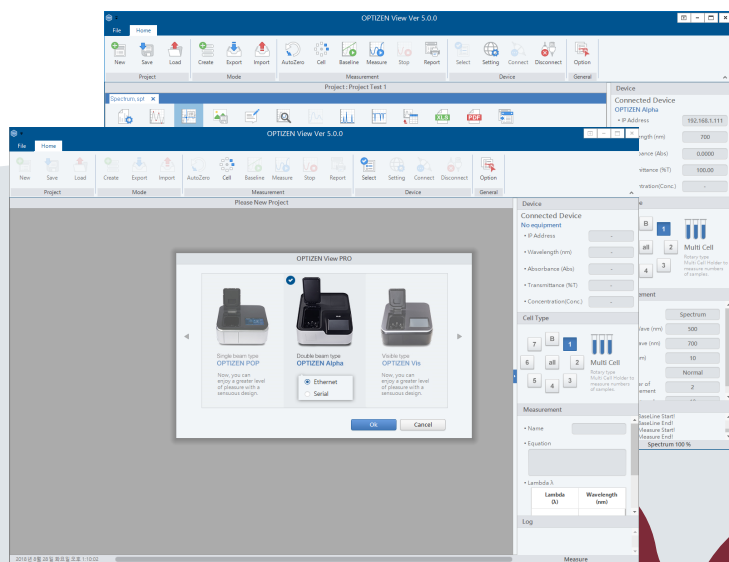


UV/VIS Spectrophotometer View

User's guide
Basic operation guide



View

User Guide

K LAB PC Software
View
User's guide

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Overview

Thank you for purchasing View.

This user's guide describes how to install and operate, and details of precautions for use. Please read this user's guide carefully before using the program, and use the product according to the instructions. Also, please keep this user's guide properly so that you can refer to it when using the program.

Important note

Please keep this user's guide with the product.

If program modification or re-installation is needed, please contact the K LAB customer service center.

If the user's guide is lost or damaged, please contact the K LAB customer service center.

Copyright

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- All related materials in this guide should not be modified or distributed in any form without the prior consent of K LAB.

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Ch. 1

Overview and general information

- 1-1 Getting started with View
- 1-2 Installing View
- 1-3 Screen Overview
- 1-4 Cell type settings
- 1-5 Connecting the equipment

1-1 Getting started with View

1) Overview

View 5 is a Windows-based PC program that can be used to control the operation and data of Alpha spectrophotometers using the general PC.

2) Before you start

View 5 is software for the PC interface of Alpha(double beam) spectrophotometers, which enables the user to check the sample measurement result in real time in the Windows environment and manage the overall equipment and measurement more easily.

3) Recommended specifications

Name of item	Minimum specifications	Recommended specifications
Operating	Windows® 7, 8, 10	Windows® 7, 10
Processor	Intel® Pentium® D or AMD™ Athlon®™ 64 X2	Intel® Core 2 Duo E6600 (2.4 GHz) or AMD™ Athlon™ 64 X2 5000+ (2.6 GHz) Or higher
Video	NVIDIA® GeForce; 6800 (256 MB) or ATI™ Radeon™ X1600 Pro (256 MB) or higher	NVIDIA® GeForce; 8800 GT (512 MB) or ATI™ Radeon™ HD 4850 (512 MB) or higher
Memory	2 GB RAM	4 GB RAM
Capacity	Free hard drive space of 1GB or more	Free hard drive space of 1GB or more
Resolution	At least 1920 x 1080 display resolution	1920 x 1080 display resolution or higher

1-2 View Installation

1) Installation

Find and execute the View 5 installation file (Setup.exe).

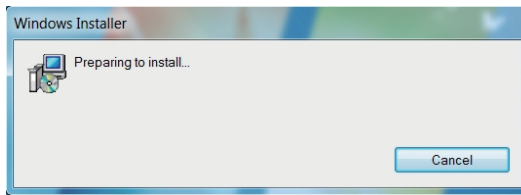
*Download the View.zip file from the enclosed View installation CD or from the website.



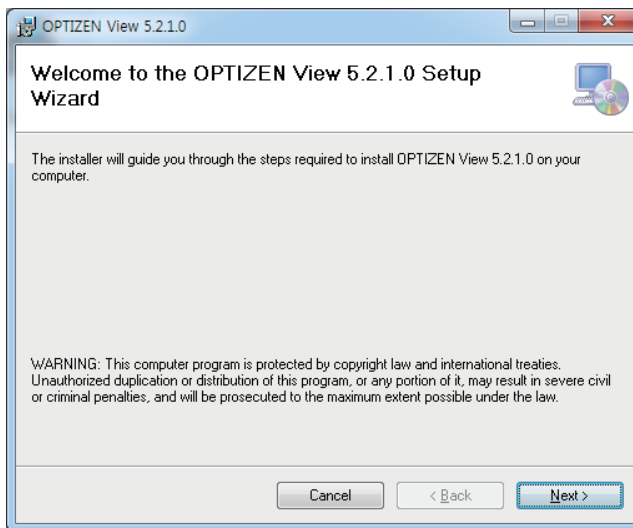
Setup.exe

* The appearance of the Setup.exe icon in this guide may be different from what you see. Please check again.

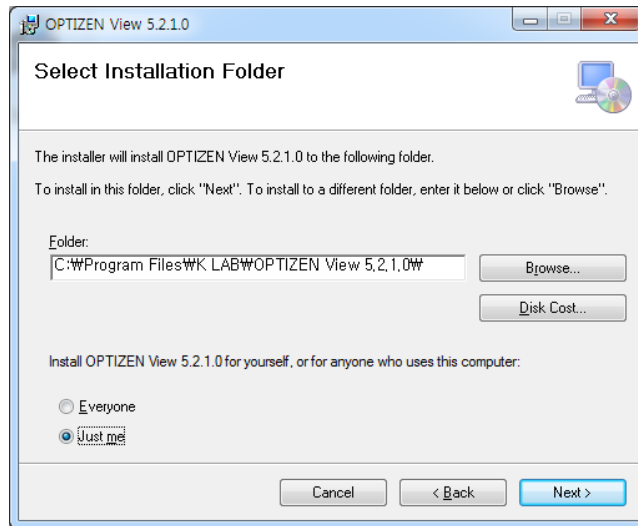
2) Progress



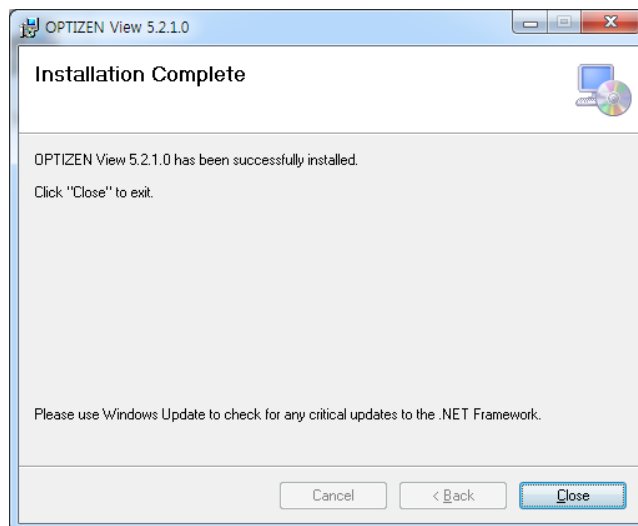
1. Prepare View installation.
2. Click the [Cancel] button to stop installation.



3. Select a folder to install View.
- * Click the [Next] button to use the default folder location suggested by View, or click the [Browse] button to change the installation folder and install View. Click the [Cancel] button to stop installation.



4. Install the program in the folder set by View.



5. The entire setup process is completed normally, and a new View icon is added on the desktop.

6. Click the [Close] button to finish View installation.

3) Matters to check after installation

Checking to see whether View is installed correctly.

Check to see whether the following folder is created in the hard disk drive after installation to see if the program is properly installed.

If installed in the default folder

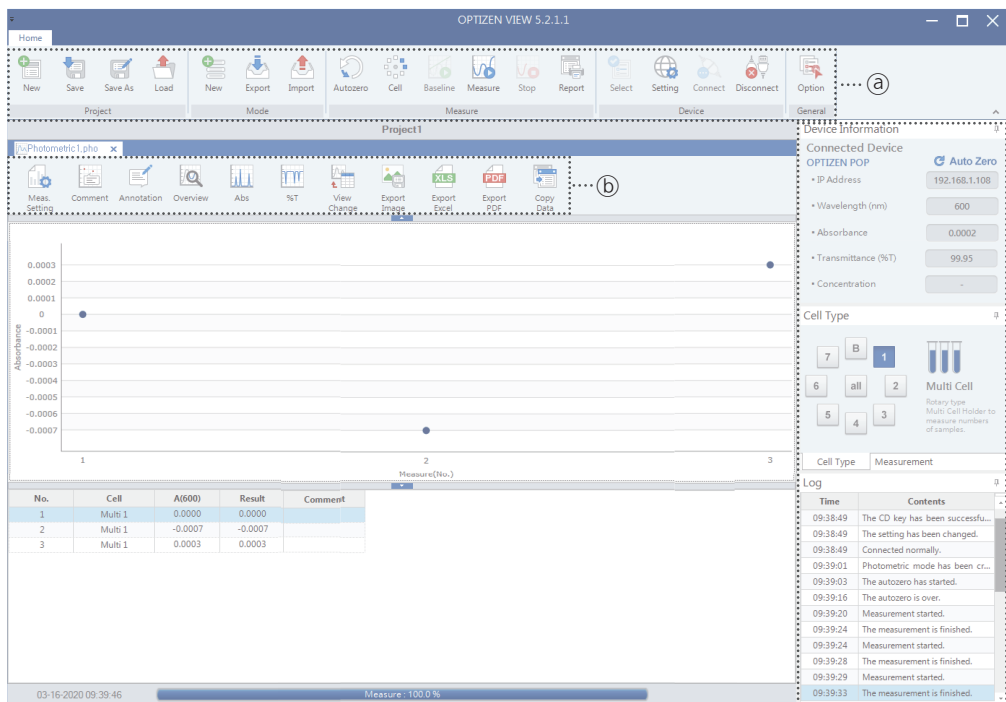
C:/Program Files/K LAB/View

* "5.0" at the end of View 5 indicates the product version for management and is subject to change without prior notice.

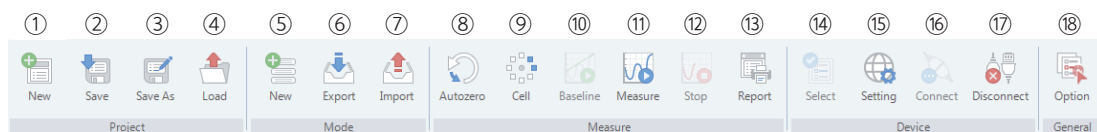
1-3 Screen Overview

Ch.1

1) Main screen

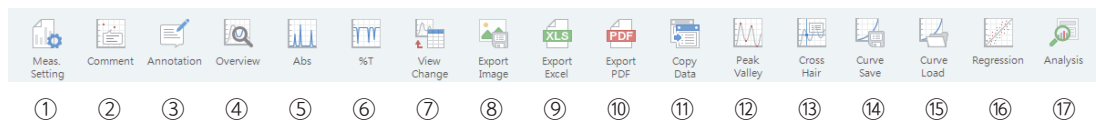


2) The main tool box

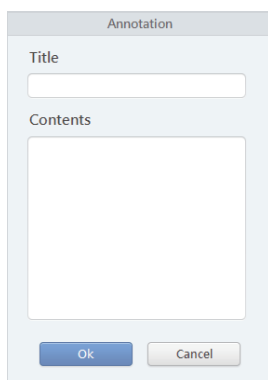


- ① Create project
- ② Save project
- ③ Save as project
- ④ Load project
- ⑤ Create mode
- ⑥ Export mode
- ⑦ Import mode
- ⑧ [AutoZero]
- ⑨ Select cell type
- ⑩ [Baseline]
- ⑪ Start measurement
- ⑫ Stop measurement
- ⑬ PreView report format/Print
- ⑭ Select connection equipment
- ⑮ Set connection equipment
- ⑯ Connect equipment
- ⑰ Disconnect equipment
- ⑱ Program settings

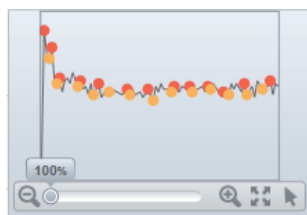
3) The mode tool box



- ① Measurement Settings - Changes measurement settings that were set when creating a mode.
- ② Comment - Displays a comment on the chart.
- ③ Annotation - Adds a memo that will be displayed on the chart.
- ④ Overview - Displays Overview at the bottom right of the chart.
- ⑤ Abs - Displays data as absorbance.



[Executing "Annotation"]

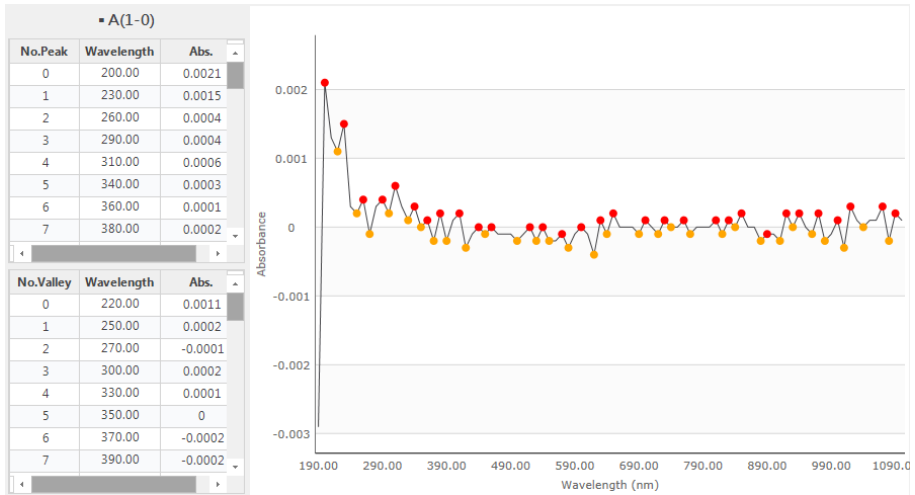


[Executing "Overview"]

- ⑥ %T - Displays data as transmittance.
- ⑦ View Change - Changes the output format to (chart + table), (chart), and (table).
- ⑧ Export Image - Export the chart as a PNG format file.
- ⑨ Export Excel - Outputs the data in Excel format.
- ⑩ Export PDF - Outputs the data in PDF format.
- ⑪ Data copy - Copies the measurement data and applies to another program.
- ⑫ Peak Valley - Checks the peak/valley. (Applicable to spectrum mode only)
- ⑬ Cross Hair - Checks the data at the cursor position. (Applicable to Spectrum and Kinetics modes only)
- ⑭ Curve Save - Saves the standard curve. (Applicable to quantitation mode only)
- ⑮ Curve Load - Opens the standard curve. (Applicable to quantitation mode only)
- ⑯ Regression - Checks the formula and R2 of the generated standard curve. (Applicable to quantitation mode only)
- ⑰ Analysis - From the measured data over time, analysis of absorbance change rate and enzyme activity value according to the enzyme reaction available. (Kinetics mode only)

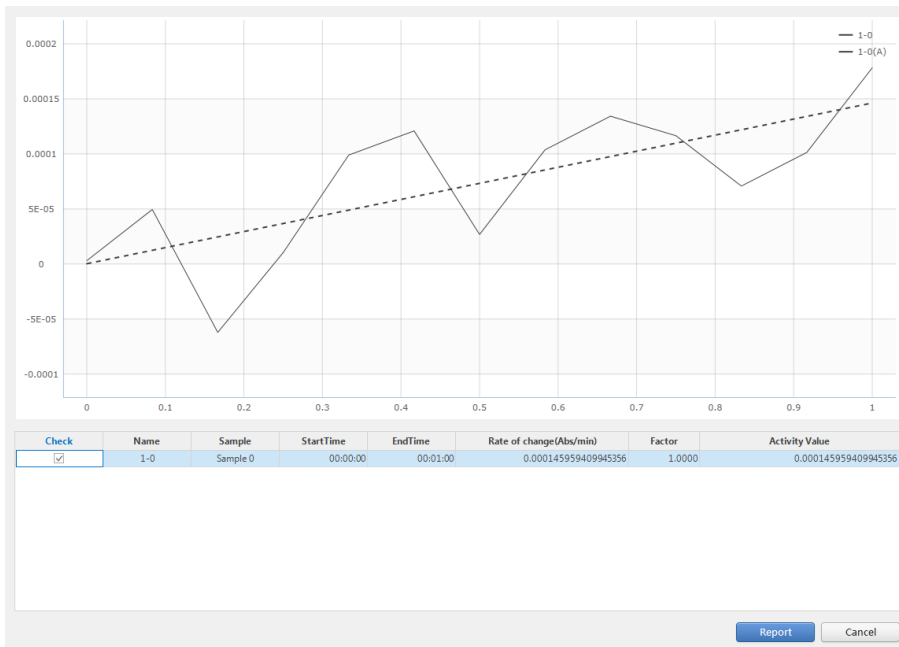
Peak Valley

Checks the peak/valley. (Applicable to spectrum mode only)



Analysis

From the measured data over time, analysis of absorbance change rate and enzyme activity value according to the enzyme reaction available. (Kinetics mode only)



4) Settings page

Device Information

Connected Device: **OPTIZEN POP** **Auto Zero**


- IP Address: 192.168.1.103
- Wavelength (nm): 600.00
- Absorbance: 0.0002
- Transmittance (%T): 99.96
- Concentration: -

Cell Type

7 B 1

6 all 2

5 4 3



Multi Cell

Rotary type
Multi Cell Holder to
measure numbers
of samples.

Cell Type

Measurement

Log

Time	Contents
17:02:17	The baseline is over.
17:03:51	The baseline has started.
17:04:10	Spectrum mode has been creat...
17:04:12	The baseline has started.
17:05:13	The baseline is over.
17:05:46	Measurement started.
17:06:48	The measurement is finished.
17:14:46	Kinetics mode has been created.
17:14:48	The autozero has started.
17:15:06	The autozero is over.
17:15:09	Measurement started.
17:16:14	The measurement is finished.

- ① Connection IP - Displays the IP of the connected device.
- ② Current wavelength - Displays the wavelength of the current location.
- ③ Current absorbance - Displays the absorbance of the object that is currently being measured.
- ④ Current transmittance - Displays the transmittance of the object that is currently being measured.
- ⑤ Current concentration (activated only in quantitation mode) - Displays the concentration of the object that is currently being measured.
- ⑥ Cell type window - Selects a cell number to measure.
* In the case of multiple cells, the cell number to measure can be changed in the middle of measurement using the cell selection window.
* Refer to "1-4 Cell type settings."
- ⑦ Measurement window - Displays the current measurement environment.
- ⑧ Message window: Displays the measurement result, error message, etc.

Measurement

None

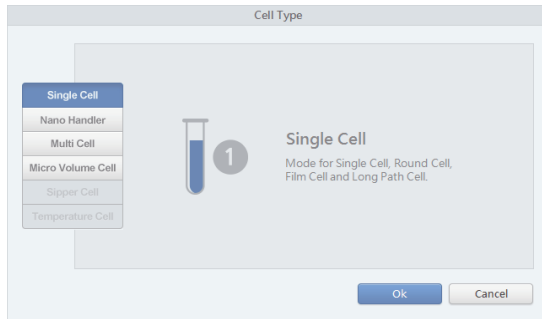
Cell Type

Measurement

1-4 Cell type settings

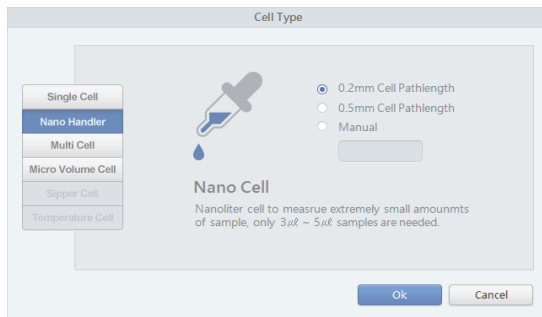
Ch.1

A cell type can be selected as shown in the figure below, if you select [Cell] in the toolbar window on the main screen. Select a cell type to measure and proceed with measurement. * The range of cell type selection may vary depending on the equipment.



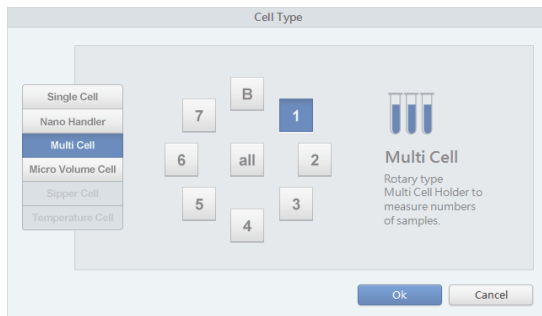
Single Cell

Select to use the Single Cell, Round Cell, Film Cell or Long path Cell.



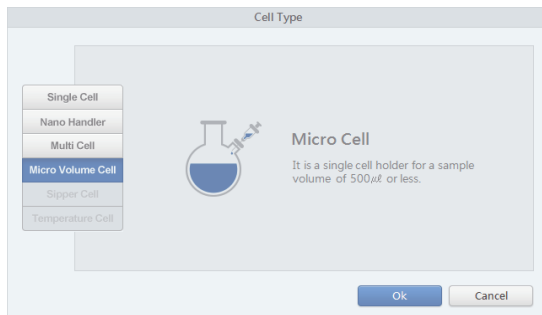
Nano Handler

Select to use the nano handler.



Multi Cell

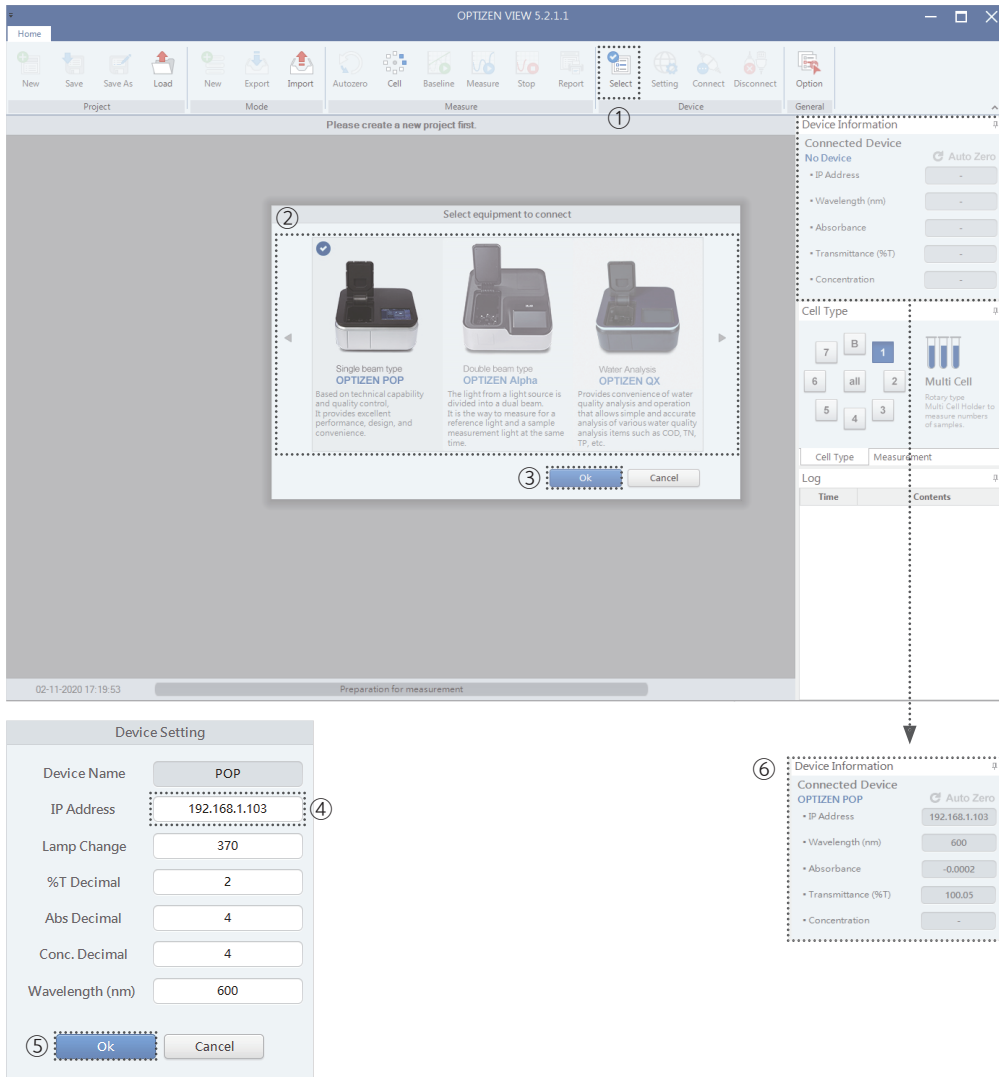
General purpose measurement mode that uses a rotating-type multi cell holder. (Model used by the multiple cell holder by default)



Micro Volume Cell

Select to use the micro volume cell.

1-5 Connecting the equipment



1. Press [Connect PC] or [PC Link] on the equipment.
2. Click the Device - ① [Select] button in the PC program.
3. Click the ③ [OK] button after selecting the equipment to use (②).
4. Check the IP address displayed on the equipment, and input the address in the input field of the PC program (④), and then click the ⑤ [OK] button.
5. If the equipment is successfully connected, the result of equipment connection can be checked (⑥).

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Ch. 2

Using View

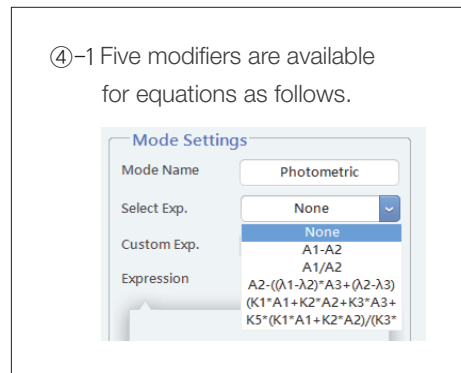
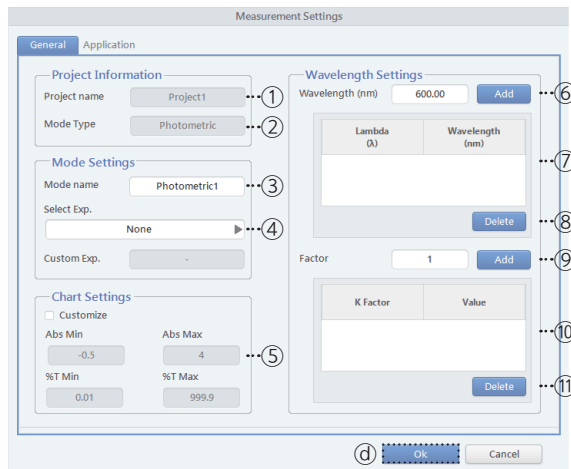
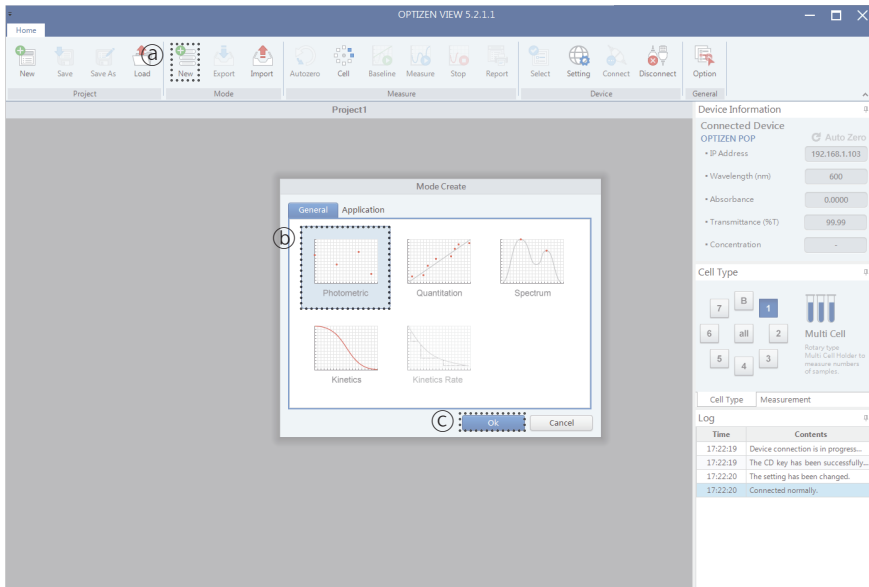
- 2-1 Photometric Mode
- 2-2 Quantitation Mode
- 2-3 Spectrum Mode
- 2-4 Kinetics Mode
- 2-5 Printing a report (Common)

2-1 Photometric Mode

1) Overview

Photometric mode provides the function of measuring and displaying absorbance, transmittance, and concentration of a single or multiple wavelengths.

2) Screen composition



- ① Project name, ② Mode type, ③ Mode name, ④ Equation selection window, ⑤ Y-axis spacing setting by item, ⑥ Wavelength input window and [Add] button, ⑦ Added wavelength check table, ⑧ Selected wavelength deletion button, ⑨ Factor adding button, ⑩ Added factor check table, ⑪ Selected factor deletion button

3) Creating a mode

1. Connect the equipment and create a project. * Refer to “1-5 Connecting the equipment”
2. Click [Create] (㉑).
3. Select the [Photometric] mode (㉒) and click the [OK] button (㉓).
4. Select the formula of the result value to measure (㉔). (If it is “None,” the λ_1 value will be selected as the result value)
5. Input and add the wavelength to measure (㉕).
6. Input and add the factor (㉖).
7. When measurement settings are complete (㉗), click the [OK] button to finish settings.

4) Taking measurement

The screenshot shows the OPTIZEN VIEW 5.2.1.1 software interface. The main window displays a graph of Absorbance vs. Measure(No.) and a table of measurement results. The 'Device Information' panel on the right shows settings for Wavelength (600 nm), Absorbance (0.0002), Transmittance (99.94%), and Concentration (-). The 'Cell Type' panel shows 'Multi Cell' selected. The 'Log' panel shows a list of events including 'Connected normally', 'Photometric mode has been started', and 'The measurement is finished'.

No.	Cell	Abs000	Result	Comment
1	Multi 1	0.0000	0.0000	
2	Multi 1	-0.0007	-0.0007	
3	Multi 1	0.0003	0.0003	
4	Multi 1	0.0003	0.0003	

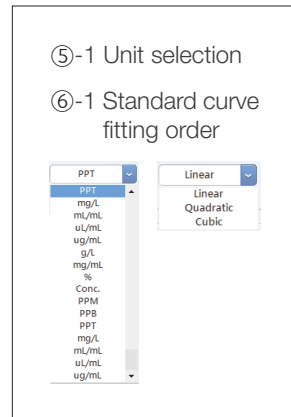
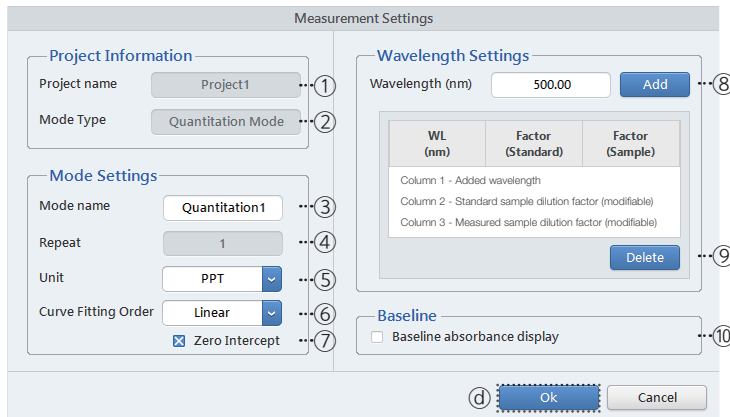
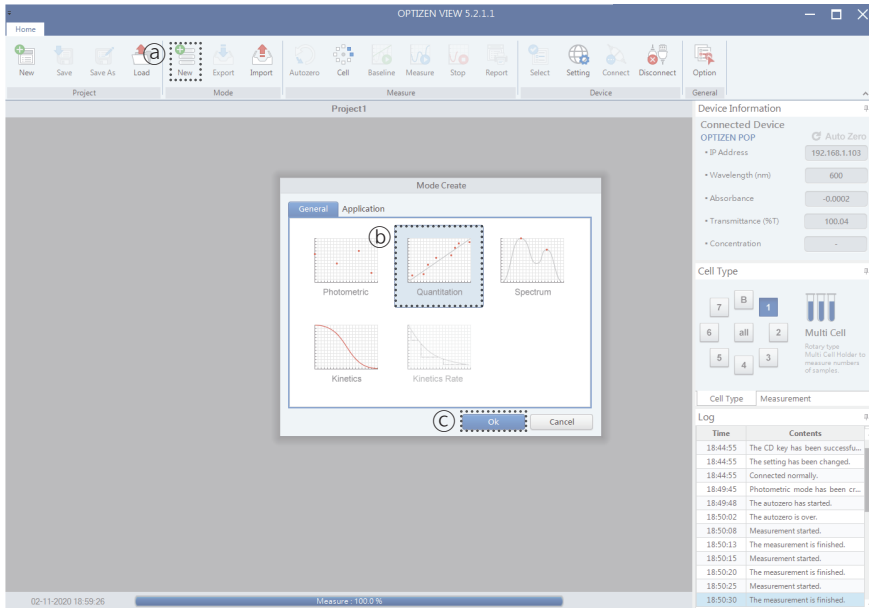
1. Select a cell to measure (㉘).
2. If the factor is entered, the result of multiplying with the factor will be displayed on the “Result” row.
3. Click AutoZero and perform correction for accurate measurement.
4. Click Measure (㉙) to start measurement and the measured values will be displayed on the table and chart.

2-2 Quantitation Mode

1) Overview

Quantitation mode provides the function of creating a calibration curve at a set wavelength and measures the concentration.

2) Screen composition



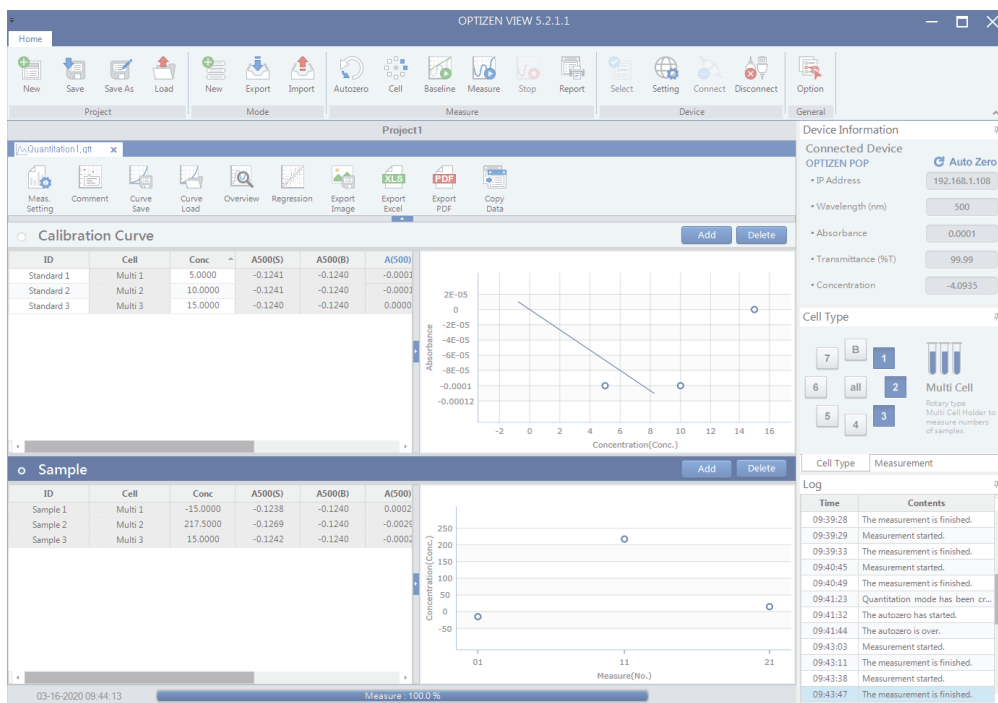
- ① Project name
- ② Mode type
- ③ Mode name
- ④ Number of measurement
- ⑤ Unit change window
- ⑥ Standard curve fitting order selection window
- ⑦ Zero crossing selection option
- ⑧ Wavelength input window and [Add] button
- ⑨ Selected wavelength deletion button

⑩ **Baseline absorbance display**

- Sample absorbance and Reference absorbance are individually displayed.
- When [Baseline absorbance display] is activated, [AutoZero], [Baseline] and [Measure] buttons are activated.

Both absorbances are calculated as:

- 1) Abs (Reference) = Abs (Baseline)-Abs (AutoZero)
- 2) Abs (sample) = Abs (Measure)-Abs (AutoZero)



3) Creating a mode

1. Connect the equipment and create a project. * Refer to “1-5 Connecting the equipment”
2. Click [Create] (a).
3. Select [Quantitation] mode (b) and click the [OK] button (c).
4. Select settings for the environment to be measured (3, 4, 5, 6, and 7).
5. Input and add the wavelength to measure (8).
6. When measurement settings are complete (d), click the [OK] button to finish settings.

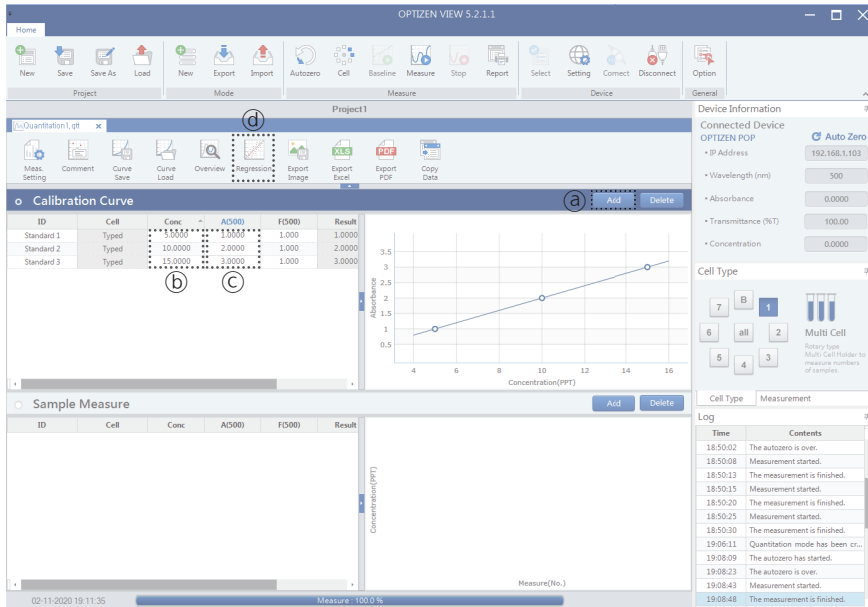
4-1) Creating a standard curve (creating a standard curve using standard samples)

The screenshot displays the OPTIZEN VIEW 5.2.1.1 software interface. The main window is divided into several sections:

- Home:** Contains various icons for file operations (New, Save, Save As, Load) and measurement functions (Substrate, Cell, Baseline, Measure, Stop, Report, Select, Setting, Connect, Disconnect, Option).
- Project:** Shows the current project name 'Project 1' and a 'Create' button (a).
- Mode:** Displays 'Quantitation' mode (b) and an 'OK' button (c).
- Calibration Curve:** A graph area with a table below it. The table has columns: ID, Cell, Conc, A(500), F(500), Result. A circled 'f' (f) is next to the 'Conc' column header. An 'Add' button is visible.
- Sample Measure:** A table with columns: ID, Cell, Conc, A(500), F(500), Result. It includes 'Add' and 'Delete' buttons.
- Device Information:** Shows 'Connected Device: OPTIZEN POP' with settings for IP Address (192.168.1.102), Wavelength (nm) (600), Absorbance (0.0001), Transmittance (%T) (99.98), and Concentration.
- Cell Type:** Shows 'Multi Cell' settings with a grid of buttons (7, B, 1, 6, all, 2, 5, 4, 3) and a circled 'j' (j) next to the grid.
- Log:** A window at the bottom right showing a timeline of events from 18:44:55 to 19:06:11, including messages like 'The setting has been changed.', 'Connected normally.', 'Photometric mode has been cr...', 'The autzers has started.', 'The autzers is over.', 'Measurement started.', 'The measurement is finished.', and 'Quantitation mode has been cr...'.

1. Add the standard sample column as much as needed, using the [Add] button.
2. Input the concentration value as much as the number of standard samples (f).
3. Click AutoZero (h) for accurate measurement.
4. Input the standard sample.
 - 4-1. In case of multiple cells, input the sample in such a way that the standard sample number (Standard #) matches the cell number (j).
 - 4-2. In case of a single cell, input the standard sample No. 1.
5. Click the [Measure] button (k) and select the “Standard” menu type, then click the [OK] button.
 - 5-1. In case of a single cell, input the standard samples in order and continue to measure.
6. The standard curve can be checked on the graph to the right, when measurement is finished.
7. Additional information on the standard curve can be checked using the Regression Analysis (g) button.

4-2) Creating a standard curve (creating a standard curve by manually entering data)



1. ① Add the standard sample columns as much as needed, using the [Add] button.
2. Input the concentration value as much as the number of standard samples (②).
3. Input the absorbance value as much as the number of standard samples (③).
3. The standard curve can be checked on the graph to the right, when input is finished.
4. Additional information on the standard curve can be checked using the Regression Analysis (④) button.

5) Measuring sample concentrations

Ch.2

The screenshot shows the OPTIZEN VIEW 5.2.1.1 software interface. The main window is titled 'Quantitation1.qtl'. The 'Sample' table is visible, with columns for ID, Cell, Conc., A(500), F(500), and Result. The 'Measure' button is highlighted with a circled 'C'. The 'Calibration Curve' table is also visible, with columns for ID, Cell, Conc., A(500), F(500), and Result. The 'Device Information' panel on the right shows 'Connected Device: OPTIZEN POP' and 'Auto Zero' settings. The 'Log' panel at the bottom right shows a list of events with timestamps and descriptions.

ID	Cell	Conc.	A(500)	F(500)	Result
Standard 1	Multi 1	5.0000	-0.0001	1.000	-0.0003
Standard 2	Multi 2	10.0000	-0.0001	1.000	-0.0003
Standard 3	Multi 3	15.0000	0.0000	1.000	0.0000

ID	Cell	Conc.	A(500)	F(500)	Result
Sample 1	Multi 1	30.0000	0.0002	1.000	30.0006
Sample 2	Multi 2	-202.5000	-0.0029	1.000	-202.5006
Sample 3	Multi 3	0.0000	-0.0002	1.000	0.0000

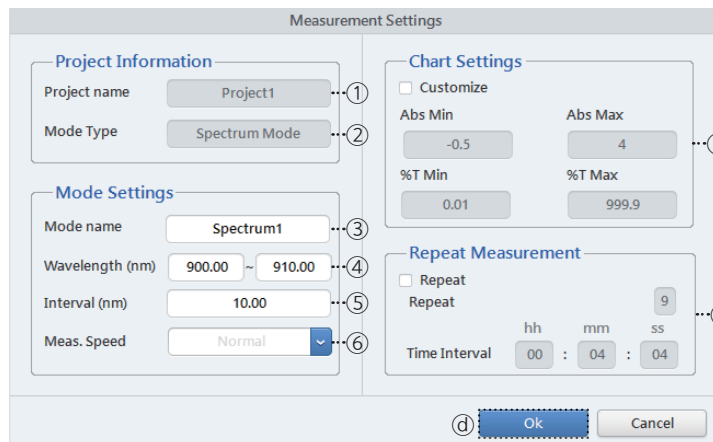
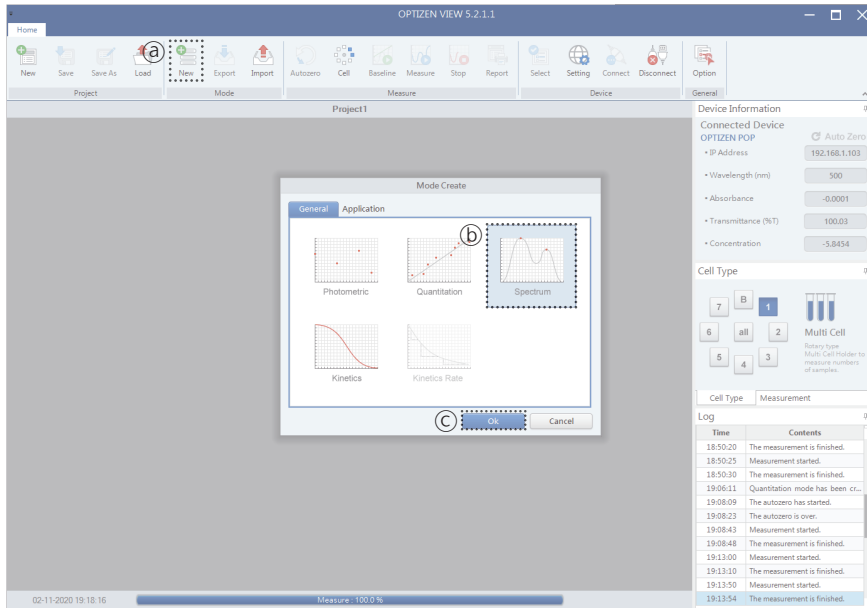
1. Select the sample (b).
2. As many as the number of samples to be measured (c) Click the [Insert] button and enter the ID value (d).
3. (a) Click the [Measure] button.
4. When the measurement is completed, the result is output to the sample table and chart (b).

2-3 Spectrum Mode

1) Overview

Spectrum mode provides the function of measuring absorbance and transmittance at the set wavelength range.

2) Screen composition

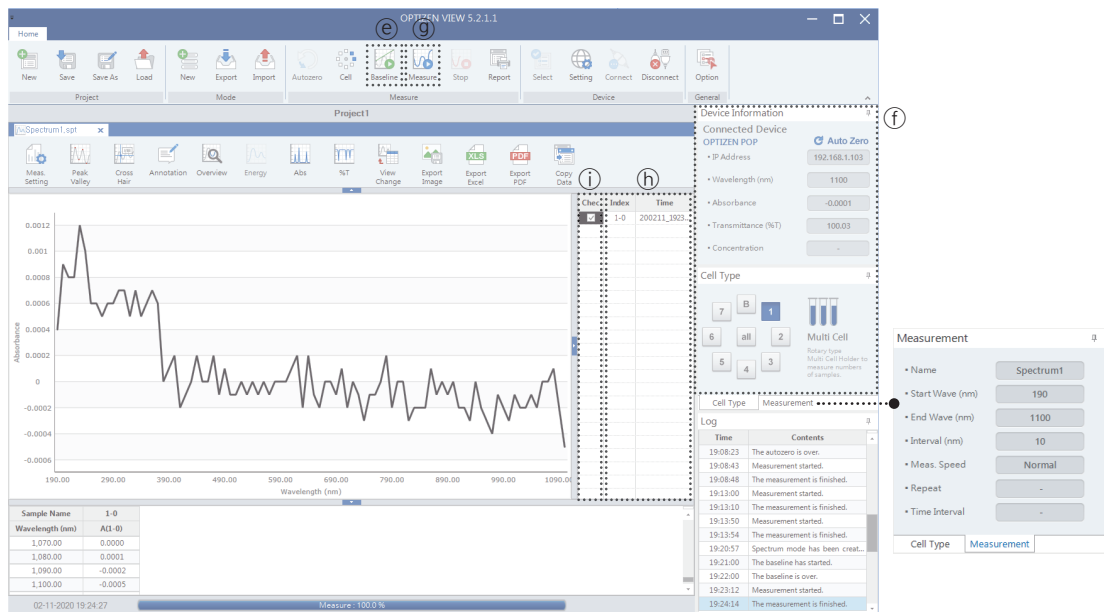


- ① Project name
- ② Mode type
- ③ Mode name
- ④ Wavelength to be measured (start to end)
- ⑤ Wavelength interval
- ⑥ Measurement speed
- ⑦ Y-axis intervals of the measurement result
- ⑧ Set repetitive measurement

3) Creating a mode

1. Connect the equipment and create a project. * Refer to “1-5 Connecting the equipment”
2. Click [Create] (a).
3. Select the [Spectrum] mode (b) and click the [OK] button (c).
4. Select settings (1 - 8) for the environment to be measured.
5. When measurement settings are complete (d), click the [OK] button to finish settings.

4) Taking measurement



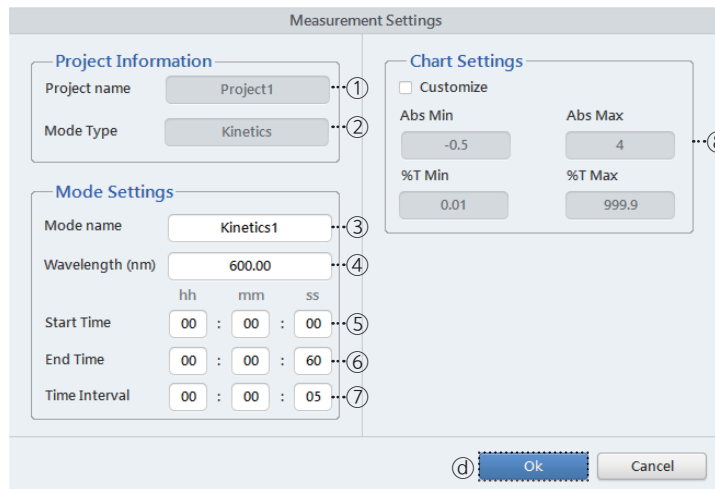
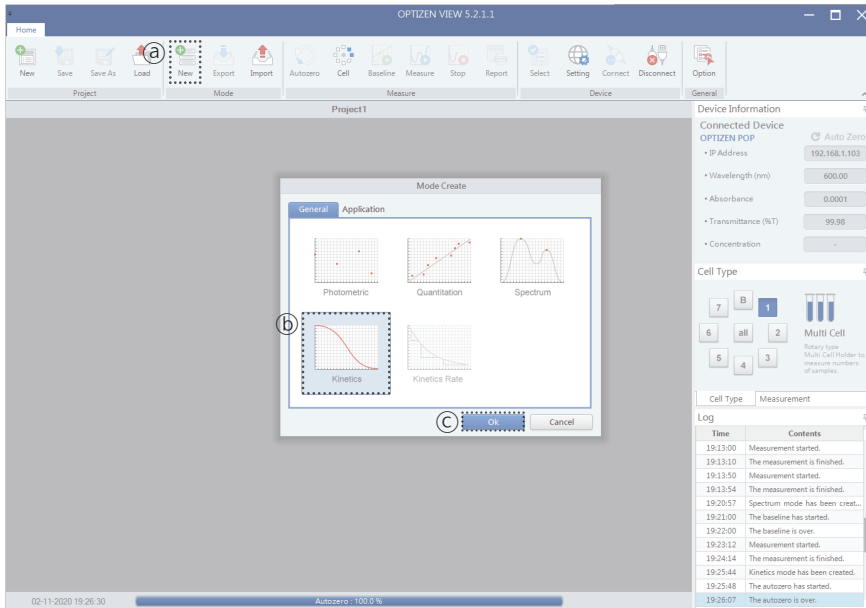
1. Conduct baseline correction within the measurement range using the [Baseline] (e) button for accurate measurement.
2. Input the sample.
3. Check the selected settings (f) and start the measurement using the [Measure] (g) button.
4. The measurement result will be displayed at the bottom graph and table when the measurement is completed.
5. If the graph is selected (h), the result can be compared easily as the selected graph will be highlighted with bold lines.
6. The measured graphs can be displayed selectively using the check box (i).

2-4 Kinetics Mode

1) Overview

Kinetics mode provides the function of measuring absorbance by time and transmittance at the set wavelength.

2) Screen composition

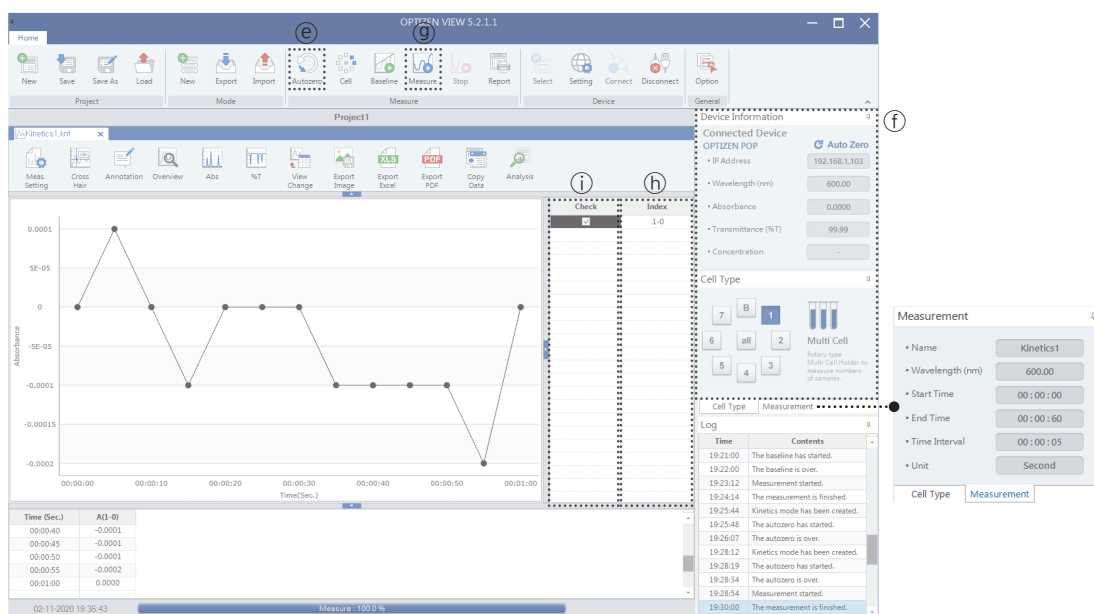


- ① Project name
- ② Mode type
- ③ Mode name
- ④ Wavelength to be measured
- ⑤ Measurement start time
- ⑥ Measurement end time
- ⑦ Measurement time interval
- ⑧ Y-axis interval of the measurement result

3) Creating a mode

1. Connect the equipment and create a project. * Refer to “1-5 Connecting the equipment”
2. Click [Create] (a).
3. Select [Kinetics] mode (b) and click the [OK] button (c).
4. Select settings (1 - 8) for the environment to be measured.
5. When measurement settings are complete (b), click the [OK] button to finish settings.

4) Taking measurement

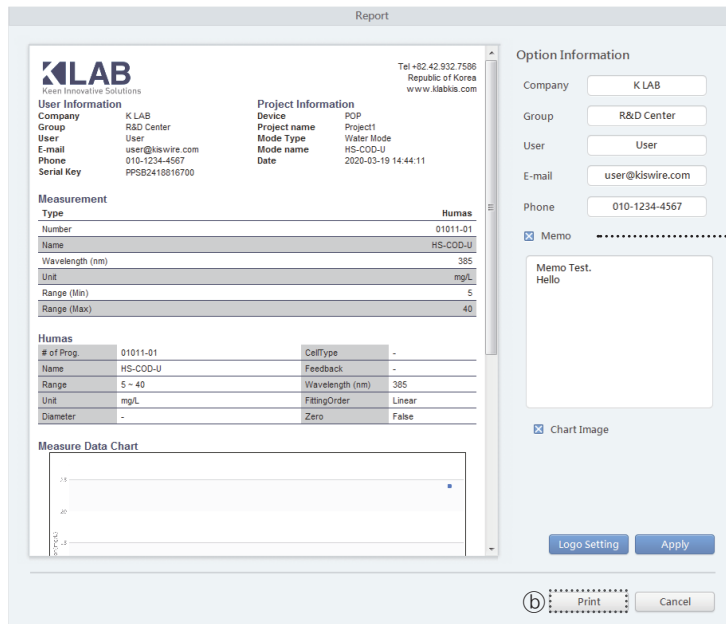
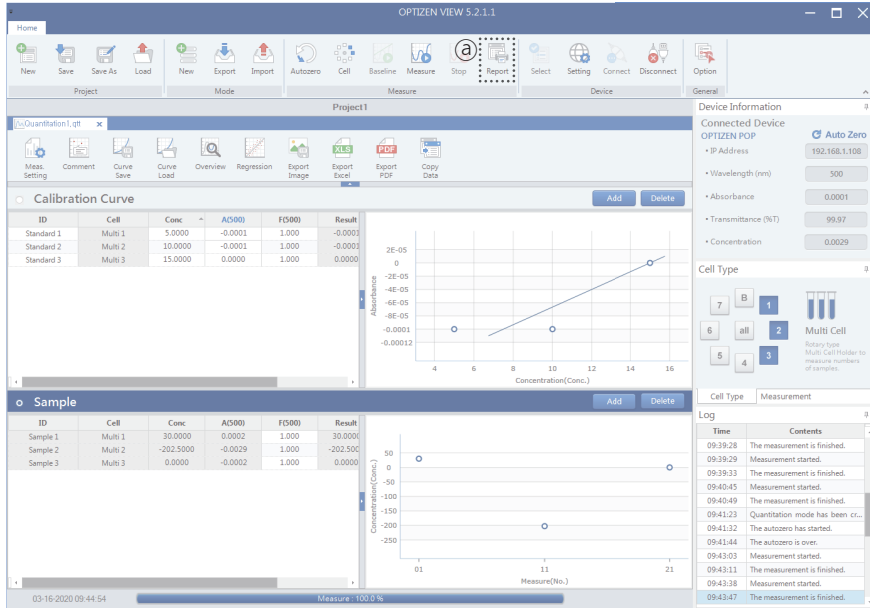


1. Input the sample.
2. Perform Auto Zero using the AutoZero button (e) for accurate measurement.
3. Check the selected settings (f) and start the measurement using the [Measure] (g) button.
4. The result being measured can be checked at the bottom graph and table.
5. If the graph is selected (h), the result can be compared easily as the selected graph will be highlighted with bold lines.
6. The measured graphs can be displayed selectively using the check box (i).

2-5 Printing a report (Common)

The measured data can be printed on a report in graph and table format.

1) Screen composition



- ① Company name
- ② Group name
- ③ User name
- ④ User e-mail/Company e-mail
- ⑤ User or company phone
- ⑥ Memo usage status
- ⑦ Input a memo related to the measurement
- ⑧ Apply the information

2) Printing a report

1. Move to the report option page by clicking the [Report] button (㉓) after completing the measurement.
2. Select settings (㉑ - ㉔) necessary for printing.
3. Print the report by clicking the [Print] button (㉕) when settings are completed.

Click the [Print] button (㉕) to preview the report.

The screenshot displays a software window titled '인쇄 미리 보기' (Print Preview) showing a report preview. The report content is as follows:

1의 2페이지

Tel +82.42.932.7586
Republic of Korea
www.klabkis.com

User Information		Project Information	
Company	K LAB	Device	POP
Group	R&D Center	Project name	Project1
User	User	Mode Type	Water Mode
E-mail	user@kiswire.com	Mode name	HS-COD-U
Phone	010-1234-4567	Date	2020-03-19 14:45:31
Serial Key	PPSB2418816700		

Measurement		
Type		Humas
Number		01011-01
Name		HS-COD-U
Wavelength (nm)		385
Unit		mg/L
Range (Min)		5
Range (Max)		40

Humas			
# of Prog.	01011-01	CellType	-
Name	HS-COD-U	Feedback	-
Range	5 ~ 40	Wavelength (nm)	385
Unit	mg/L	FittingOrder	Linear
Diameter	-	Zero	False

Measure Data Chart

페이지(△) 1 / 2 ⏪ ⏩ ⏴ ⏵

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• **Record of Revision**

Data	Revision	Changed Page	Description

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View

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