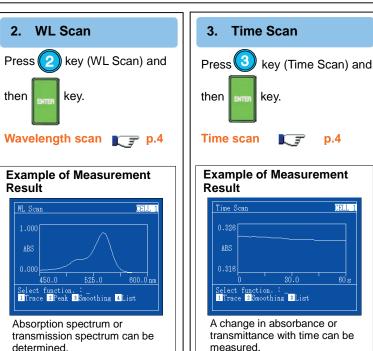


Model U-5100 Ratio Beam Spectrophotometer Operation Card

- This operation card explains the typical operation flow of Model U-5100 as an example. For details of operation, refer to the instruction manual of Model U-5100 ratio beam spectrophotometer.
- This operation card does not contain the precautions for safety which are given in the U-5100 instruction manual. The precautions for safety are collectively given in "SAFETY SUMMARY" in the instruction manual. Be sure to read "SAFETY SUMMARY."







4. Method Menu : Loads/deletes the saved measurement

5. Data Menu : Loads/deletes the saved data.

method.

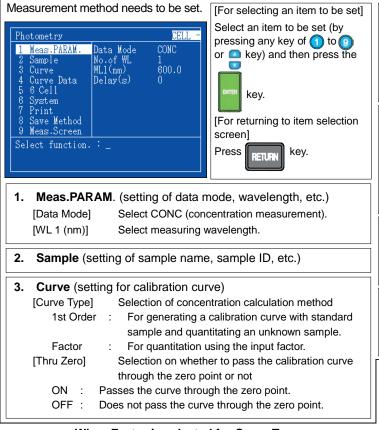
6. System Setup: Executes system setup, wavelength calibration, etc.

7. Performance : Checks instrument performance.

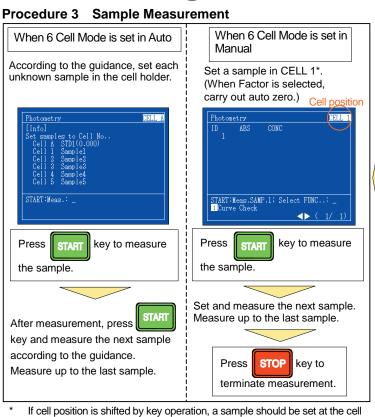
8. Data Display : Displays enlarged photometric values on the display.

Concentration Measurement

Procedure 1 Method Setting



When Factor is selected for Curve Type:



position indicated at the top right of the display screen.

Procedure 4 After Measurement



Curve Data (setting of STD concentration or factor) When 1st Order is selected for

[Curve Type]:

Enter the concentration of standard sample

When Factor is selected for [Curve Type]:

[A0] Y intercept value of calibration curve

key.

curve

Slope value of calibration

5. 6 Cell (setting of 6-cell turret motion)

When [6 Cell Mode] is set in Auto: **ISTD** Autozerol

STD1: To be set for using STD1 sample for auto zero

To be set when an exclusive sample is used for auto zero, i.e., it is not used as a standard.

6. System (selection of how to express calibration curve formula)

7. Print (selection of items to be printed)

8. Save Method (saving of measurement method)

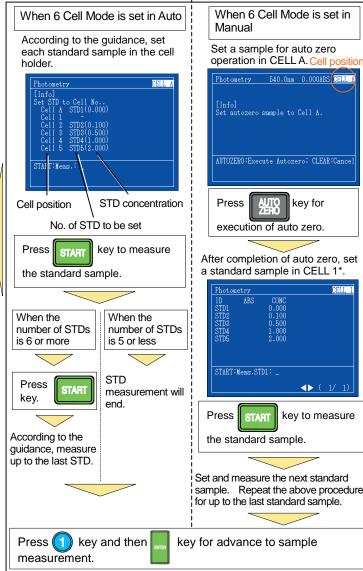
Press (n) key and then



STD measurement screen or sample measurement screen will

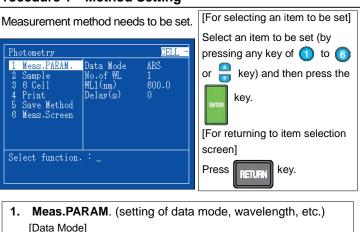
When 1st Order is selected for Curve Type:

Procedure 2 STD Measurement



Absorbance/Transmittance Measurement, Multi-wavelength Measurement and **DNA Measurement (Ratio Calculation)**

Procedure 1 Method Setting



ABS To be set for absorbance measurement. %Т To be set for transmittance

measurement

To be set for DNA measurement (ratio DNA Measurement:

calculation).

2. Sample (setting of sample name, sample ID, etc.)

3. 6 Cell (setting of 6-cell turret motion)

When [6 Cell Mode] is set in Auto:

[SAMP. Autozero]

Press (6) key and then

ON: To be set for automatic execution of auto zero

operation (using CELL A).

To be set for avoiding automatic execution of auto zero.

kev or

(selection of items to be printed)

5. Save Method (saving of measurement method)

the sample.

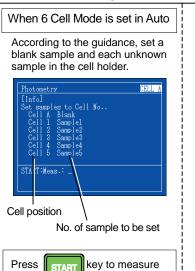
After measurement, press

according to the guidance.

Measure up to the last sample

key and measure the next sample

Procedure 2 Sample Measurement



Set the sample in CELL 1* after completion of auto zero.

execute auto zero

When 6 Cell Mode is set in

otometry 540.0nm 0.000ABS CELL A

Set a sample in CELL A.

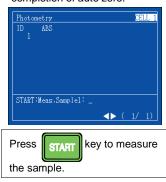
et autozero sample to Cell A.

JTOZERO:Execute Autozero; CLEAR:Can

key to

Manual

Press



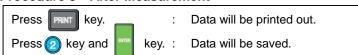
Measure up to the last sample

Set and measure the next sample

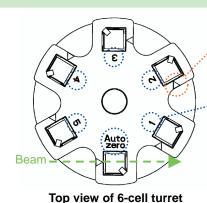


If cell position is shifted by key operation, a sample should be set at the cell position indicated at the top right of the display screen.





How to Place Cells (For details, refer to "cell placing method" in 2.4.4 of Model U-5100 instruction manual.)



Sample measurement screen will appear.

Indication of beam entrance side

The beam for measurement enters each cell from the side marked with a triangle (\triangle).

Therefore, the beam transmission path of the cell must be aligned with the triangle when placing the cell.

Name of cell position

The "Autozero" marking stands for the cell position where auto zero will be carried out. If you attempt to use this position for measurement, "CELL A" is indicated as the present cell position at the top right of the display screen.

Numeric markings 1 to 5 denote cell positions for sample measurement. One of CELL 1 to CELL 5 will be indicated as the present cell position at the top right of the display screen.



measurement position



CFLL 1 is placed at the measurement position

Present Cell Position Indicated at Top Right of Display