

SEKONIC

Software Guide for

“C-700,C-7000 Series Utility”

Bundled as Standard with

C-700,C-7000 Series SPECTROMASTER

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Thank you for purchasing our product. Please read this Software Guide, the Product Operating Manual and the warranty carefully for proper and safe use.

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JT109761-G_en-00

Introduction

This is a software guide for our “C-700/C-7000 Series Utility.”

Please note that screens and menus that are actually displayed may differ from those shown in this document. In that case, the actual display takes precedence. This document mainly uses the Windows version screens for explanations.

This document is written with the assumption that users have a basic knowledge of using personal computers (hereafter referred to as “computers”) and Windows/Macintosh operating system.

For use of computers and Windows/Macintosh operating system, please refer to the instructions supplied with the computer.

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2. Cautions for proper and safe use

Please be sure to read this “Cautions for proper and safe use” carefully before using this product, and use the product properly.

[C-700] }
[C-700R] } Provides explanations on contents that vary by the connected model.
[C-7000] }

➡ Page * Indicates a reference Page.

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4. Major functions

This software is equipped with the following functions to support the “C-700/C-7000 Series SPECTROMASTER” (hereafter referred to as “SPECTROMASTER”):

1. Displaying SPECTROMASTER measurement results in figures and graphs and saving them in files
2. Editing SPECTROMASTER settings
3. Updating the SPECTROMASTER firmware (hereafter referred to as “FW”), Operating Manual and this software

Models compatible with this software are as follows:

- C-700/C-700R
- C-7000

5. Supported OS and installation procedures

5.1 Supported OS

Table 1 Supported OS

| Software | Supported OS | Remarks |
|-----------------------------|--|---|
| Windows | Windows7 SP1 Windows8 Windows8.1 Windows10 | Supports both 32-bit and 64-bit versions for each OS. |
| Macintosh [C-700/C-700R] | OS X v10.8 OS X v10.9 OS X v10.10 OS X v10.11 | Supports both 64-bit versions for each OS. |

5.2 How to install this software (on Windows)

Turn on your computer and start Windows. Insert the CD-ROM supplied with this product into the CD-ROM drive. Then, double-click AutoRun.exe in the CD-ROM.



Figure 1 Auto Run

Select the model name and a language to use. Then, click the item to install ("USB Driver," "Operating Manual" or "Utility").

After the installer of the selected target is started, click the "Next" button according to the installer instructions and proceed through the installation process.

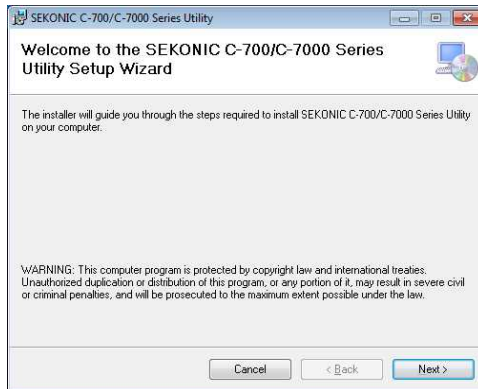


Figure 2 Installer

5.3 How to uninstall this software (from Windows)

Open the Control Panel. Click “Uninstall a program” in the program menu.

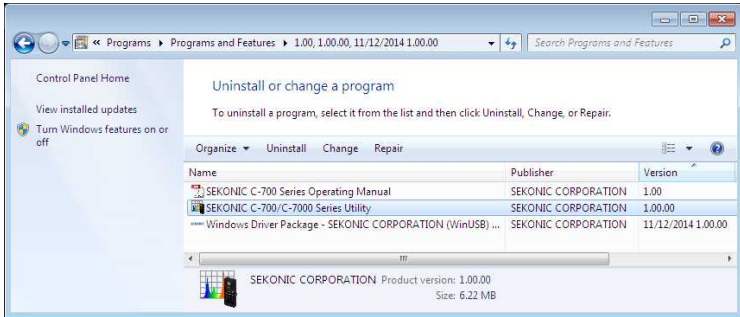


Figure 3 Uninstall a program

Select the item to uninstall and click “Uninstall.”

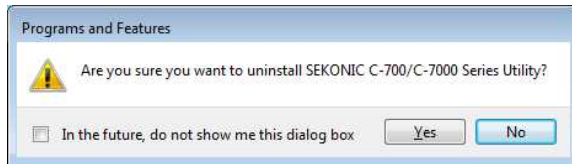


Figure 4 Programs and Features

Click “Yes” on the confirmation screen to start and complete the uninstallation.

5.4 How to install this software (on Macintosh) [C-700/C-700R]

Turn on your Macintosh computer and start OS X. Insert the CD-ROM supplied with this product into the CD-ROM drive. Then, open the folder in the CD-ROM.



Figure 5 Installer folder on Macintosh

Double-click the “SetupC700Utility.pkg” icon in the folder.

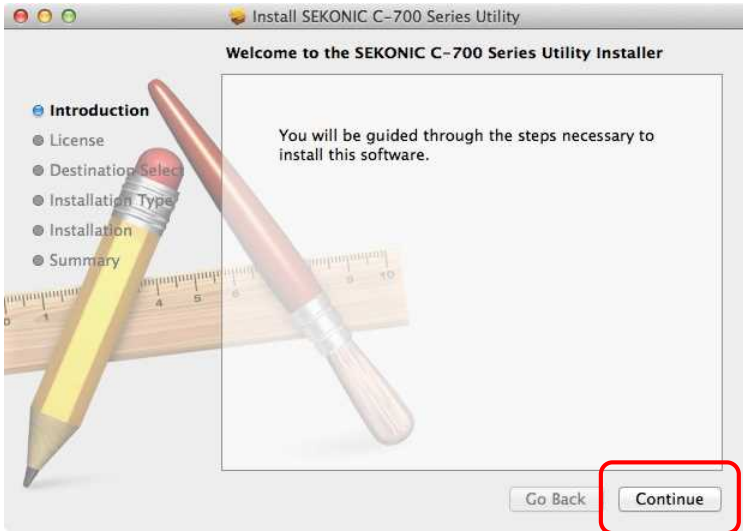


Figure 6 Installer screen on Macintosh

After the installer is started, click the “Continue” button according to the installer instructions and proceed through the installation process.

5.5 How to uninstall this software (from Macintosh) [C-700/C-700R]



Figure 7 Application folder

Open the “SEKONIC” folder in the “Application” folder. In the “SEKONIC” folder, open “C700Series,” then open “Uninstaller” and double-click “UninstallC700Utility.”



Figure 8 UninstallC700Utility icon

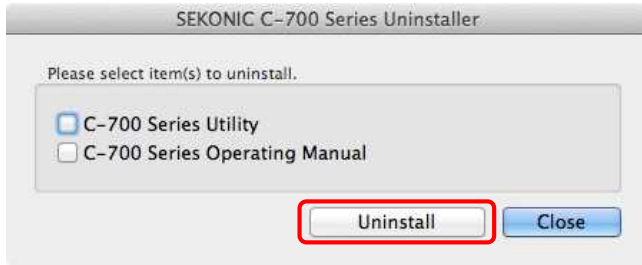


Figure 9 Uninstaller screen

Click the checkbox(es) located to the left of item(s) you want to uninstall and click the "Uninstall" button.

If all items have been uninstalled and "UninstallC700Utility" has become unnecessary, open the "SEKONIC" folder in the "Application" folder, select the "C700Series" folder and drag and drop it into "Trash."

6. Connecting to SPECTROMASTER

6.1 How to connect to SPECTROMASTER



Please prepare a USB cable before using this software.
USB cables are not supplied with this product.
Please use a USB A male to mini-B male cable.

1. Connect the USB cable to the computer.
2. Check that the power to SPECTROMASTER is turned off.
3. Connect the USB cable to SPECTROMASTER.
4. Turn on the power to SPECTROMASTER.
5. Start this software.

When connection to SPECTROMASTER is completed, a screen as shown in Figure 10 appears.

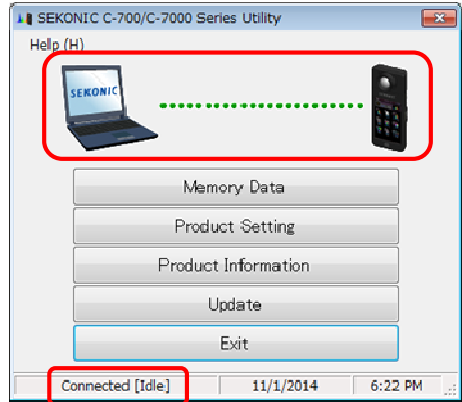


Figure 10 Connection status (idling)

 **NOTICE**

- If the process shown in Section 0 is not followed, communication errors may occur.
- When this software is in operation, do not remove the USB cable with the SPECTROMASTER power turned on. Otherwise, the software may not work correctly even when the USB cable is reconnected.

If the USB cable is not connected correctly or if the SPECTROMASTER power is not turned on, a screen as shown in Figure 11 appears.

In that case, check SPECTROMASTER and the connection of the USB cable.



Figure 11 Unconnected status

If SPECTROMASTER is in connection but in operation and error, screens as shown in Figure 12 to Figure 13 may appear. In that case, please refer to the SPECTROMASTER Operating Manual for actions to take.



Figure 12 Connection status (busy)

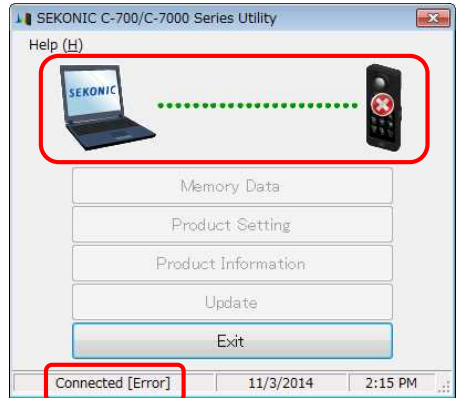


Figure 13 Connection status (error)

NOTICE

If any of the screens shown in Figure 11 to 14 appears, or if a communication error has occurred, exit this software at once, reconnect the USB cable and restart this software according to the procedures shown in Section 0. (➡ Page 16)

6.2 How to disconnect from SPECTROMASTER

1. Exit this software.
2. Turn off the power to SPECTROMASTER.
3. Disconnect the USB cable connected to SPECTROMASTER.
4. Disconnect the USB cable connected to the computer.

NOTICE

Close the USB connection terminal cover on SPECTROMASTER properly after use.

7. Operation on each screen

7.1 Main screen

A main menu as shown in Figure 14 appears after starting this software according to the procedures shown in Section 0.

1. “Memory Data” button

Displays the “7.4 Memory Data Management screen” (➡ Page 35).

2. “Product Setting” button

Displays the “7.3 Product Setting screen” (➡ Page 24).

3. “Product Information” button

Displays the “7.2 Product Information screen” (➡ Page 23).

4. “Update” button

Displays the “7.6 Update screen” (➡ Page 45).

5. “Exit” button

Exits this software.

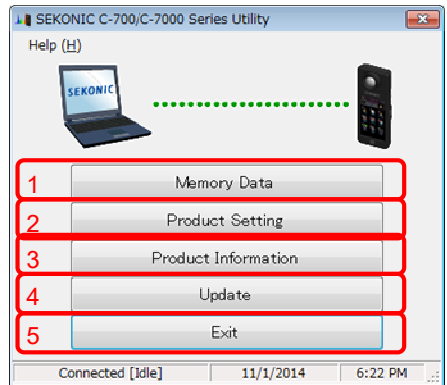


Figure 14 Main screen

7.1.1 Menus

“Software Guide” and “About This Utility” are provided as menus.

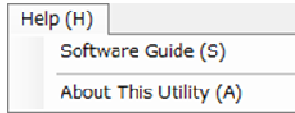


Figure 15 Menu (on Windows)

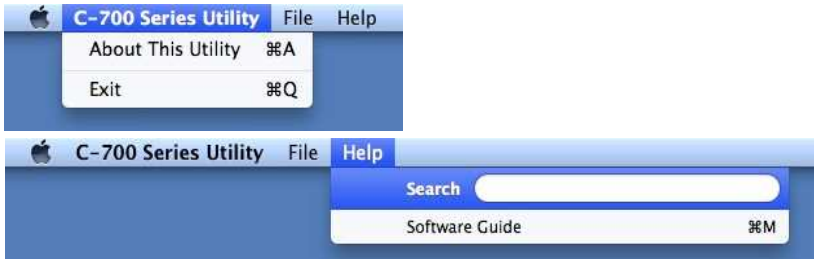


Figure 16 Menu (on Macintosh)

1. “Software Guide”

This displays the Software Guide (this document) for this software.

2. “About This Utility”

This displays the “7.1.2 About This Utility screen (➡ Page 22).

7.1.2 About This Utility screen

This screen displays the version information of this software.

The following figure shows the initial version information. It may differ from the latest version information.

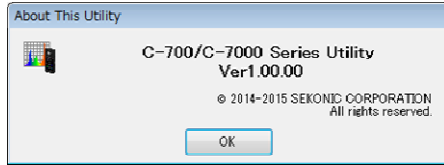


Figure 17 About This Utility screen (on Windows)



Figure 18 About This Utility screen (on Macintosh)

7.2 Product Information screen

This screen displays information on the SPECTROMASTER unit. The contents displayed change according to the SPECTROMASTER information and usage conditions.

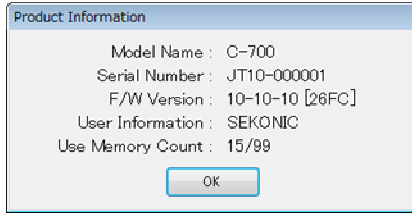


Figure 19 Product Information screen [C-700]

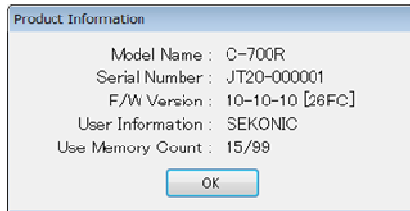


Figure 20 Product Information screen [C-700R]

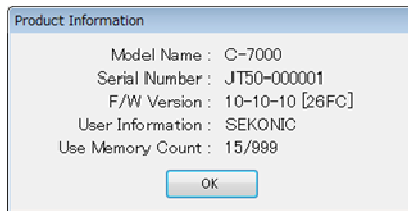


Figure 21 Product Information screen [C-7000]

7.3 Product Setting screen

This screen displays setting items for measurements to be performed by SPECTROMASTER.

Clicking the “OK” button after changing any of the setting items sends all of the setting changes in a batch to SPECTROMASTER and brings you back to the main screen. Clicking the “Cancel” button does nothing but bring you back to the main screen. (Figure 22)

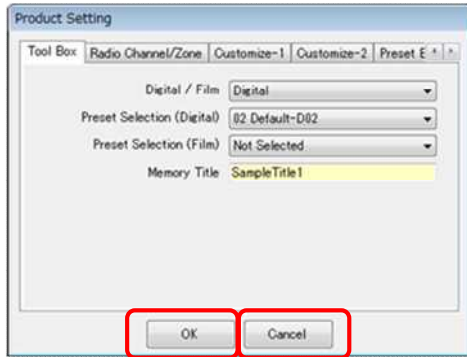


Figure 22 Product Setting screen

The setting items to be displayed vary with the connected model. For contents of the setting items, please refer to the SPECTROMASTER Operating Manual.

Table 2 List of tab names displayed on Product Setting screen

| Model | Tab name | Page |
|--------------|-----------------------------|-----------|
| C-700/C-700R | Tool Box | ➡ Page 25 |
| | Radio Channel Zone [C-700R] | ➡ Page 25 |
| | Customize-1 | ➡ Page 26 |
| | Customize-2 | ➡ Page 26 |
| | Preset Editing (Digital) | ➡ Page 27 |
| | Preset Editing (Film) | ➡ Page 27 |
| | Hardware Setting | ➡ Page 28 |
| | Initialize | ➡ Page 33 |
| C-7000 | Tool Box | ➡ Page 29 |
| | Customize | ➡ Page 29 |
| | Preset Editing (2 °) | ➡ Page 30 |
| | Preset Editing (10 °) | ➡ Page 30 |
| | Hardware Setting | ➡ Page 32 |
| | Initialize | ➡ Page 33 |

7.3.1 Product Setting screen [C-700/C-700R]

1. Tool Box

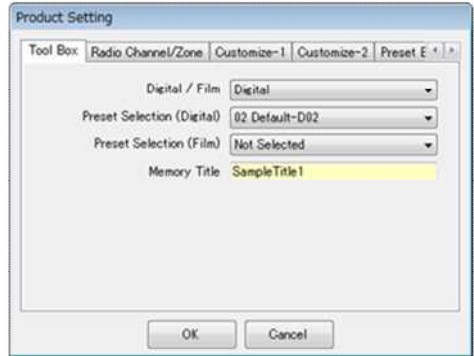


Figure 23 Product Setting / Tool Box

2. Radio Channel/Zone [C-700R]

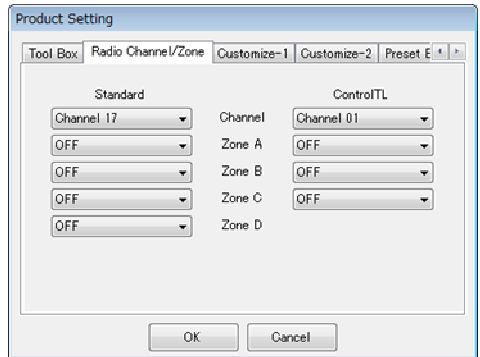


Figure 24 Product Setting / Radio Channel

3. Customize-1

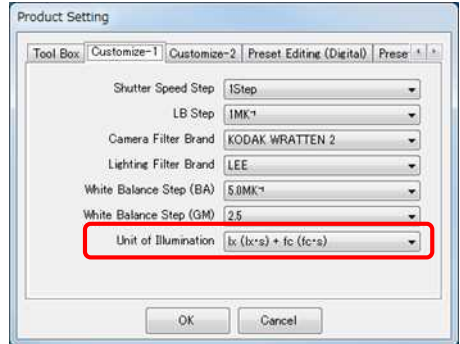


Figure 25 Product Setting / Customize-1



The setting item “Unit of Illumination” is not displayed for SPECTROMASTER models {JT10, JT1*} that do not use “fc (fc·s)” due to legal regulations in the relevant country. In addition, the inside of () is a unit showing a light exposure.

4. Customize-2

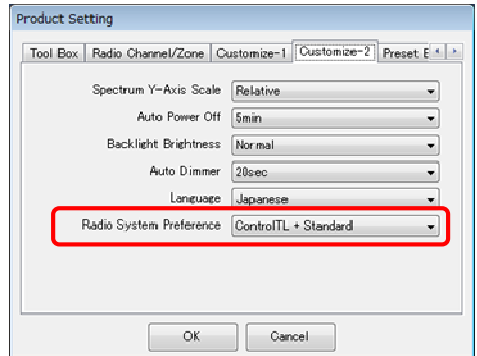


Figure 26 Product Setting / Customize-2



[C-700R]

The setting item “Radio System Preference” is provided only for C-700R.

5. Preset Editing (Digital / Film)

This tab displays the settings selected for the setting item “Preset No.”

To edit the settings, click the “Edit...” button and open the “Preset Editing” dialog.

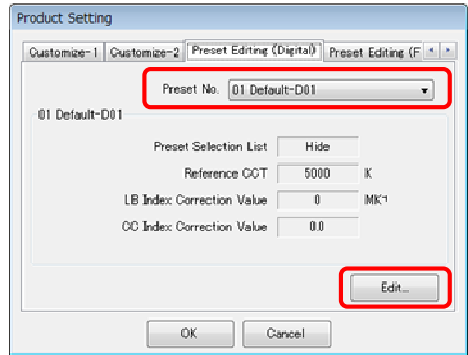


Figure 27 Product Setting / Preset Editing
(Digital)

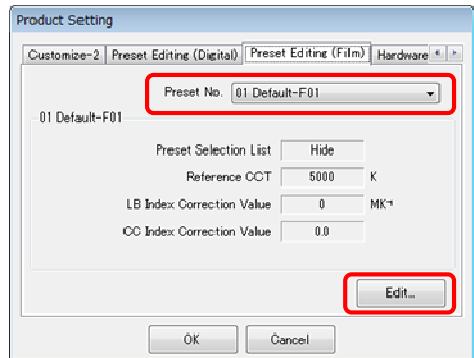


Figure 28 Product Setting / Preset Editing
(Film)

6. Preset Editing dialog

The setting item “Preset Selection List” is usually displayed such that it allows changes, as shown with (a).

However, an item (“Default-D02” in this case) selected in the setting item “Preset Selection” in “Figure 23 Product Setting / Tool Box” (➡ Page 25) is displayed such that it does not allow any changes, as shown with (b).

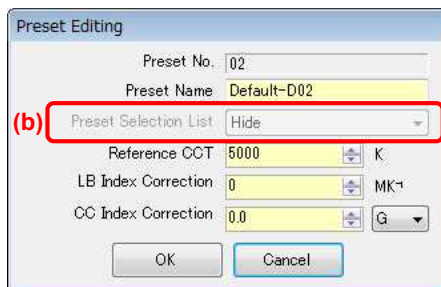
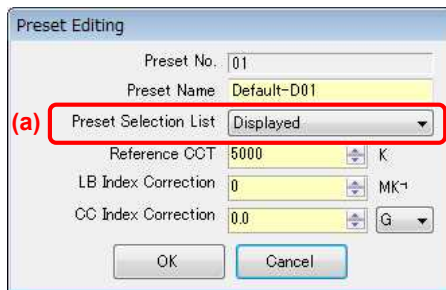


Figure 29 Product Setting / Preset Editing Dialog

7. Hardware Setting

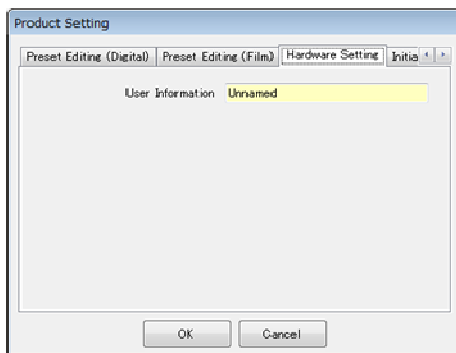


Figure 30 Product Setting / Hardware Setting

7.3.2 Product Setting screen [C-7000]

1. Tool Box

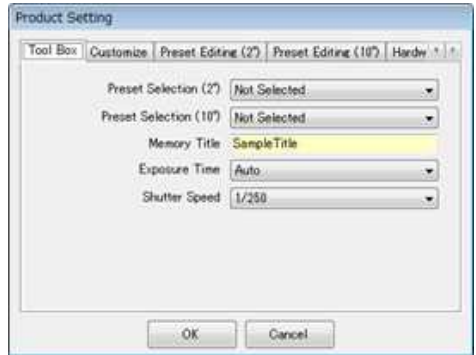


Figure 31 Product Setting / Tool Box

2. Customize

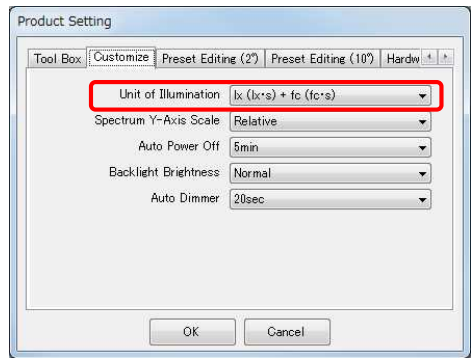


Figure 32 Product Setting / Customize



The setting item “Unit of Illumination” is not displayed for SPECTROMASTER models {JT50} that do not use “fc (fc·s)” due to legal regulations in the relevant country. In addition, the inside of () is a unit showing a light exposure.

3. Preset Editing (2 °/10 °)

This tab displays the settings selected for the setting item “Preset No.”

To edit the displayed settings, click the “Edit...” button and open the “Preset Editing” dialog.

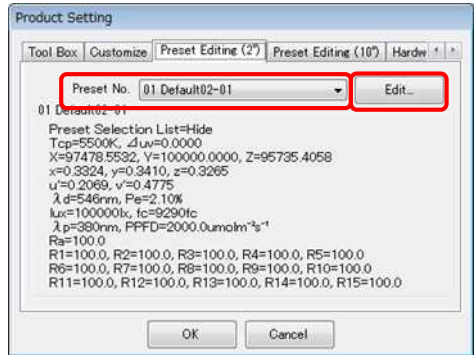


Figure 33 Product Setting / Preset Editing(2 °)

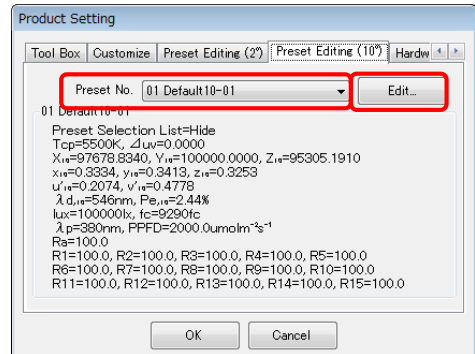


Figure 34 Product Setting / Preset Editing(10 °)



Though the setting item “Preset Selection List” shown basically allows changes, no change is allowed when a selection is preset for “Preset Selection” in “Tool Box.” For details, please refer to “6. Preset Editing dialog” (➡ Page 28).

4. Preset Editing dialog

To specify preset values, click the “Memory...” button and select memory data in “5. Preset Editing / Memory Select dialog

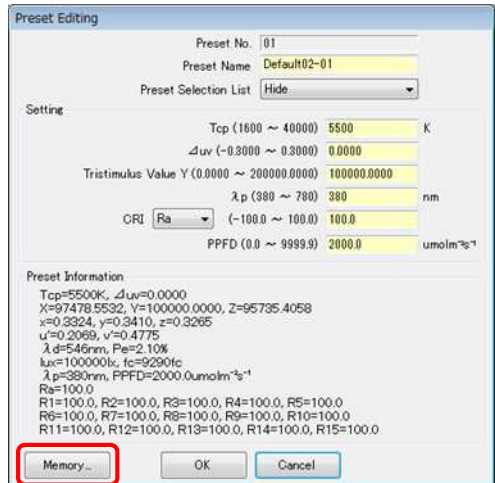


Figure 35 Preset Editing dialog

5. Preset Editing / Memory Select dialog

To select memory data, select a relevant memory title from "Memory Title" located at the top left of the screen. Then, select memory data from "Memory Data" located at the top right of the screen and click the “OK” button.

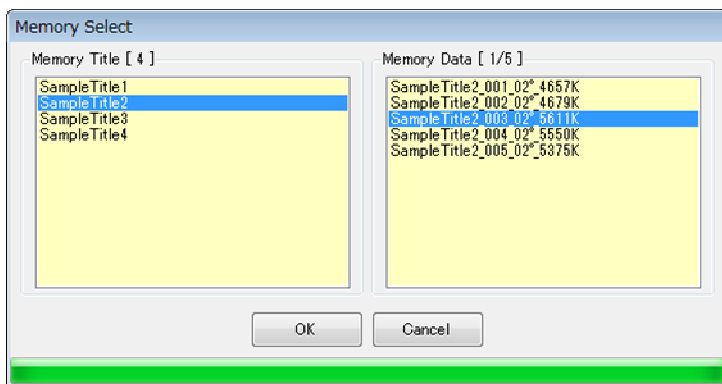


Figure 36 Preset Editing / Memory Select dialog

6. Hardware setting

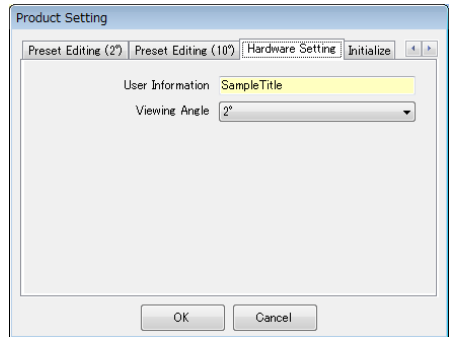


Figure 37 Product Setting / Hardware Setting

7.3.3 Product Setting screen - Initialize

Each of the setting items can be initialized by clicking the “Customize Editing” button shown with (a) or the “Factory Setting” button shown with (b) on this screen.

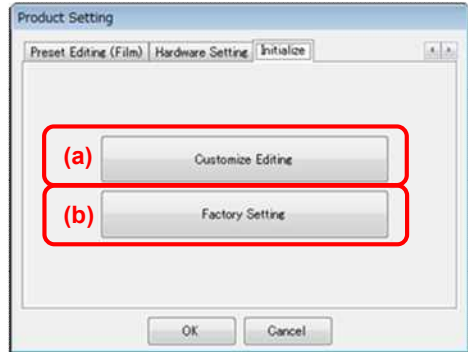


Figure 38 Product Setting / Initialize

The contents of initialization varies with the buttons and connected model.

1. Contents of initialization executed by “Customize Editing”

Customization settings items related to them are initialized.

The “Confirmation” screen appears after clicking the “Customize Editing” button. Upon clicking the “Yes” button, the contents displayed on the Product Setting screen and values of each setting item for SPECTROMASTER are initialized.

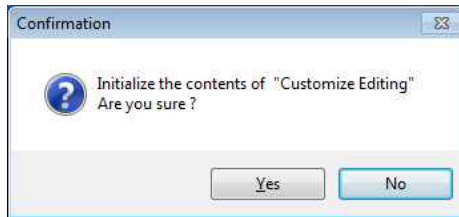


Figure 39 Confirmation screen the “Customize Editing”

Table 3 Contents of initialization

| Model | Item | Initialization target screen and setting Item |
|--------------|-----------------|---|
| C-700/C-700R | Product Setting | Tool Box (Preset Selection (Digital/Film)) |
| | | Customize-1 |
| | | Customize-2 |
| C-7000 | Product Setting | Tool Box (Preset Selection (2 °/10 °)) |
| | | Customize |

2. Contents of initialization executed by “Factory Setting”

All setting items of SPECTROMASTER are initialized to the factory default settings. The memory data are also initialized.

The “Confirmation” screen appears after clicking the “Factory Setting” button. Upon clicking the “Yes” button, the contents displayed on the Product Setting screen and values of each setting item for SPECTROMASTER are initialized.

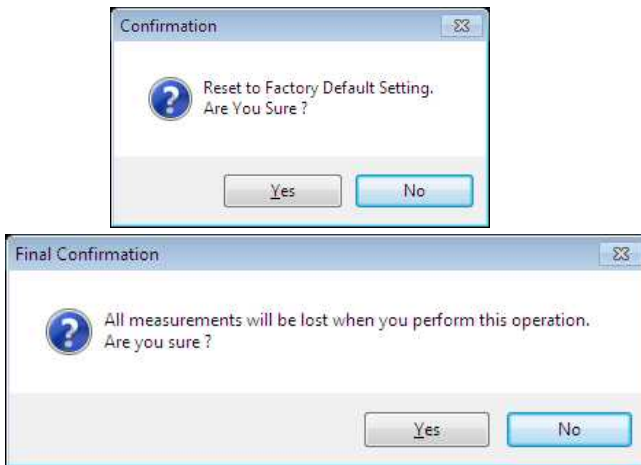


Figure 40 Confirmation screen the “Factory Setting”

NOTICE

Once clicking the “Yes” button on each Confirmation screen to initialize, it is impossible to return to the previous setting even if clicking the “Cancel” button on the Setting screen.

7.4 Memory Data Management screen

The Memory Data Management screen is used to save measurement data held by SPECTROMASTER as files and to display (preview) and delete the measurement data. Besides saving data as CSV files, various graphs can be saved as image files. Graphs to be displayed and graphs that can be saved as files vary with the connected model.

Table 4 Corresponding graphs by model

| Connected model | Graphs that can be saved as image files |
|-----------------|--|
| C-700/C-700R | Spectral Distribution, CRI, White Balance |
| C-7000 | Spectral Distribution, CRI, CIE1931 Chromaticity Diagram, CIE1976 Chromaticity Diagram |

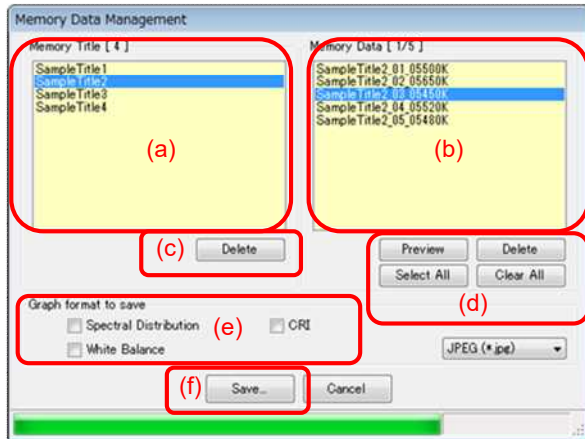


Figure 41 Memory Data Management [C-700/C-700R]

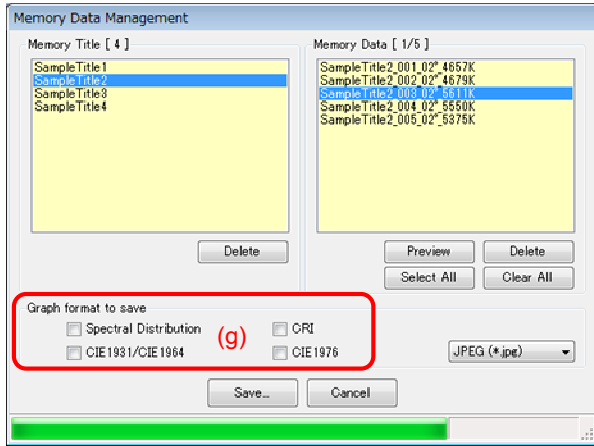


Figure 42 Memory Data Management [C-7000]

To manage (save, display or delete) memory data in SPECTROMASTER, select a relevant memory title from "Memory Title" shown with (a) so that all memory data that belong under the selected memory title are displayed in "Memory Data" shown with (b).

1. "Delete" a memory title

By selecting an item in "Memory Title" and clicking the "Delete" button shown with (c), the selected memory title and all memory data related to the selected title are deleted.

2. "Preview" memory data

By selecting an item in "Memory Data" and clicking the "Preview" button shown with (d), contents of the selected memory data are displayed on the "7.5 Preview screen" (▶ Page 39). When multiple items in the list are selected, the "Preview" button cannot be clicked.

3. "Delete" memory data

By selecting an item in "Memory Data" and clicking the "Delete" button shown with (d), the selected memory data are deleted. When multiple items in the list are selected, the "Delete" button cannot be clicked.

4. "Select All" memory data

By clicking the "Select All" button shown with (d), all items in "Memory Data" are selected.

5. "Clear All" memory data

By clicking the "Clear All" button shown with (d), the selection of all items in "Memory Data" is cleared.

6. "Save" memory data

By selecting item(s) (multiple selections allowed) in "Memory Data" and clicking the "Save" button shown with (f), the selected memory data are saved in a file. If a file of the same name already exists, the existing file is overwritten.

The memory data are saved in the CSV format. If item(s) shown with (e) in Figure 41 or item(s) shown with (g) in Figure 42 have check mark(s), relevant graph image(s) are saved. The names of files to be saved are shown in “Table 5 File names of memory data to be saved .”

(For CSV-format data fields, please refer to “8. Appendix” (➡ Page 52).)

Table 5 File names of memory data to be saved

| Item to be saved | Saving format | File name used for saving (*2) |
|---------------------------------------|--|---|
| Memory Data | Text format (CSV format) (*1) | MemoryDataName . csv |
| Spectral Distribution graph | Image file (Select from Jpeg, Bmp or Png format) | MemoryDataName_SpectralDistribution . *** |
| CRI graph | | MemoryDataName_ColorRendering . *** |
| White Balance [C-700/C-700R] | | MemoryDataName_WhiteBalance . *** |
| CIE1931 Chromaticity Diagram [C-7000] | | MemoryDataName_CIE1931 . *** |
| CIE1976 Chromaticity Diagram [C-7000] | | MemoryDataName_CIE1976 . *** |

*1 Character code of a CSV format is “with UFT-8 BOM.”

*2 The “MemoryDataName” refers to the names displayed at (b) in Figure 41 (➡ Page 35).

The image file extension (***) refers to the extension (jpg, bmp, png) of each image format.

7.5 Preview screen

This screen, which is called from the “7.4 Memory Data Management screen” (➡ Page 35), displays memory data.

There are multiple preview formats, and they can be switched using tabs. Graphs that are displayed can be saved individually in files and can also be copied to a clipboard.

7.5.1 Menus

The following menus are provided for each Preview format and are used to save graphs individually:

1. Save as
Saves graph images in files.
2. Copy to clipboard
Copies graph images to a clipboard.

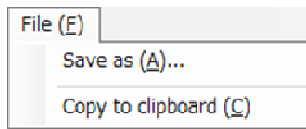


Figure 43 Preview screen / Menu (on Windows)



Figure 44 Preview screen / Menu (on Macintosh)

7.5.2 Preview / Spectral Distribution

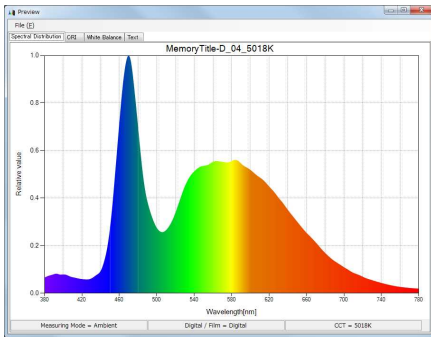


Figure 45 Spectral Distribution

[C-700/C-700R]

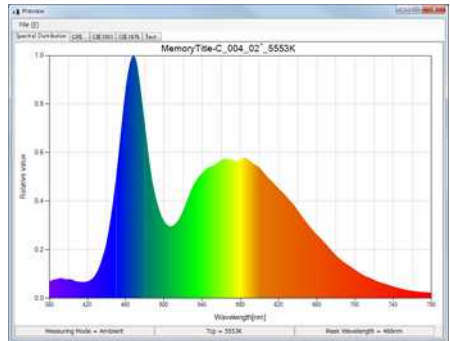


Figure 46 Spectral Distribution

[C-7000]

The Preview / Spectral Distribution screens are common to all models (excludes tab display and status bar).

7.5.3 Preview / CRI

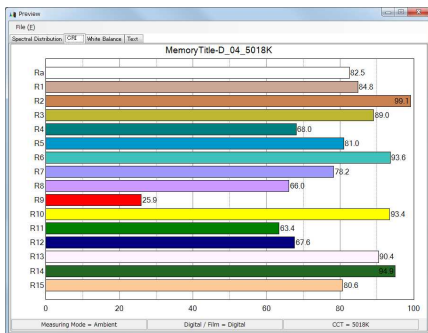


Figure 47 CRI [C-700/C-700R]

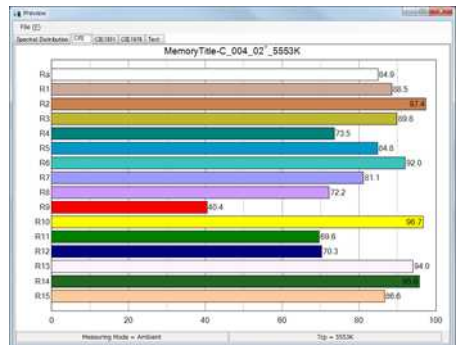


Figure 48 CRI [C-7000]

The Preview / CRI screens are common to all models (excludes tab display).

7.5.4 Preview / White balance [C-700/C-700R]

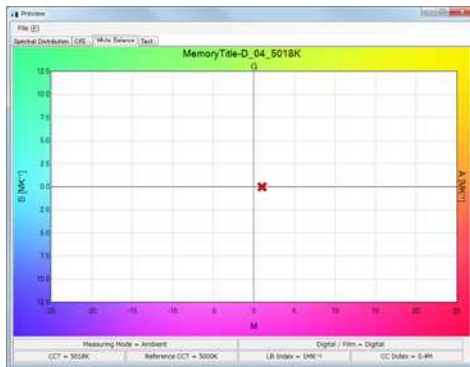


Figure 49 White Balance [C-700/C-700R]

7.5.5 Preview / CIE 1931 Chromaticity Diagram [C-7000]

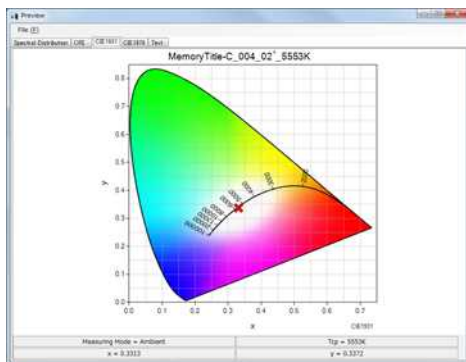


Figure 50 CIE1931Chromaticity Diagram [C-7000]

7.5.6 Preview / CIE1976 Chromaticity Diagram [C-7000]

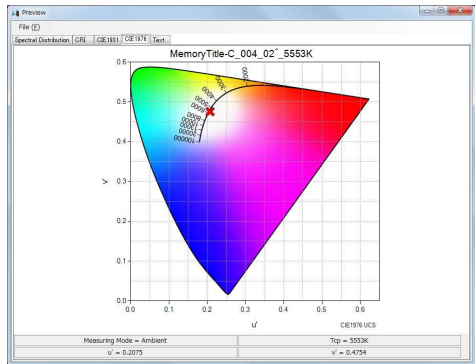


Figure 51 CIE1976 Chromaticity Diagram [C-7000]

7.5.7 Preview / Text

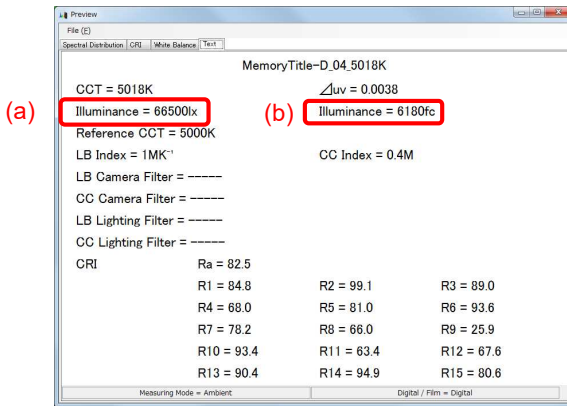


Figure 52 Text [C-700/C-700R]

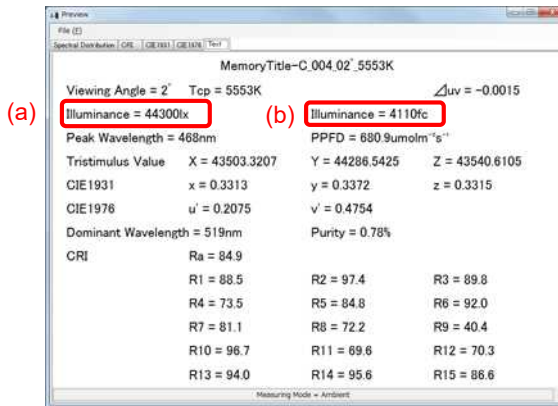


Figure 53 Text [C-7000]

(a) and (b) change the contents of a display by a setup on the main part side “Unit of Illumination”, and “Measuring Mode”

The corresponding item in a 《memory data file》 (CSV-format) changes similarly.

Table 6 The contents of a display of illumination (light exposure)

| | | Unit of Illumination setup | | | | | |
|---------------------|----------------|----------------------------|---------|------------------|---------|-----------------------|------------------|
| | | lx (lx·s) | | fc (fc·s) | | lx (lx·s) + fc (fc·s) | |
| Preview / Text | | (a) | (b) | (a) | (b) | (a) | (b) |
| CSV-format field No | | 8 | 9 | 8 | 9 | 8 | 9 |
| Measuring Mode | Ambient | Illuminance [lx] | (Blank) | Illuminance [fc] | (Blank) | Illuminance [lx] | Illuminance [fc] |
| | Except Ambient | Exposure [lx·s] | (Blank) | Exposure [fc·s] | (Blank) | Exposure [lx·s] | Exposure [fc·s] |



The item "Illuminance [fc]" and "Exposure [fc · s]", in the case of the model {JT10,JT1*,JT50} the body does not use "fc (fc·s)" by the regulations of each country, it does not display.

7.6 Update screen

On the Update screen, you can compare the version information of each of the following items with the update information listed on our website, and update any of the items you are using to the latest versions:

- C-700 Series F/W
- C-7000 Series F/W
- C-700 Series Operating Manual
- C-7000 Series Operating Manual
- C-700/C-7000 Series Utility (this software)



To acquire update information, a computer using this software needs to be connected to the Internet and capable of viewing our website (www.sekonic.co.jp).

If you need to set an HTTP proxy server to use a web browser, click the “Proxy Setting” button to open the “7.6.1 Proxy Setting” screen (➡ Page 50) and perform the same setting.

1. Update-1

Versions of installed items are displayed. Items that are not installed are displayed in grayed-out characters, as shown in the red frames in Figure 55.

By clicking the “Next >” button on the “Update-1” screen, the acquisition of the update information is started.

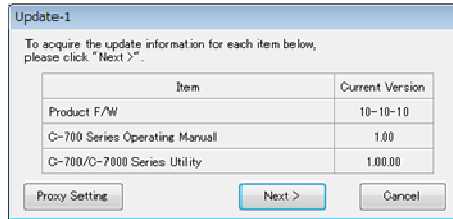


Figure 54 Update-1 [C-700/C-700R]

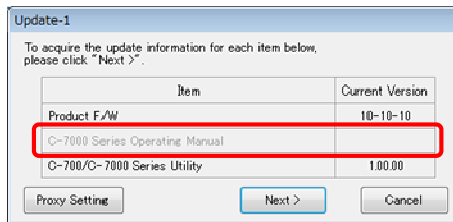


Figure 55 Update-1 [C-7000]

2. Update-2

After the acquisition of the update information is completed, click the “Next >” button.

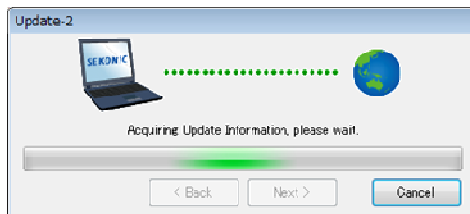


Figure 56 Update-2

3. Update-3

Items that can be updated are displayed. By clicking the “Update >” button, items that are checked are updated.

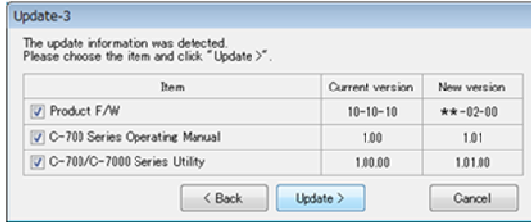


Figure 57 Update-3 [C-700/C-700R]

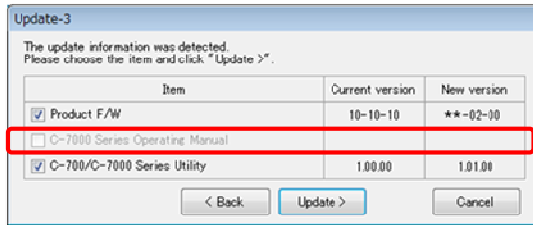


Figure 58 Update-3 [C-7000]

Items that do not require updating and items that are not installed are displayed in grayed-out characters, as shown in the red frames in Figure 58, because they are excluded from the updating.

4. Update-4

The update information is acquired and the update is performed sequentially for the items that are checked on the “Update-3” screen.

An ongoing acquisition process of the update information can be cancelled by clicking the “Cancel” button.

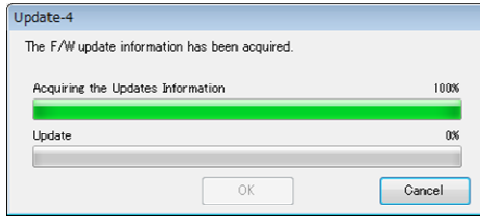


Figure 59 Update-4 (The F/W update information has been acquired)

The “Cancel” button is disabled during the update.

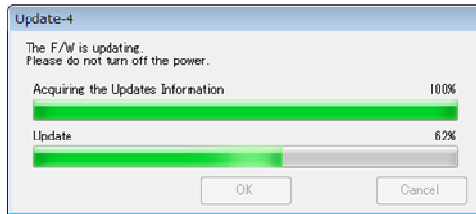


Figure 60 Update-4 (Update)

CAUTION

During the update of the SPECTROMASTER F/W, do not turn off the power to SPECTROMASTER or remove the USB cable. Otherwise, SPECTROMASTER may not work correctly.

After the update of the SPECTROMASTER F/W is completed, the meter is automatically turned off. Turn on the power of SPECTROMASTER to check the status.

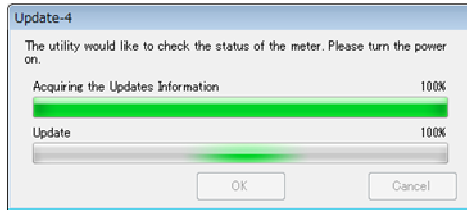


Figure 61 Update-4 (Update)

After the update of all items is completed, click the "OK" button.

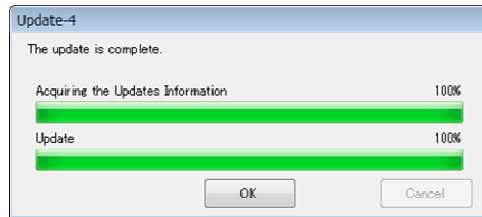


Figure 62 Update-4 (The update is complete)

7.6.1 Proxy Setting

This screen is used to set a proxy if it is needed for an updating process.

1. When connecting without using a proxy

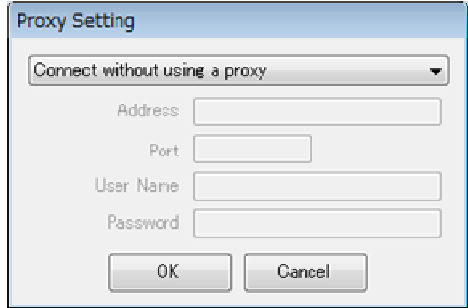


Figure 63 Proxy Setting-1

2. When connecting using the default proxy of the OS (Windows or OS X)

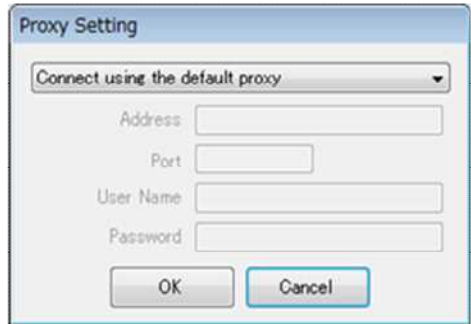


Figure 64 Proxy Setting-2

3. When connecting using a proxy set on this screen

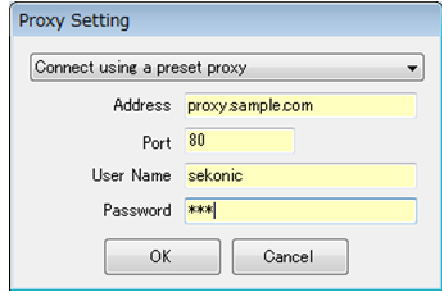


Figure 65 Proxy Setting-3

 **NOTICE**

To change the settings on this screen, restart this application according to the following procedure:

- Step 1 Click the “OK” button on this screen to return to the “Update-1” screen.
- Step 2 Click the “Cancel” button on the “Update-1” screen to return to the “Main” screen.
- Step 3 Restart this application.

8. Appendix

Memory data saving formats

For details on memory data, please refer to “7.4 Memory Data Management screen” (➡ Page 35).

Table 7 CSV-format fields ([C-700/C-700R])

| Field No. | Field content | Remarks |
|-----------|------------------------------|--|
| 1 | Date Saved | |
| 2 | Title | Memory data name |
| 3 | - | Blank |
| 4 | Measuring Mode | |
| 5 | Digital/Film | |
| 6 | CCT [K] | |
| 7 | Δuv | |
| 8 | Illuminance (Exposure)-1 | Please refer to "Table 6" (➡ Page 44) |
| 9 | Illuminance (Exposure)-2 | |
| 10 | Reference CCT [K] | |
| 11 | LB Index [MK ⁻¹] | |
| 12 | LB Camera Filter | |
| 13 | LB Lighting Filter | |
| 14 | CC Index [M]/[G] | |
| 15 | CC Camera Filter | |
| 16 | CC Lighting Filter | |
| 17 | CRI Ra | |
| 18 | CRI R1 | |
| ~ | - | |
| 31 | CRI R14 | |
| 32 | CRI R15 | |

Table 8 CSV-format data field [C-7000]

| Field No. | Field content | Remarks |
|-----------|---|--|
| 1 | Date Saved | |
| 2 | Title | Memory data name |
| 3 | - | Blank |
| 4 | Measuring Mode | |
| 5 | Viewing Angle [deg] | |
| 6 | CCT [K] | |
| 7 | Δuv | |
| 8 | Illuminance (Exposure)-1 | Please refer to "Table 6" (➡ Page 44) |
| 9 | Illuminance (Exposure)-2 | |
| 10 | Peak Wavelength [nm] | |
| 11 | Tristimulus Value X | |
| 12 | Tristimulus Value Y | |
| 13 | Tristimulus Value Z | |
| 14 | CIE1931 x | |
| 15 | CIE1931 y | |
| 16 | CIE1931 z | |
| 17 | CIE1976 u' | |
| 18 | CIE1976 v' | |
| 19 | Dominant Wavelength [nm] | |
| 20 | Purity [%] | |
| 21 | PPFD [$\mu\text{molm}^{-2}\text{s}^{-1}$] | |
| 22 | CRI Ra | |
| 23 | CRI R1 | |
| ~ | - | |
| 36 | CRI R14 | |
| 37 | CRI R15 | |
| 38 | - | Blank |
| 39 | Spectral Data (380 [nm]) | 5nm-step [$\text{W}\cdot\text{m}^{-2}\cdot\text{nm}^{-1}$] |
| 40 | Spectral Data (385 [nm]) | |
| ~ | - | |
| 118 | Spectral Data (775 [nm]) | |
| 119 | Spectral Data (780 [nm]) | |
| 120 | - | Blank |
| 121 | Spectral Data (380 [nm]) | 1nm-step [$\text{W}\cdot\text{m}^{-2}\cdot\text{nm}^{-1}$] |
| 122 | Spectral Data (381 [nm]) | |
| ~ | - | |
| 520 | Spectral Data (779 [nm]) | |
| 521 | Spectral Data (780 [nm]) | |

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