



User's Manual

SmartAXIS FT2J/1J

**MICRO/I HG2J/1J, HG5G/4G/3G/2G-V,
HG4G/3G, HG2G-5F/-5T, HG1G/1P**

FC6A/5A/4A MICROSmart

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Preface

This manual describes the functions, setting methods, cautions for use, and other information regarding WindEDIT Lite.

Please read this manual carefully and use WindEDIT Lite correctly only after understanding its functions and capabilities.

Store this manual carefully so that it may be referenced any time.

Symbols Used in this Manual

This manual uses the following symbols to facilitate explanation.

Symbols



..... Information that requires special attention. Failure to operate the product in accordance with the information provided can lead to serious injury or damage.



..... Information relating to requests or material to reference in the use of a function



..... Useful information relating to a function

OK

..... Screen buttons are indicated by **bold** text or by using the actual graphic icon.

..... Controls are indicated by **bold** text.

Abbreviations, Generic Terms, and Terminology Used in this Manual

Item	Description
SmartAXIS	Generic term for integrated display controller FT2J/1J.
MICROsmart	Generic term for programmable logic controller FC6A and FC5A-D12X1E.
MICRO/I	Generic term for programmable display HG2J/1J, HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T and HG1G/1P.
External Device	Generic term used to refer to a PLC or micro computer that is connected to and communicates with the SmartAXIS or MICRO/I.
Device Address	Memory that is capable of storing values in unit of bits or words loaded on the SmartAXIS, MICROsmart, MICRO/I and external device.
WindO/I-NV4	Integrated configuration software application for creating projects of the SmartAXIS and MICRO/I.
WindLDR	WindLDR is a programming software to make ladder program for SmartAXIS and MICROsmart.
Project data	All data including screen data for operating SmartAXIS and MICRO/I created by WindO/I-NV4. The file extension is ".pn4".
ZNV Project File	A file created based on the project data by the WindO/I-NV4's download function or Data File Manager's Upload function. The file contains project data and system software. The file extension is ".znv".
ZNX Project File	A file created based on the project data by the WindO/I-NV4's download function. The file contains project data, system software, and operating system. The file extension is ".znx". This file cannot be uploaded since it contains the operating system of SmartAXIS or MICRO/I.
ZLD Project File	A file created by WindLDR, to operate PLC such as MICROsmart. The file contains user program (ladder program). The file extension is ".zld".
External Memory Device	The generic term for an SD memory card and a USB flash drive.
HMI Functions	The term refers to the functions such as screens and settings of SmartAXIS that can be created by the WindO/I-NV4.
Control Functions	The term refers to the control functions such as ladder program and setting of SmartAXIS that can be created by the WindLDR.

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Chapter 1 WindEDIT Lite Functions & Basic Operations

This chapter describes the supported models and functions of WindEDIT Lite, as well as how to install and start it.

1 WindEDIT Lite Specifications

1.1 Supported Models

The IDEC PLCs and Operator interfaces that are supported by WindEDIT Lite, and the WindEDIT Lite version are as follows.

Designation in WindEDIT Lite	Series Name	Abbreviation	Type Number	WindEDIT Lite version
PLC	MICROSmart	FC6A	FC6A-C16***E, FC6A-C24***E, FC6A-C40***E, FC6A-C40***EJ, FC6A-D16**CEE, FC6A-D32**CEE	1.0.0 or later
Operator interface	SmartAXIS	FT2J	FT2J-7U22*AF-B	3.0.0 or later
		FT1J	FT1J-4F1**AG-*	3.1.0 or later
	MICRO/I	HG2J	HG2J-7UT22TF-B	2.0.0 or later
		HG1J	HG1J-4FT22TG-*	3.1.0 or later
		HG5G/4G/3G-V	HG5G-VFXT22MF-B, HG4G-VCXT22MF-B, HG3G-V*XT22MF-*	1.2.0 or later
		HG2G-V	HG2G-V5FT22TF-*	
		HG1P	HG1P-ST32*	
		HG4G/3G	HG4G-CJT22*F-B, HG3G-*JT22*F-*	1.1.0 or later
		HG2G-5F	HG2G-5FT22TF-*	
		HG2G-5T	HG2G-5T*22TF-*	
HG1G	HG1G-4VT22TF-*			



When using the following models, system software compatible with WindEDIT Lite is required.

FC6A-C16***E, FC6A-C24***E, FC6A-C40***E, FC6A-C40***EJ: Version 1.5.0 or later
 HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P: Version 4.55 or later

1.2 Supported Operating Systems

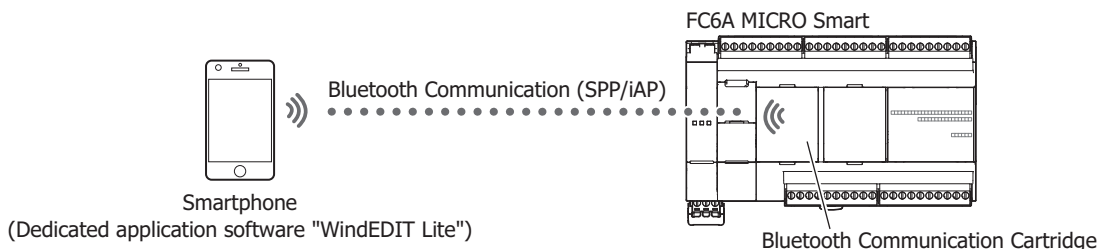
The operating systems and versions that are supported by WindEDIT Lite are as follows.

OS	Version
iOS	14 or later
Android	8 or later

1.3 What Can be Done Using WindEDIT Lite

WindEDIT Lite is application software that connects to IDEC PLC and Operator interface to operate them using an iOS or Android device. A smartphone can connect to IDEC PLC or Operator Interface.

Example) Communication over Bluetooth for maintenance between a smartphone and a FC6A MICROSmart



Ethernet can also be used for a connection.

For PLC communication settings, refer to the FC6A MICROSmart Communication Manual.

For Operator interface communication settings, refer to the WindO/I-NV4 User's Manual.

The following functions can be used in WindEDIT Lite.

Function	MICRO Smart	SmartAXIS	MICRO/I	
	FC6A	FT2J/1J	HG2J/1J	HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P
Changing the operating status of the PLC and the ladder program to RUN or STOP	Yes	Yes	No	No
Downloading or Uploading a ZLD Project File (.zld)	Yes	No	No	No
Downloading or Uploading a ZNV Project File (.znv)	No	Yes	Yes	Yes*1
Downloading the ZNX Project File (.znx)	No	Yes	Yes	No
Downloading the system software	Yes	No	No	No
Downloading files and folders to the external memory device	Yes	Yes	Yes	Yes
Uploading files and folders from the external memory device	Yes	Yes	Yes	Yes
Device Address Monitor	Yes	Yes	Yes	Yes
Custom Monitor	Yes	No	No	No
Deleting data from the internal memory or the external memory device	Yes*2	Yes	Yes	Yes
Formatting the external memory device	Yes	No	No	Yes
Displaying or operating files and folders in the external memory device	Yes	Yes	Yes	Yes
Displaying the status or the system information	Yes	Yes	Yes	Yes

*1 Only projects created by WindO/I-NV4 are supported, those created by WindO/I-NV2 are not supported.

*2 The internal memory only

2 Installing and Starting the Application

2.1 WindEDIT Lite Installation




When using a data communication service to download the application, separate packet communication charges may apply.

- 1 Install WindEDIT Lite with the following procedures.
 - **iOS**
Input "WindEDIT Lite" into the search field of the App Store.
 - **Android**
Input "WindEDIT Lite" into the search field of Google Play.
- 2 Complete installation of WindEDIT Lite.

2.2 Starting WindEDIT Lite

- When using Ethernet to connect to the PLC or Operator interface, use Wi-Fi to connect the smartphone to the network that the PLC or Operator interface is connected to.
- When using Bluetooth to connect to the PLC, turn on the Bluetooth function of the smartphone.

1 Display the home screen, then tap  (WindEDIT Lite) icon.

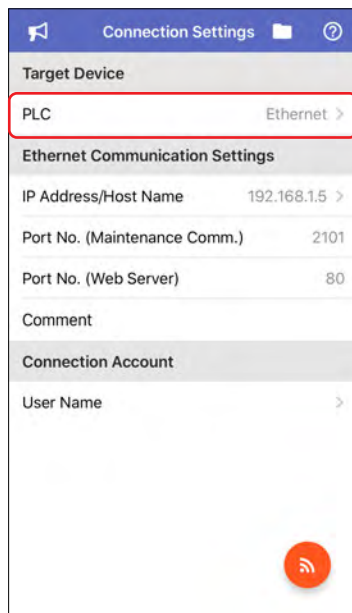
The **Connection Settings** screen is displayed.

2 Under **Target Device**, select the target device and communication method.

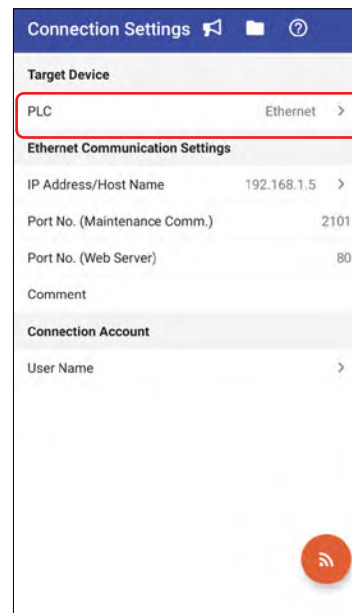
To change the displayed setting, tap it under **Target Device**. The Target Device screen is displayed.

If no change is needed, proceed to step 6.

iOS

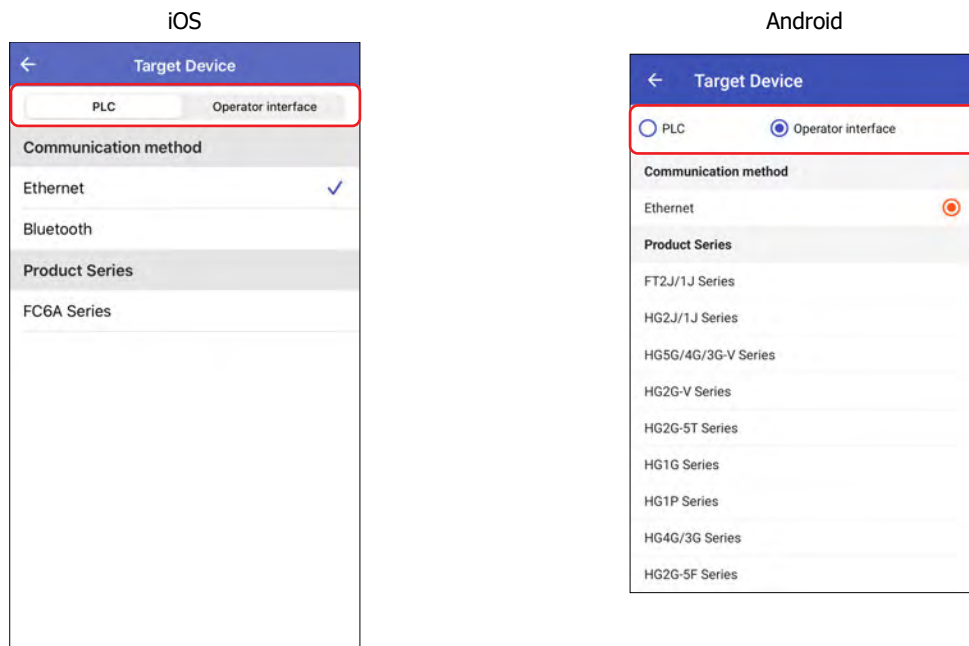


Android



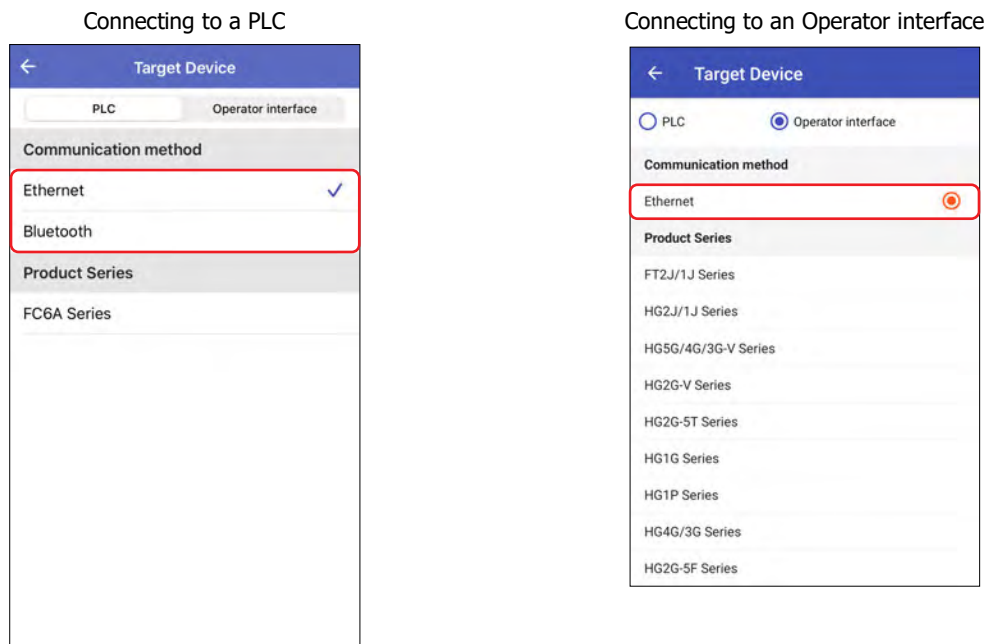
3 Select a target device.

When connecting to a PLC with a smartphone, tap **PLC**. When connecting to an Operator interface with a smartphone, tap **Operator interface**.



From here on, the explanations use iOS screen images.

4 Under **Communication method**, tap **Ethernet** or **Bluetooth***1.



5 Tap (Back).

The screen goes back to the **Connection Settings**.

*1 This can only be configured when **PLC** is selected for **Communication method**.

6 Set the communication method.

To change the displayed setting, tap it under **Ethernet Communication Settings** or **Bluetooth Communication Settings**.

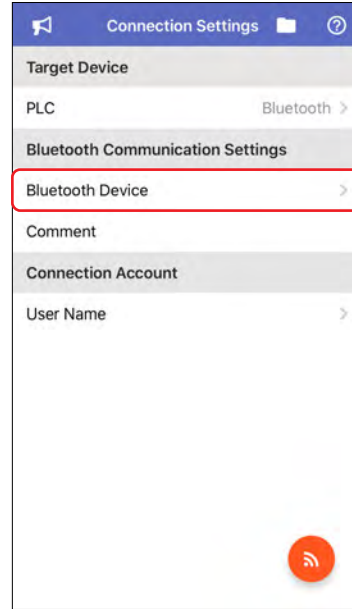
The **Target Device List** screen or **Target Bluetooth Device List** screen is displayed.

For details, refer to "Target Device List Screen" on page 1-10 or "Target Bluetooth Device List Screen" on page 1-15. When not changing it, proceed to step 9.

Ethernet is selected for **Communication method**

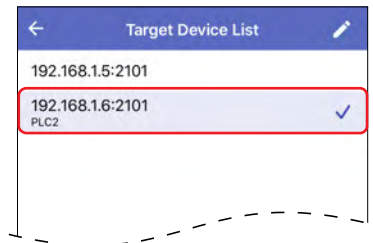


Bluetooth is selected for **Communication method**



In case the operator interface is selected, **Operator Interface** is displayed under **Target Device**.

7 On **Target Device List** screen or **Target Bluetooth Device List** screen, tap a target device. The ✓ (checkmark) is displayed at the right end of the selected target device.

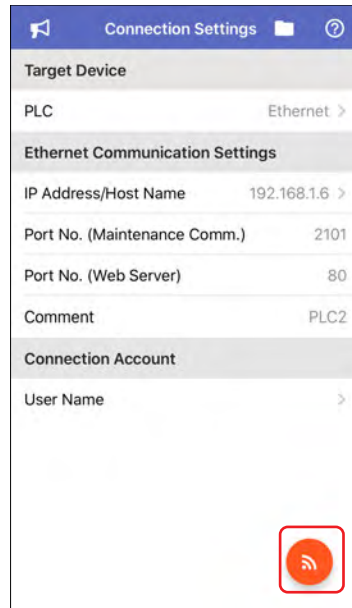


8 Tap ← (Back).

The screen goes back to **Connection Settings** screen.



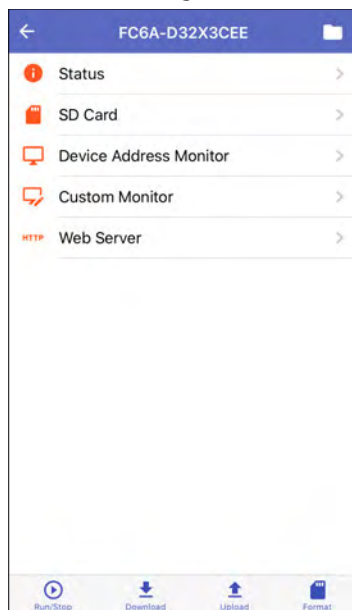
9 Tap  (Connect).



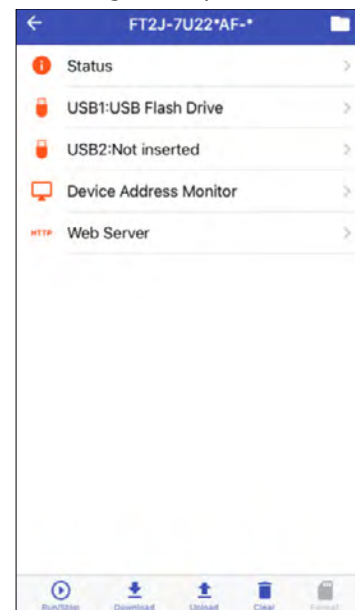
When a connection account (user name and password) for WindEDIT Lite is set in the PLC, input the password into **Connection Account**.

After connecting to the target device, the main screen of WindEDIT Lite will open.

Connecting to a PLC



Connecting to an Operator interface



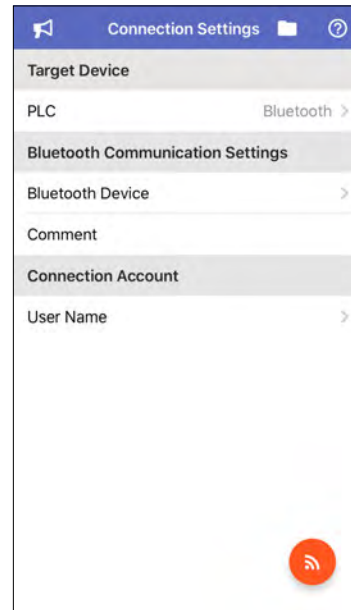
2.3 Connection Settings Screen

Set a target device and a communication method.

Ethernet is selected for **Communication method**



Bluetooth is selected for **Communication method**



■ Target Device

A target device and a communication method are displayed.

Tap the settings to display **Target Device** screen, the target device and the communication method can be set.

On **Target Device** screen, select **PLC** or **Operator interface** for the target device, and **Ethernet** or **Bluetooth** for the communication method of the target device.

■ Ethernet Communication Settings

This can only be set when **Ethernet** is selected for **Communication method**.

Tap the settings to display **Target Device List** screen, the details of the communication method can be set.

For details, refer to "Target Device List Screen" on page 1-10.

IP Address/Host Name: The IP address or the host name of the target device is displayed.

Port No. (Maintenance Comm.): The port number of the target device for maintenance communication is displayed.

Port No. (Web Server): The port number of the target device for Web server function is displayed.

Comment: The comment for the target device is displayed.

■ Bluetooth Communication Settings*¹

This can only be set when **Bluetooth** is selected for **Communication method**.

Tap the settings to display **Target Bluetooth Device List** screen, the target device can be set.

For details, refer to "Target Bluetooth Device List Screen" on page 1-15.

Bluetooth Device: The device name of the target device is displayed.

Comment: The comment configured to the target device is displayed.

*1 This can only be configured when **PLC** is selected for **Communication method**.

■ **Connection Account***1

When a connection account (user name and password) for WindEDIT Lite is configured on the PLC, tap **User Name**, then enter the user name and password in the displayed connection account.

The connection account is configured in the **Function Area Settings** of WindLDR. When the account privileges are set to **Read-Only**, the following operations cannot be performed.

- Downloading ZLD project files (.zld)
- Downloading system software
- Downloading files and folders to an external memory device
- Writing with the Device Address Monitor
- Clearing data in internal memory and the external memory device
- Formatting the external memory device
- Creating new folders
- Renaming files and folders
- Deleting files and folders

For the Connection Account configuration procedure, refer to "User Account Settings" in "Chapter 9 Bluetooth Communication" of FC6A MICROSmart Communication Manual.

■ **(Connect)**

Your smartphone connects to the target device and the main screen of WindEDIT Lite is displayed.

■ **(Notification)**

The Notification screen is displayed. For details, refer to "3 Notification Screen" on page 1-19.

■ **(App Folder Management)**

The App Folder Management screen is displayed. For details, refer to "4 App Folder Management" on page 1-20.

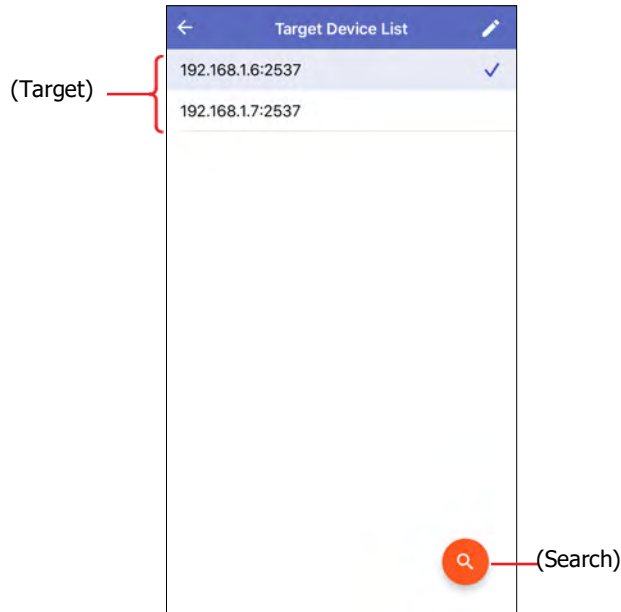
■ **(Help)**

The Help screen is displayed. For details, refer to "5 Help Screen" on page 1-22.

*1 This can only be configured when **PLC** is selected for **Communication method**.

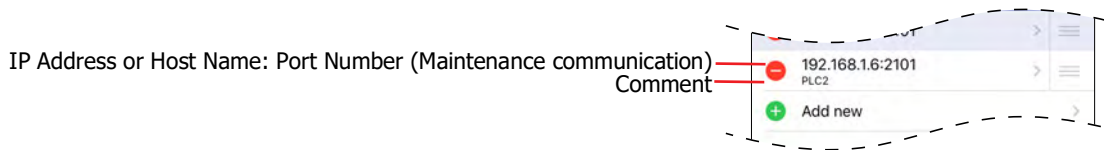
● **Target Device List Screen**

Target devices connecting via Ethernet communication is collectively managed on this screen.



■ **(Target)**

Displays the list of devices to connect via Ethernet communication. ✓ (checkmark) is displayed next to the device set as the target device.



IP Address or Host Name: Displays the IP address or the host name of the target device. The default varies based on the target device.

PLC: 192.168.1.5
Operator interface: 192.168.1.6

Port Number (Maintenance communication): Displays the port number of the target device. The default varies based on the target device.

PLC: 2101
Operator interface: 2537

Comment: Displays the comment configured to the target device.

■ **(Edit)**


Add, change or delete target devices on **Target Device List** screen. Tap to switch to edit mode. For details, refer to "Adding or changing target devices" on page 1-11 or "Deleting target devices" on page 1-13.

■ **(Search)*1**

Search the operator interface on the same network that can be connected to a computer via Ethernet communication. Tap to display the **Search Operator interface** screen. For details, refer to "Search Operator interface Screen" on page 1-14.

*1 This can only be configured when **Operator interface** is selected for **Communication method**.

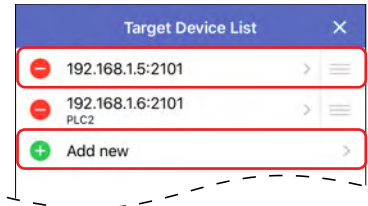
Adding or changing target devices

- 1 On the Target Device List screen, tap  (Edit).

You enter edit mode.

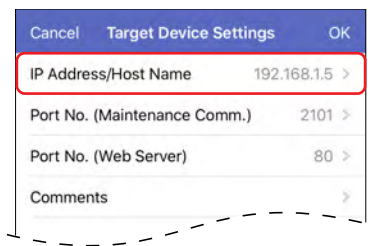


- 2 To add a target device connected via Ethernet communication, tap **Add new**.
To change a target device, tap its IP address or host name.
The **Target Device Settings** screen is displayed.



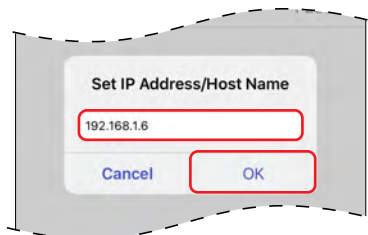
- 3 Tap **IP Address/Host Name**.

The **Set IP Address/Host Name** window is displayed.



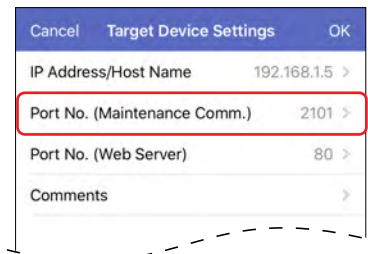
- 4 Inputs the IP address or the host name of the target device, then tap **OK**.

The input format is "xxx.xxx.xxx.xxx". Input a value between 0 and 255 for each "xxx".

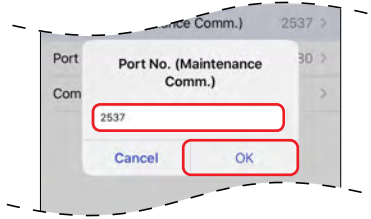


- 5 Tap **Port No. (Maintenance Comm.)**.

The **Port No. (Maintenance Comm.)** window is displayed.

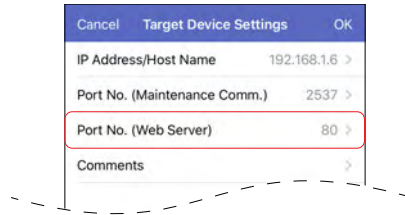


- Input the port number of the target device (0 to 65535), then tap **OK**.



Edit the Port Number (Web Server).

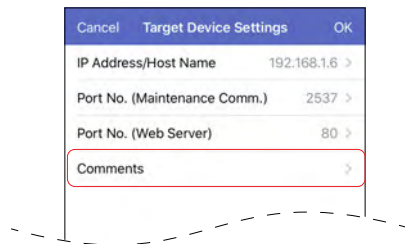
- Tap **Port No. (Web Server)**.
The **Port No. (Web Server)** window is displayed.



- Inputs the port number for Web server of the target device (0 to 65535), then tap **OK**.

Edit the Comment.

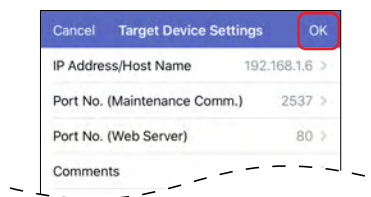
- Tap **Comment**.
The **Comment** window is displayed.



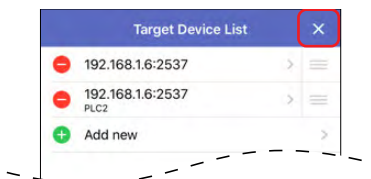
- Enter the comment, then tap **OK**.
The maximum number of characters is 80 characters.

- Tap **OK**.

The target devices are added or changed, and the screen goes back to **Target Device List** screen.



- Tap **✕** (Close).
Exits edit mode.




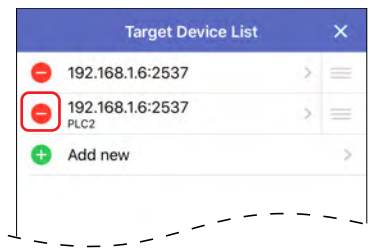
Deleting target devices

- 1 On **Target Device List** screen, tap  (Edit).

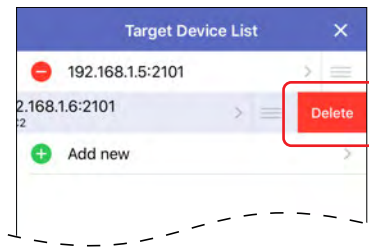
You enter edit mode.




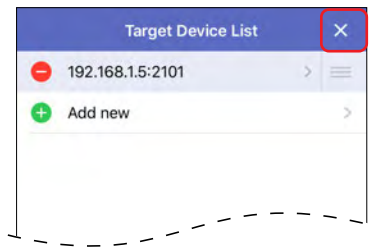
- 2 Tap  (Delete) on the left of the target device to delete.
Delete is displayed.



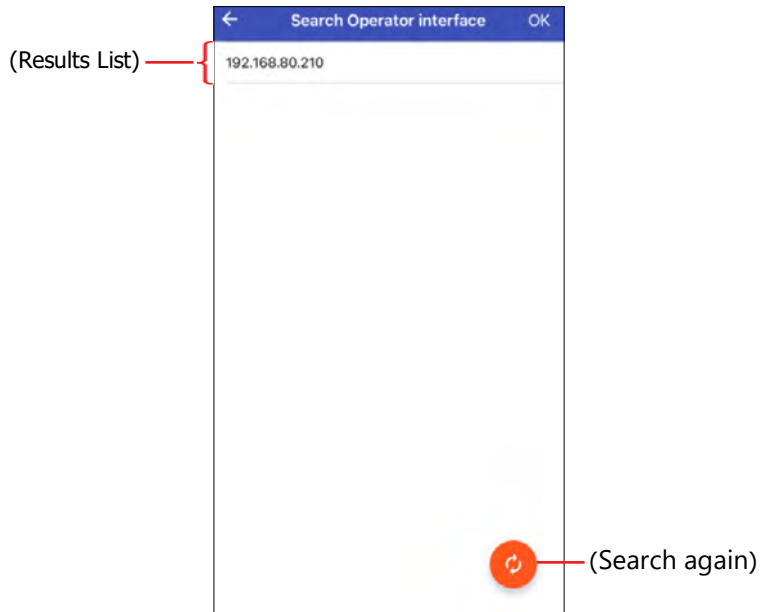
- 3 Tap **Delete**.
The target device is deleted from the list.



- 4 Tap  (Close).
Exits edit mode.



● Search Operator interface Screen

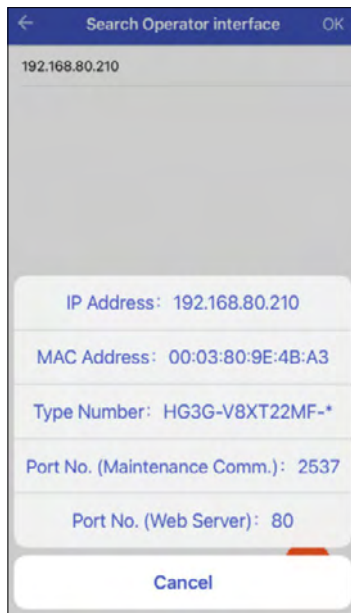


■ (Results List)

Displays the IP addresses of the operator interface found by the search. Select the operator interface to add to **Target Device List** screen..



Tap and hold an IP address to display the information of the operator interface on the window.



■  (Search again)

Searches again for the operator interface on the same network.

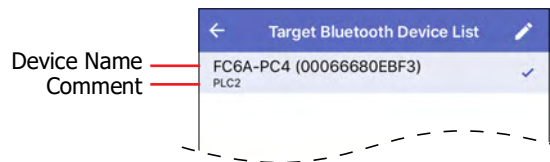
● Target Bluetooth Device List Screen

Target devices connecting via Bluetooth communication is collectively managed on this screen.



■ (Target)

Displays the list of paired Bluetooth devices. ✓ (checkmark) is displayed next to the device set as the target device.



Device Name: Displays the Bluetooth device name of the paired Bluetooth device.

Comment: Displays the comment of the paired Bluetooth device.

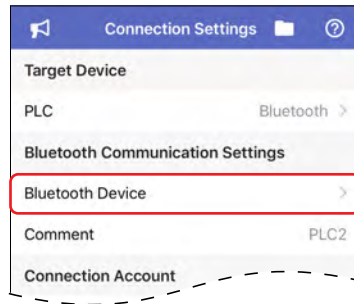
■ (Edit)

Add, change or delete target devices on **Target Bluetooth Device List** screen. Tap to change to edit mode. For details, refer to "Adding target devices" on page 1-16 or "Deleting target devices" on page 1-18.

Adding target devices

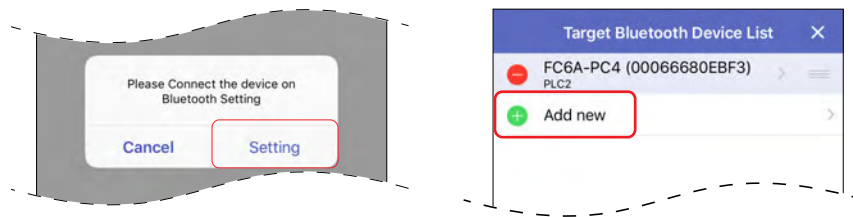
- 1 On **Connection Settings** screen, tap **Bluetooth Device** under **Bluetooth Communication Settings**.

When **Target Bluetooth Device List** screen is blank, a confirmation message is displayed. When the existing device is displayed, switches to edit mode.



- 2 Tap **Setting** when the confirmation message is displayed. Tap **Add new** when switching to edit mode.

The setting screen of the smartphone is displayed. Pair the smartphone with the Bluetooth device.



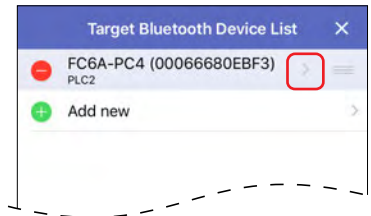


Edit the Comment

- 1 On **Target Bluetooth Device List** screen, tap  (Edit).
It switches to edit mode.



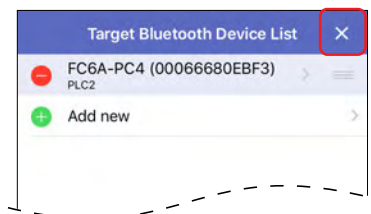
- 2 Tap > on the right of the Bluetooth device name.
The **Comment** window is displayed.



- 3 Enters a comment, then tap **OK**.
The maximum number of characters is 80 characters..



- 4 Tap  (Close).
Exits edit mode.




Deleting target devices

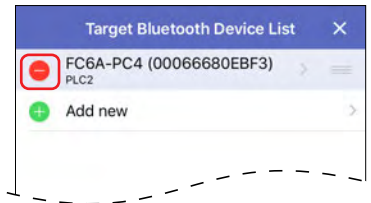
- 1 On the Target Bluetooth Device List screen, tap  (Edit).

You enter edit mode.



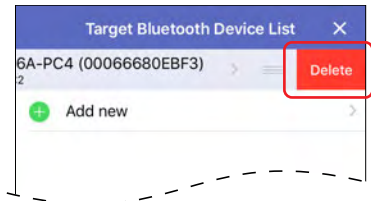
- 2 Tap  (Delete) on the left of the target device to delete.

Delete is displayed.



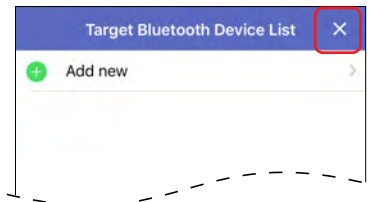
- 3 Tap **Delete**.

The target device is deleted from the list.



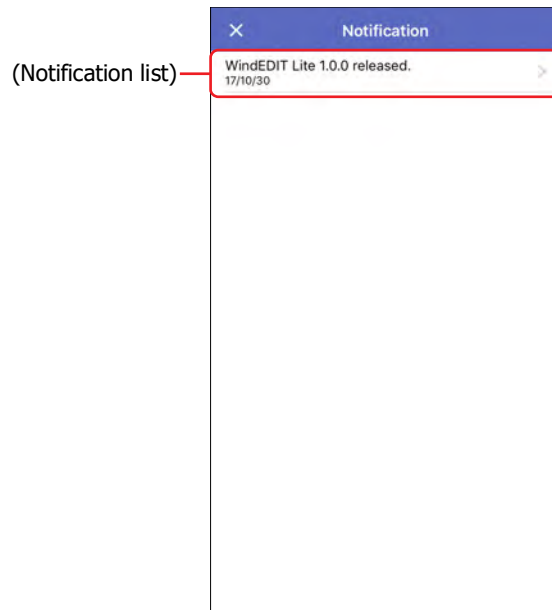
- 4 Tap  (Close).

Exits edit mode.



3 Notification Screen

Notification about WindEDIT Lite or Automation Organizer from IDEC is displayed.



Tap a item on (Notification list) to display the details.



To show the notification list and the details, the smartphone must be connected to the internet.

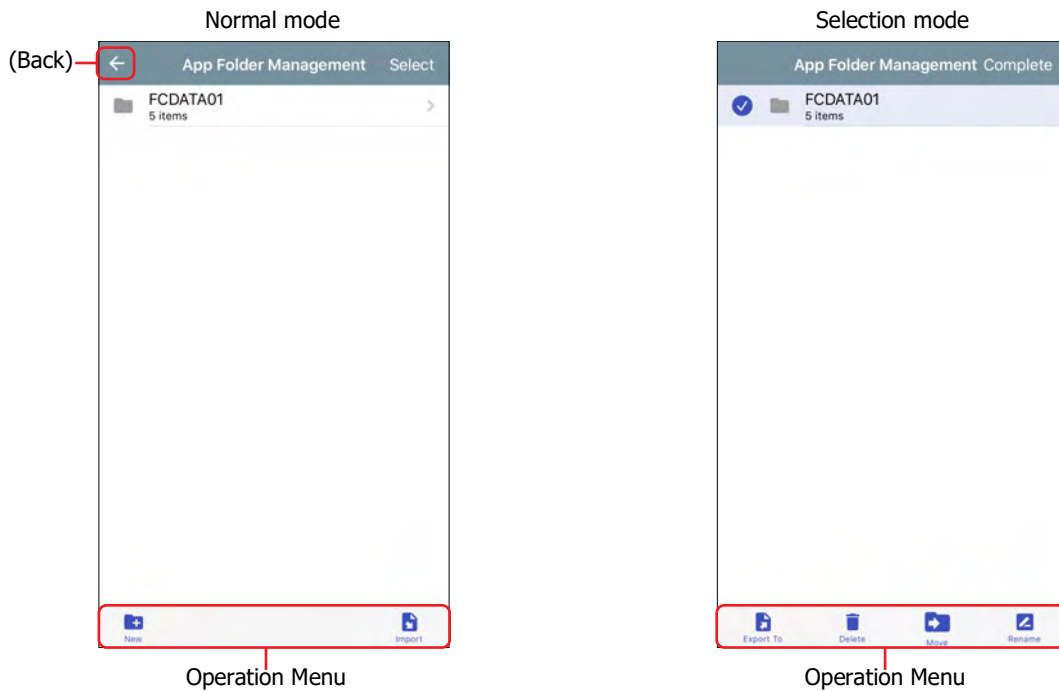
4 App Folder Management

4.1 App Folder Management Screen

Displays the list of files and folders in WindEDIT Lite.

Folders can be added, deleted, or renamed.

You can also export files and folders to other smartphone apps, as well as import files and folders from other apps.



Files and folders in WindEDIT Lite can only be viewed or manipulated using WindEDIT Lite. They cannot be accessed by other apps or from a PC. If you uninstall WindEDIT Lite, the files and folders in WindEDIT Lite will also be deleted.

● Normal mode

Tap a folder to navigate within the folder hierarchy (higher or lower order).

■ ←(Back)


Tap the icon on the left of the screen title to go back to the previous screen.

■ Select

Tap the text on the right of the screen title to change to the selection mode.


■ Operation Menu

Tap an icon at the bottom of the screen to perform that operation for the selected files or folders.

 : Creates a new folder.

 : A list of applications for import is displayed.

- Selection mode


Tap the target file or folder to select it. A  mark is displayed next to a selected file or folder.

- **Complete**

Tap the text on the right of the screen title to change to normal mode.

- **Operation Menu**


Tap an icon at the bottom of the screen to perform that operation for the selected files or folders.

 : A list of applications for export is displayed.

 : Deletes the selected files or folders.

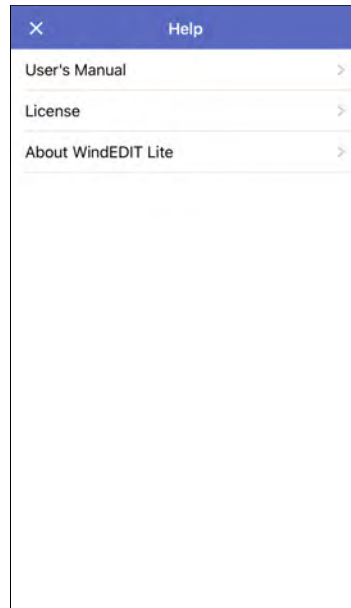
 : Moves the selected files or folders.

After tapping this icon, select the target folder, then tap Move to this folder.

 : Renames the selected file or folder.

5 Help Screen

The Help menu is displayed.



- **User's Manual**
Displays this manual.
- **License**
Displays the software license used by WindEDIT Lite.
- **About WindEDIT Lite**
Displays the version number of WindEDIT Lite.
- **X (Close)**
Closes the Help screen.

Chapter 2 How to Use during PLC connection

This chapter describes how to use WindEDIT Lite when connected to a PLC.

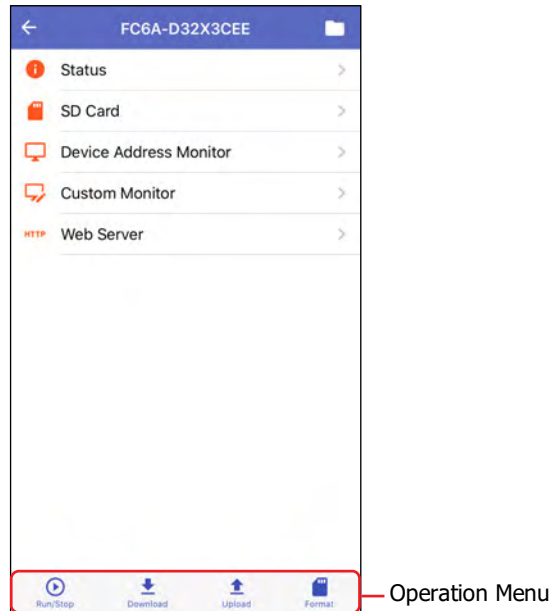
1 Main Screen

2

How to Use during PLC connection

1.1 Main Screen





When a connection is made with the target device, the main screen will open.



- **Status**
Displays the status of the target device. For details, refer to “2 Displaying the Status” on page 2-3.
- **SD Card**
Displays the SD Card screen. For details, refer to “3 Displaying or Manipulating Files and Folders” on page 2-4.
- **Device Address Monitor**
Displays the Device Address Monitor screen. For details, refer to “8 Device Address Monitor” on page 2-15.
- **Custom Monitor**
Displays the Custom Monitor screen. The values of device addresses registered into groups can be monitored and modified. The values of device addresses can also be displayed in a trend graph.
- **Web Server**
Starts a browser app, access the Web server and open the web page.

■ Operation Menu

You can tap the icons at the bottom of the screen to operate various functions.

-  : Changes the operating status of the PLC from "Stop" to "Run", or from "Run" to "Stop". For details, refer to "4 Changing the Operating Status of the PLC" on page 2-9.
-  : Writes ZLD project files (.zld) saved in a folder in WindEDIT Lite to the target device. This can also be used to write system software to a PLC. For details, refer to "5 Downloading" on page 2-10.
-  : Saves a program in the PLC as a ZLD project file (.zld) to a folder in WindEDIT Lite. For details, refer to "6 Uploading" on page 2-13.
-  : Formats the SD memory card inserted into the PLC. For details, refer to "7 Formatting the SD Memory Card" on page 2-14.

2 Displaying the Status

Tap **Status** on the main screen to display the status of the target device.

Status	
PLC Type	FC6A-D32X3CEE
System Software Version	1.40
Run/Stop Status	Running >
Scan Time (Current)	1 ms
Scan Time (Maximum)	1 ms
TIM/CNT Change Status	Unchanged >
Calendar	1/16/2020 2:50:01 PM
Write Protection	Unprotected
Read Protection	Unprotected
Error Status	Error >
Battery Voltage	90 %

PLC Type:	Displays the type number of the target device.
System Software Version:	Displays the version number of the system software in the target device.
Run/Stop Status:	Displays the current status of the PLC. Tap to start or stop the target device.
Scan Time (Current):	Displays the current value of the scan time for the user program in the target device.
Scan Time (Maximum):	Displays the maximum value of the scan time for the user program in the target device.
TIM/CNT Change Status:	Displays the status of the timer and counter preset values. Tap to display a confirmation message for the change.
	Confirm: Writes the changed values as a preset value of the timer and counter of the user program.
	Clear: Restores the original preset values of the user program.
Calendar:	Displays the internal clock data of the target device.
Write Protection:	Displays the setting of Write Program for the user program in the target device.
Read Protection:	Displays the setting of Read Program for the user program in the target device.
Error Status:	Tap to display the PLC Error Status dialog and check the errors currently occurring in the target device.
Battery Voltage:	The status of the backup battery level in the target device is displayed.

3 Displaying or Manipulating Files and Folders

3.1 Displaying Files and Folders

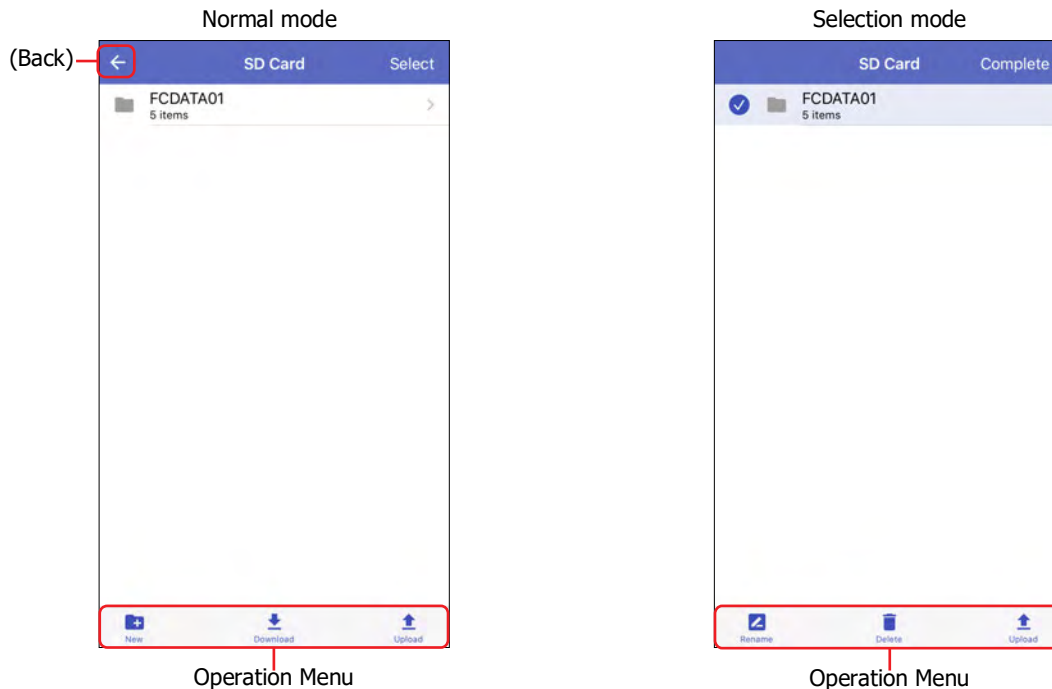
Tap **SD Card** on the main screen to display a list of files and folders stored on the SD memory card inserted into the target device.

Folders can be added or deleted, and files and folders can be renamed.



Do not manipulate files or folders during a read or write operation when using the following functions.

- Recipe function
- Data log save functions such as the DLOG instruction or TRACE instruction



● Normal mode

Tap a folder to navigate within the folder hierarchy (higher or lower order).

■ < (Back)

Tap the icon on the left of the screen title to go back to the previous screen.

■ Select

Tap the text on the right of the screen title to change to the selection mode.

■ Operation Menu


Tap an icon at the bottom of the screen to perform that operation for the selected files or folders.

: Creates a new folder.

: Writes files or folders saved in WindEDIT Lite to the SD memory card inserted in the PLC.

: Saves all displayed files and folders to a folder in WindEDIT Lite.

● Selection mode


Tap the target file or folder to select it.  mark is displayed next to a selected file or folder.

■ Complete

Tap the text on the right of the screen title to change to the normal mode.

■ Operation Menu

Tap an icon at the bottom of the screen to perform that operation for the selected files or folders.

 : Renames the selected file or folder.

 : Deletes the selected files or folders.

 : Saves the selected files or folders to a folder in WindEDIT Lite.


3.2 Downloading Files and Folders

Writes files or folders saved in WindEDIT Lite to the SD memory card inserted in the target device.

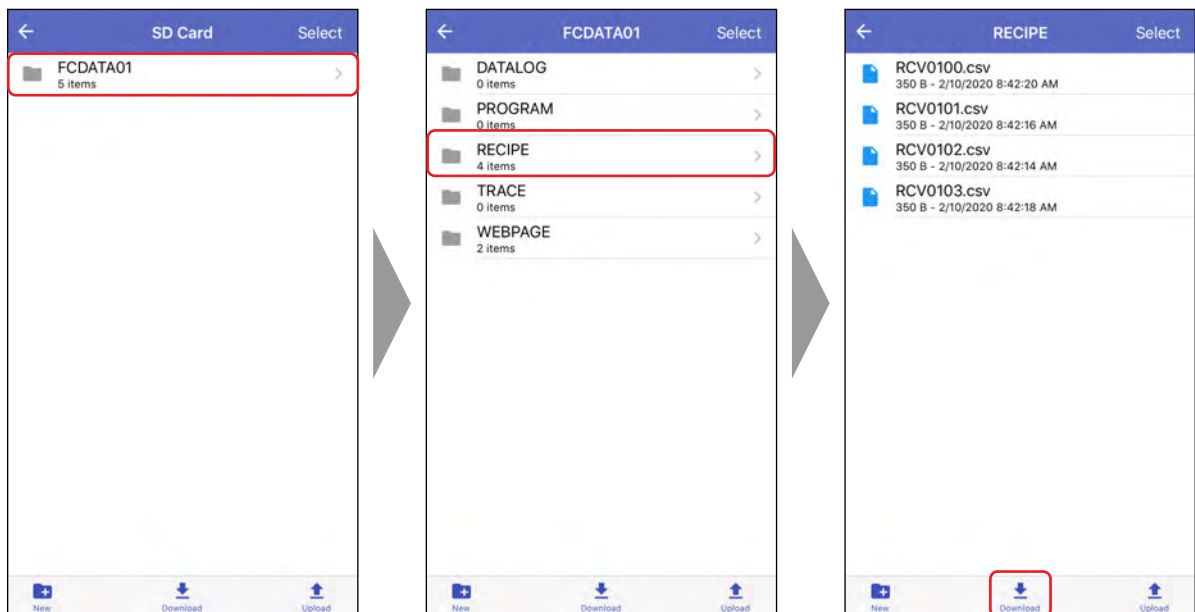


Do not download to the folder when it is being read or written by the following functions.

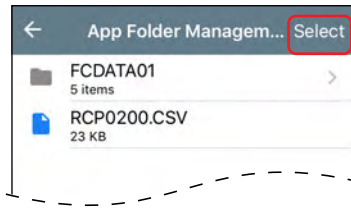
- Recipe function
- Data log save functions such as the DLOG instruction or TRACE instruction

- 1 On the SD Card screen, display the target download folder, then tap  .

The App Folder Management screen is displayed.



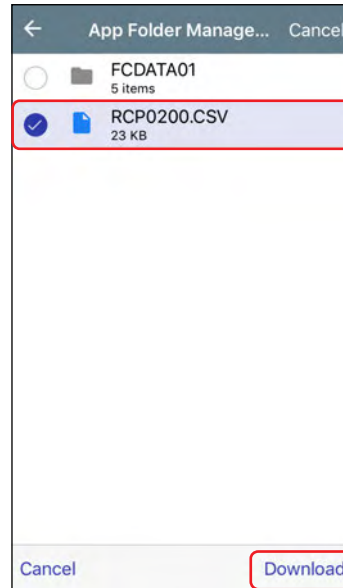
- 2 Display the files or folders to download, then tap **Select**.



- 3 Tap the files or folders to download, then tap **Download**.

The download starts.

When a file or folder with the same name exists at the download destination, an overwrite confirmation message is displayed.



This completes the download of files or folders.

3.3 Uploading Files and Folders

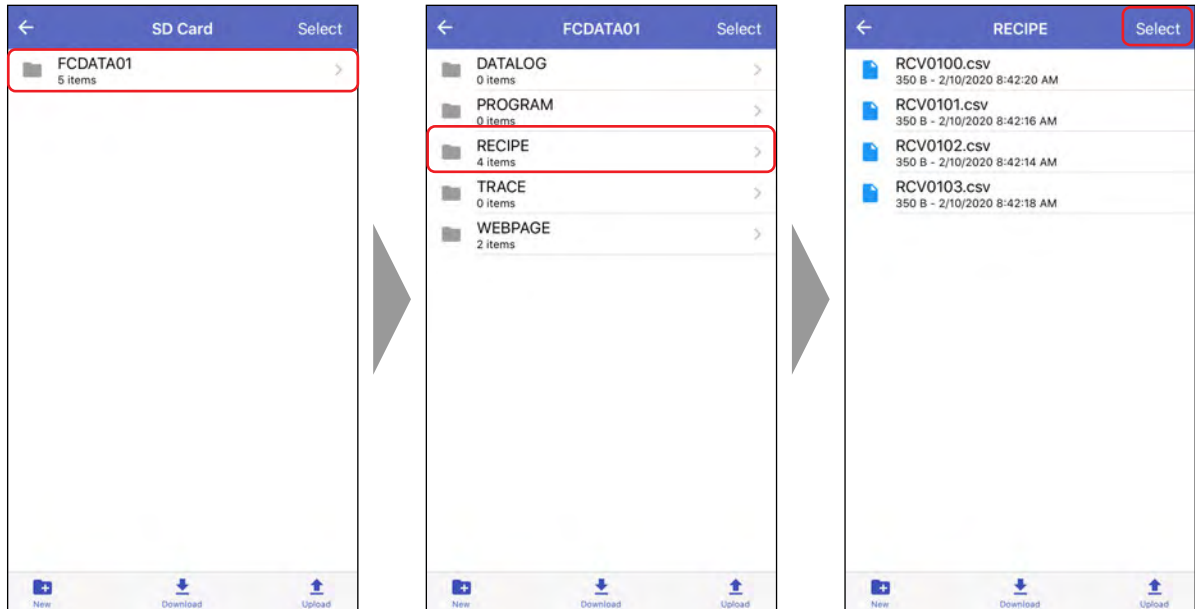
This operation saves the selected files or folders of the SD memory card inserted in the target device to a folder in WindEDIT Lite.




Do not upload files or folders during a read or write operation when using the following functions.

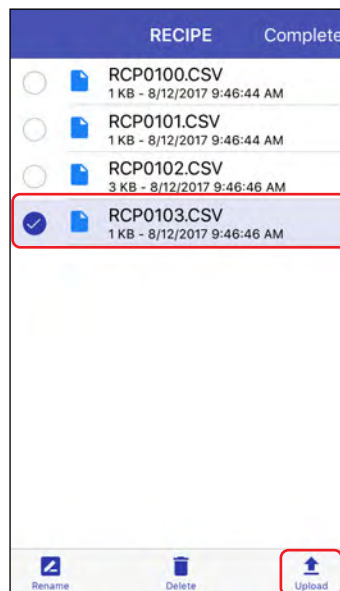
- Recipe function
- Data log save functions such as the DLOG instruction or TRACE instruction

- 1 On the SD Card screen, display the files or folders to upload, then tap **Select**.



- 2 Tap the files or folders to upload, then tap .

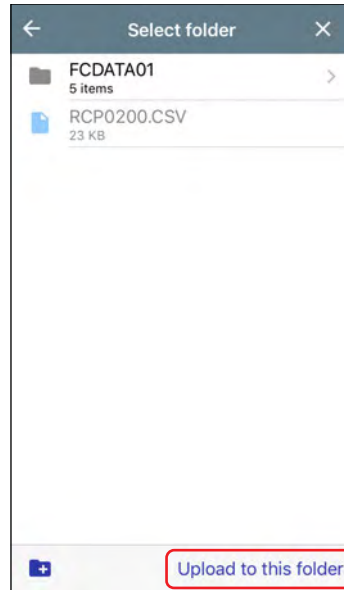
The App Folder Management screen is displayed.



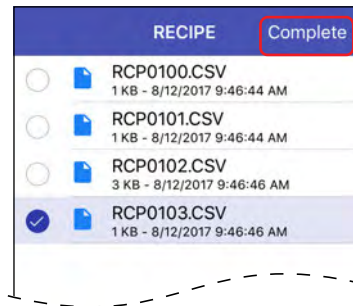
- 3 Display the save destination, then tap **Upload to this folder**.

The upload starts.

When a file or folder with the same name exists at the upload destination, an overwrite confirmation message is displayed.



- 4 Tap **Complete**.




This completes the upload of files or folders.

4 Changing the Operating Status of the PLC

4.1 Start/Stop Operation

By operating WindEDIT Lite, you can change the operating status of the PLC from "Stop" to "Run", or from "Run" to "Stop".

- 1 On the main screen operation menu, tap  .
A confirmation message is displayed.
- 2 Tap **Yes**.

Example) To start PLC operation



This completes the operation to start/stop PLC operation.

5 Downloading

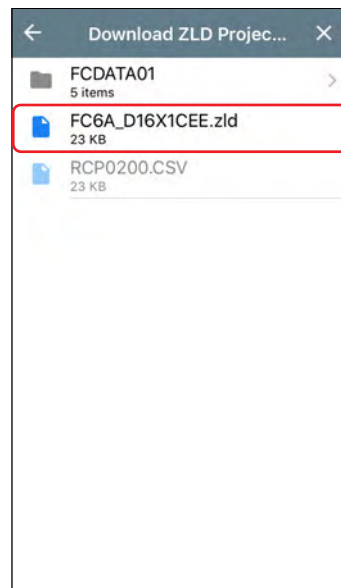
5.1 Downloading a ZLD Project File

This operation downloads ZLD project files (.zld) saved in a folder in WindEDIT Lite to the target device.

- 1 On the main screen operation menu, tap , then tap **ZLD Project**.



- 2 Tap a ZLD Project File (.zld).
The download starts.



If the PLC program of the target device is password-protected, the password input screen is displayed. Input the password.


This completes the download of the ZLD Project File (.zld).



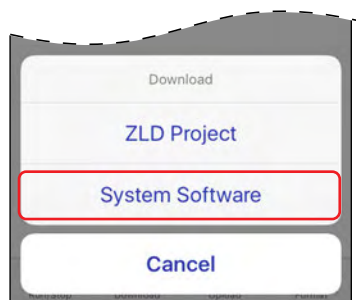
- Do not turn off the power of the target device while downloading a ZLD project file.
- In the following cases, restore power to the target device, then download the ZLD project file again.
 - ZLD project file download failed and communication was lost.
 - During communication between WindEDIT Lite and the target device, the connecting cable becomes disconnected, the power supply is lost, or the target device stops responding

5.2 Downloading System Software

This operation writes system software to a PLC.

- 1 On the main screen operation menu, tap , then tap **System Software**.

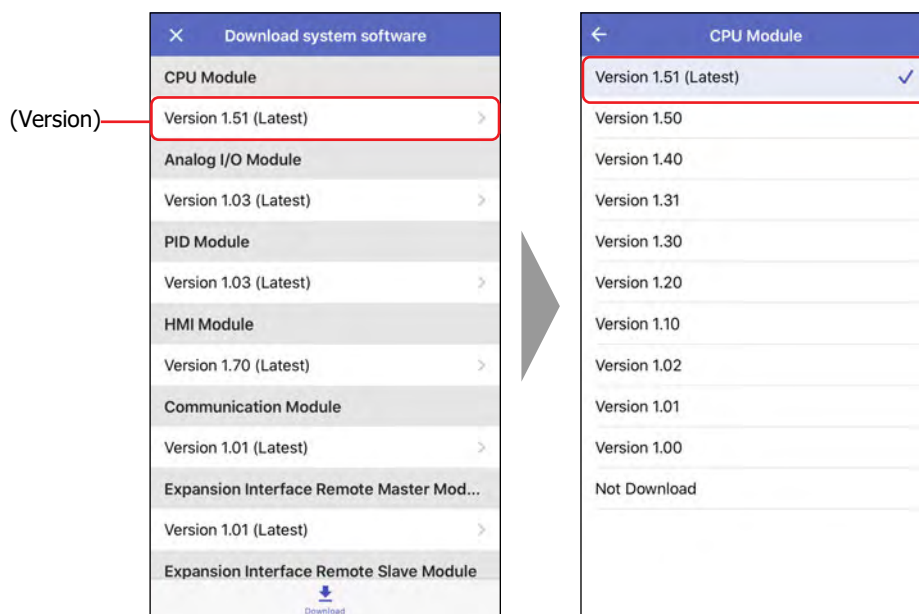
The System Software Download screen is displayed.



- 2 Tap the (Version) of each applicable module, then select a system software version.

If **Not Download** is selected, system software is not downloaded.

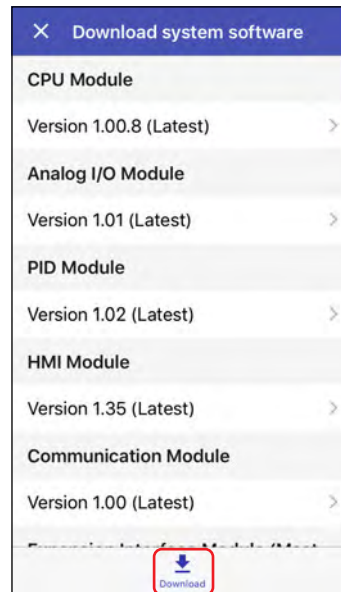
Example) FC6A-C40X1XE



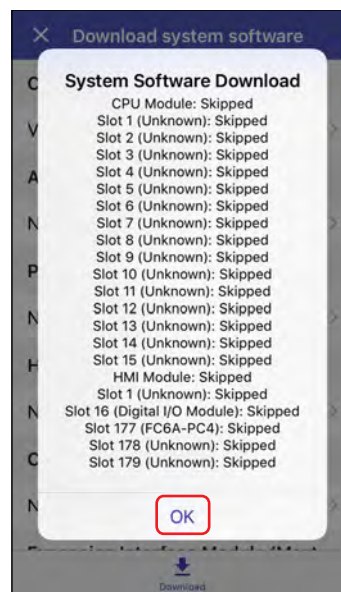
- 3 Tap  (Back).

4 Tap .

The system software download starts.



- 5 When the download is complete, a completion message is displayed. Tap **OK** to close the System Software Download screen.



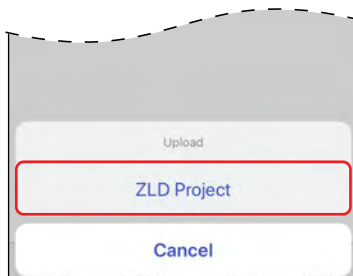
- After the system software is downloaded, the PLC will be stopped. Start operation of the PLC using WindEDIT Lite or WindLDR operations, PLC function switch operations, or HMI module LCD operations.
- User programs remain as-is after system software is downloaded. When the system software version is rolled back, user programs stored in the PLC may not be able to be run.
- If a system software download fails, download the system software again.
- When connecting using Bluetooth, system software cannot be downloaded.
- To acquire the latest system software, the smartphone must be connected to the internet.

6 Uploading

6.1 Uploading a ZLD Project File

This operation reads a program in the PLC of the target device, and saves it as a ZLD project file (.zld) to a folder in WindEDIT Lite.

- 1 On the main screen operation menu, tap , then tap **ZLD Project**.

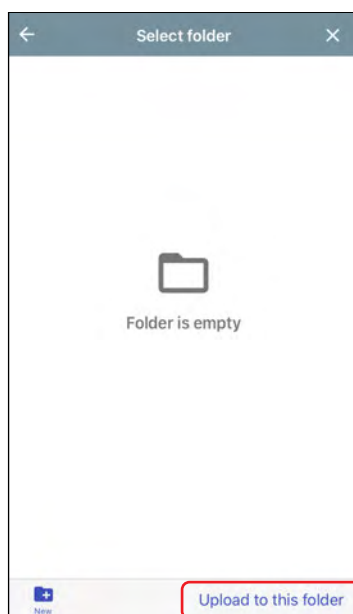


- 2 Display the save destination, then tap **Upload to this folder**.

The upload starts.

When a file with the same name exists at the upload destination, an overwrite confirmation message is displayed.

- Tap **OK** to start the file upload.



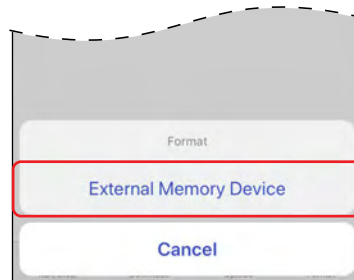
If the PLC program of the target device is password-protected, the password input screen is displayed. Input the password.

This completes the upload of the ZLD Project File (.zld).

7 Formatting the SD Memory Card

This operation formats the SD memory card inserted into the target device.

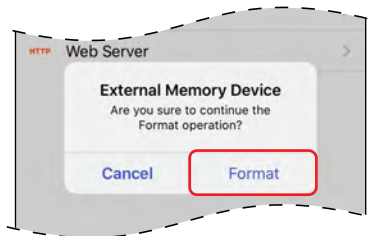
- 1 On the main screen operation menu, tap , then tap **External Memory Device**.



A confirmation message is displayed.

- 2 Tap **Format**.

The format is executed.

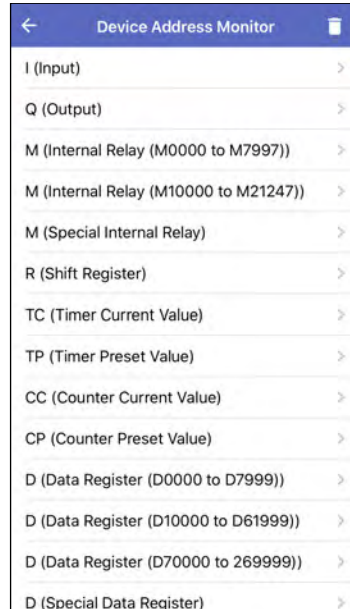


This completes formatting of the SD memory card.

8 Device Address Monitor

8.1 Device Address Monitor Screen

Tap Device Address Monitor on the main screen to display the Device Address Monitor screen. Values for device addresses during operation can be monitored or changed.



● Supported Device Address

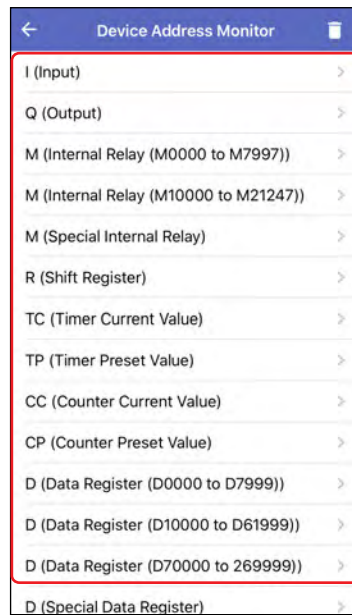
The range of device address and the maximum number of data that can be read and written is as follows:

Internal Device Name	Device Address (Maximum number of data)		
	FC6A-C16	FC6A-C24	FC6A-C40XEJ
Input	I0 to I10 (9)	I0 to I15 (14)	I0 to I27 (24)
	I30 to I187 (128)	I30 to I307 (224)	
	I190 to I507 (256)	I310 to I627 (256)	
	I630 to I633 (4)		I630 to I637 (8)
Output	Q0 to Q6 (7)	Q0 to Q11 (10)	Q0 to Q17 (16)
	Q30 to Q187 (128)	Q30 to Q307 (224)	
	Q190 to Q507 (256)	Q310 to Q627 (256)	
	Q630 to Q633 (4)		Q630 to Q637 (8)
Internal Relay	M0 to M7997 (6400)		
	M10000 to M17497 (6000)		
Special Internal Relay	M8000 to M8317 (256)		
Shift Register	R0 to R255 (256)		
Timer Current value	TC0 to TP1023 (1024)		
Timer Preset value	TP0 to TP1023 (1024)		
Counter Current value	CC0 to CP511 (512)		
Counter Preset value	CP0 to CP511 (512)		
Data Register	D0 to D7999 (8000)		
	D10000 to D55999 (46000)		
Special Data Register	D8000 to D8499 (500)		

Internal Device Name	Device Address (Maximum number of data)	
	FC6A-D16	FC6A-D32
Input	I0 to I7 (8)	I0 to I17 (16)
	I30 to I307 (224)	
	I310 to I627 (256)	
	I630 to I643 (12)	
	I1000 to I10597 (2016)	
Output	Q0 to Q7 (8)	Q0 to Q17 (16)
	Q30 to Q307 (224)	
	Q310 to Q627 (256)	
	Q630 to Q643 (12)	
	Q1000 to Q10597 (2016)	
Internal Relay	M0 to M7997 (6400)	
	M10000 to M21247 (9000)	
Special Internal Relay	M8000 to M9997 (1600)	
Shift Register	R0 to R255 (256)	
Timer Current value	TC0 to TP1999 (2000)	
Timer Preset value	TP0 to TP1999 (2000)	
Counter Current value	CC0 to CP511 (512)	
Counter Preset value	CP0 to CP511 (512)	
Data Register	D0 to D7999 (8000)	
	D10000 to D61999 (52000)	
Non-retentive Data Register	D70000 to D269999 (200000)	
Special Data Register	D8000 to D8899 (900)	

8.2 Monitoring Device Addresses

- 1 Tap the device type to monitor device addresses for.
The Device Address Details screen is displayed.

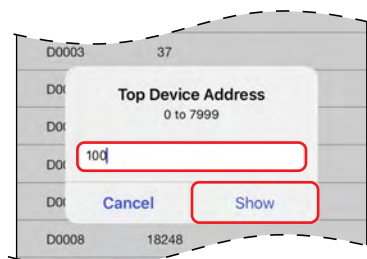


- 2 Tap  (Top Device Address).

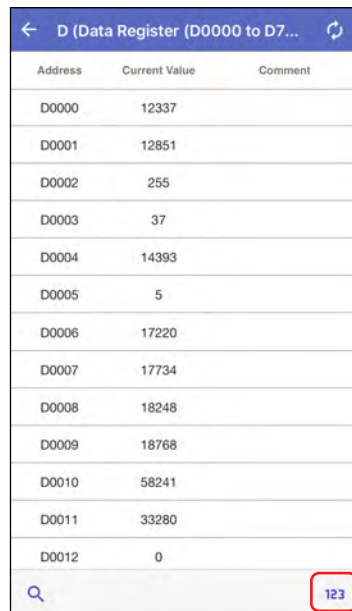
The screenshot shows the 'D (Data Register (D0000 to D7...))' screen with a table of addresses and current values. A red box highlights the magnifying glass icon at the bottom left.

Address	Current Value	Comment
D0000	12337	
D0001	12851	
D0002	255	
D0003	37	
D0004	14393	
D0005	5	
D0006	17220	
D0007	17734	
D0008	18248	
D0009	18768	
D0010	58241	
D0011	33280	
D0012	0	

- 3 Input the top device address number for the displayed device address, then tap **Show**.



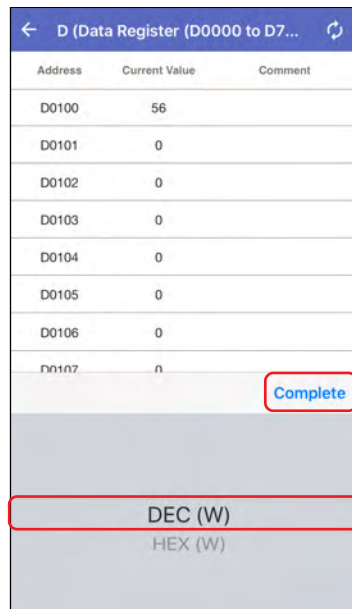
- 4 Tap **123** (Display Format).



Address	Current Value	Comment
D0000	12337	
D0001	12851	
D0002	255	
D0003	37	
D0004	14393	
D0005	5	
D0006	17220	
D0007	17734	
D0008	18248	
D0009	18768	
D0010	58241	
D0011	33280	
D0012	0	

123

- 5 Change the display format for the current value of the device address, then tap **Complete**.



Address	Current Value	Comment
D0100	56	
D0101	0	
D0102	0	
D0103	0	
D0104	0	
D0105	0	
D0106	0	
D0107	0	

Complete

DEC (W)
HEX (W)

- 6 Tap the current value of the device address, then change the value.

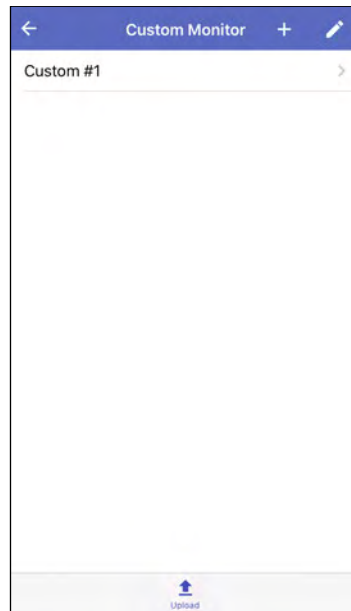


Address	Current Value	Comment
D0100	1	
D0101	0	
D0102	0	
D0103	0	
D0104	0	
D0105	0	
D0106	0	
D0107	0	
D0108	0	
D0109	0	
D0110	0	
D0111	0	
D0112	0	

9 Custom Monitor

9.1 Custom Monitor Screen

Tap **Custom Monitor** on the main screen to display the Custom Monitor screen. The values of device addresses registered into groups can be monitored and modified. The values of device addresses can also be displayed in a trend graph.



Gets the custom monitor and comment information from the target device.

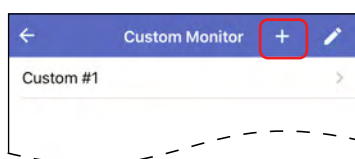
- **Supported Device Address**

The range of device addresses that can be written and read and the maximum amount of data are same as the Device Address Monitor. For details, refer to "Supported Device Address" on page 2-15.

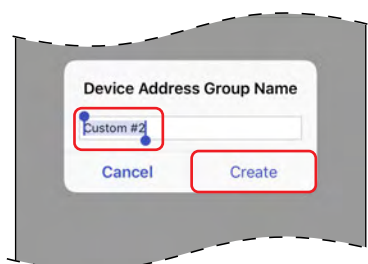
9.2 Monitoring Device Addresses

● Creating a Device Address Group

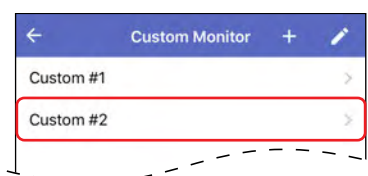
- 1 Tap **+** (Add) on the Custom Monitor screen.
You enter edit mode.



- 2 Enter the group name and tap **Create**.
The maximum length is 44 single-byte characters.

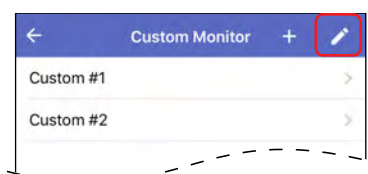


The device address group is created.

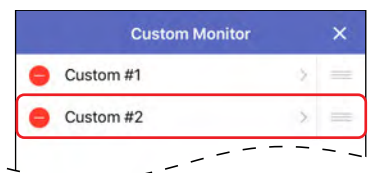


● Changing a Device Address Group

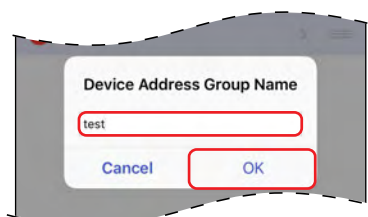
- 1 Tap **✎** (Edit) on the Custom Monitor screen.
You enter edit mode.



- 2 Tap the name of the device address group.



- 3 Enter the group name and tap **OK**.
The maximum length is 44 single-byte characters.

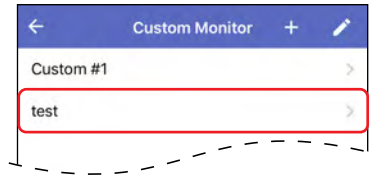


- 4 Confirm that the name of the device address group was changed, then tap  (Close).

The screen goes back to the Custom Monitor screen.



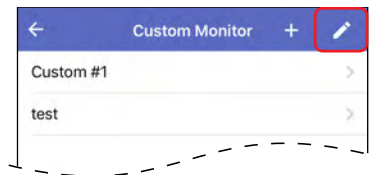
The changed name of the device address group is displayed on the Custom Monitor screen.



● Deleting a Device Address Group

- 1 Tap  (Edit) on the Custom Monitor screen.

You enter edit mode.

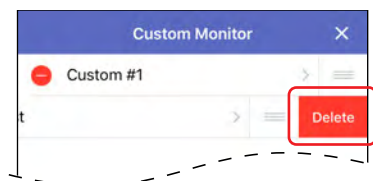


- 2 Tap  (Delete) for the device address group to delete.



- 3 Tap **Delete**.

The device address group is deleted from **Custom Monitor** screen.



- 4 Tap  (Close).

The Screen goes back to **Custom Monitor** screen.

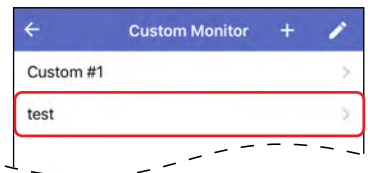


● Registering and Monitoring Device Addresses

This operation registers the device addresses to monitor, then those device addresses can be monitored.

- 1 On the Custom Monitor screen, tap the device address group to which the device addresses to monitor will be registered.

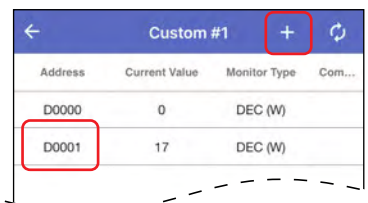
The Device Address Registration screen is displayed.



- 2 To change D0000 (default value), tap the device address, then enter the device address to register.

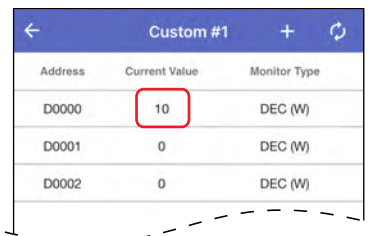


- 3 To add a device address, tap + (Add), then enter the device address to register.

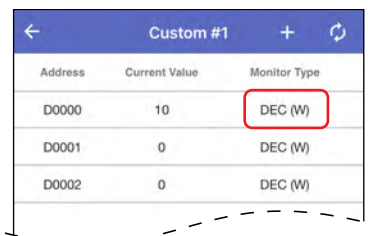


- 4 Register all device addresses to monitor.


- 5 To change the current value of a device address, tap the current value, then enter the value.

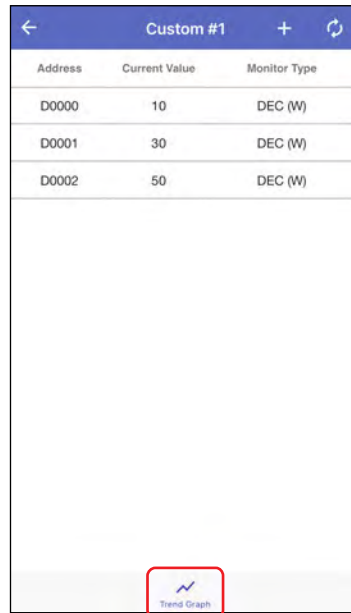


- 6 To change the monitor type of a device address, press and hold the monitor type then change the display format.

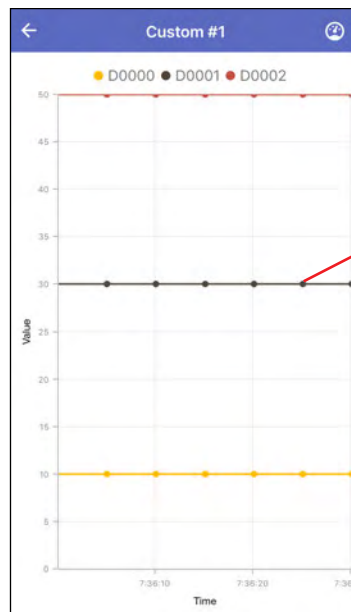



To automatically refresh the current values, tap  (Auto Refresh). The icon changes to red  when auto refresh is on.

7 To display the trend graph, tap .

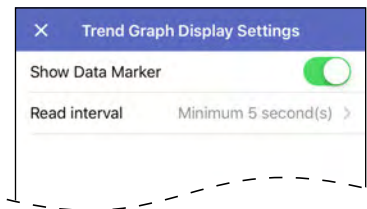


The trend graph is displayed.



8 To change the trend graph display settings, tap  (Performance Settings).

The Performance Settings screen is displayed.



■ **Show Data Marker**

Shows and hides data markers.

■ **Read interval**

Sets the interval of time (1 to 5 s) to get data from the target device.

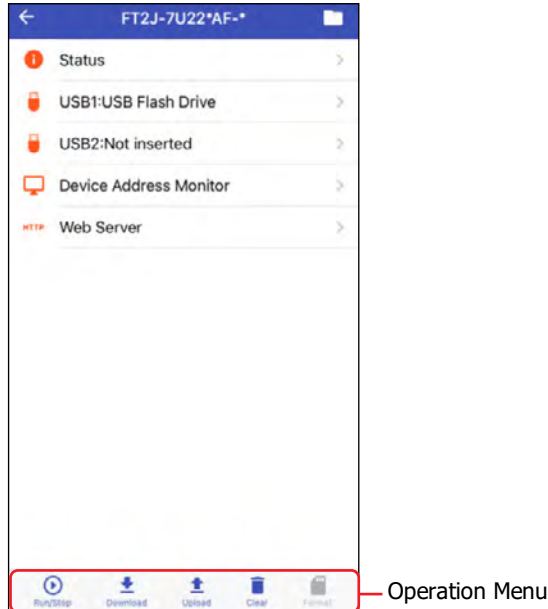
Chapter 3 How to Use during Operator Interface connection

This chapter describes how to use WindEDIT Lite when connected to an operator interface.

1 Main Screen

1.1 Main Screen

When a connection is made with the target device, the main screen is displayed.



- **Status**
Displays the status of the target device. For details, refer to “2 Displaying the Status” on page 3-3.
- **USB 1^{*1}**
Displays the USB Flash Drive screen. For details, refer to “3 Displaying and Manipulating Files and Folders” on page 3-5.
- **USB 2^{*1}**
Displays the USB Flash Drive screen. For details, refer to “3 Displaying and Manipulating Files and Folders” on page 3-5.
- **SD Card^{*2}**
Displays the SD Card screen. For details, refer to “3 Displaying and Manipulating Files and Folders” on page 3-5.
- **USB Flash Drive^{*3}**
Displays the USB Flash Drive screen. For details, refer to “3 Displaying and Manipulating Files and Folders” on page 3-5.
- **Device Address Monitor**
Displays the Device Address Monitor screen. For details, refer to “9 Device Address Monitor” on page 3-24.
- **Web Server**
Starts a browser app, access the Web server and open the web page.






*1 FT2J/1J, HG2J/1J only

*2 Only HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F

*3 Only HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P

■ Operation Menu

You can tap the icons at the bottom of the screen to operate various functions.

-  *1: Switches the ladder program between Run and Stop state. For details, refer to "4 Switching the ladder program between RUN and STOP state" on page 3-10.
-  : Writes ZNV project files (.znv) saved in a folder in WindEDIT Lite to the target device. This can also be used to write system software to a target device. For details, refer to "5 Downloading" on page 3-11.
-  : Saves a program in the Operator interface as a ZNV project file (.znv) to a folder in WindEDIT Lite. For details, refer to "6 Uploading" on page 3-16.
-  : Deletes data saved to the internal memory of the target device, or deletes data saved to the external memory device*2 inserted in the target device. For details, refer to "7 Clear" on page 3-20.
-  *3: Formats the SD memory*2 card inserted into the target device. For details, refer to "8 Formatting the External Memory" on page 3-23.

*1 FT2J/1J only

*2 SD memory card for HG5G/4G/3G/2G-V, HG4G/3G and HG2G-5F, USB flash drive for HG2G-5T and HG1G/1P

*3 Only HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P

2 Displaying the Status

Tap **Status** on the main screen to display the status of the target device.

Status	
FT2J-7U22*AF-*	
Type Number	FT2J-7U22*AF-*
System Software Version	3.0.0.12
OS Version	1.1.0
Memory Space	25296896
Project Name	project01
Modified	
Control Function	
Run/Stop Status	Running >
Scan Time (Current)	2 ms
Scan Time (Maximum)	2 ms
TIM/CNT Change Status	Unchanged >
Calendar	2001/04/06 03:43:25
Error Status	Error >

■ (Target Device)

Displays the information of the target device.

Type Number:	Displays the type number of the target device.
System Software Version:	Displays the system software version of the target device.
OS Version* ¹ :	Displays the operating system version of the target device.
Memory Space:	Displays the maximum amount of project data (bytes) that can be downloaded to the target device.
Project Name:	Displays the project name of project downloaded to the target device.
Modified:	Displays the time that project data downloaded to the target device was last saved in WindO/I-NV4.
WindO/I-NV4 Version:	Displays the version of WindO/I-NV4 used to create the project data downloaded to the target device.

■ External Memory Device Information

Displays the information of an external memory device*² inserted in the target device.

Status:	Displays the state of the external memory device.
Memory Capacity:	Displays the total capacity of the external memory device.
Used Space:	Displays how much of the capacity of the external memory device is currently in use.
Free Space:	Displays how much of the capacity of the external memory device is currently available for use.

*1 FT2J/1J, HG2J/1J only

*2 USB flash drive inserted in USB1 for FT2J/1J, HG2J/1J, SD memory card for HG5G/4G/3G/2G-V, HG4G/3G and HG2G-5F, USB flash drive for HG2G-5T and HG1G/1P

■ **Control Function** *3

Displays the information about the control function of the target device.

Run/Stop Status:	Displays the Run/Stop state of the ladder program. Tap to RUN or STOP the ladder program.
Scan Time (Current):	Displays the current value of the scan time for the ladder program in the target device.
Scan Time (Maximum):	Displays the maximum value of the scan time for the ladder program in the target device.
TIM/CNT Change Status:	Displays the status of the timer and counter preset values. Tap to display a confirmation message for the change. Confirm: Writes the changed values as a preset value of the timer and counter of the ladder program. Clear: Restores the original preset values of the ladder program.
Calendar:	Displays the internal clock data of the target device.
Error Status:	Tap to display the Control Function Error Status screen and check the errors currently occurring in the target device.

■ **Font Information** *4

Displays the installation status on the right side of each optional font and Kanji dictionary data.

*3 FT2J/1J only

*4 Only HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P

3 Displaying and Manipulating Files and Folders

3.1 Displaying Files and Folders

Tap **USB 1**, **USB 2**, **SD Card** or **USB Flash Drive** to display a list of files and folders on the external memory device*¹ inserted in the target device.

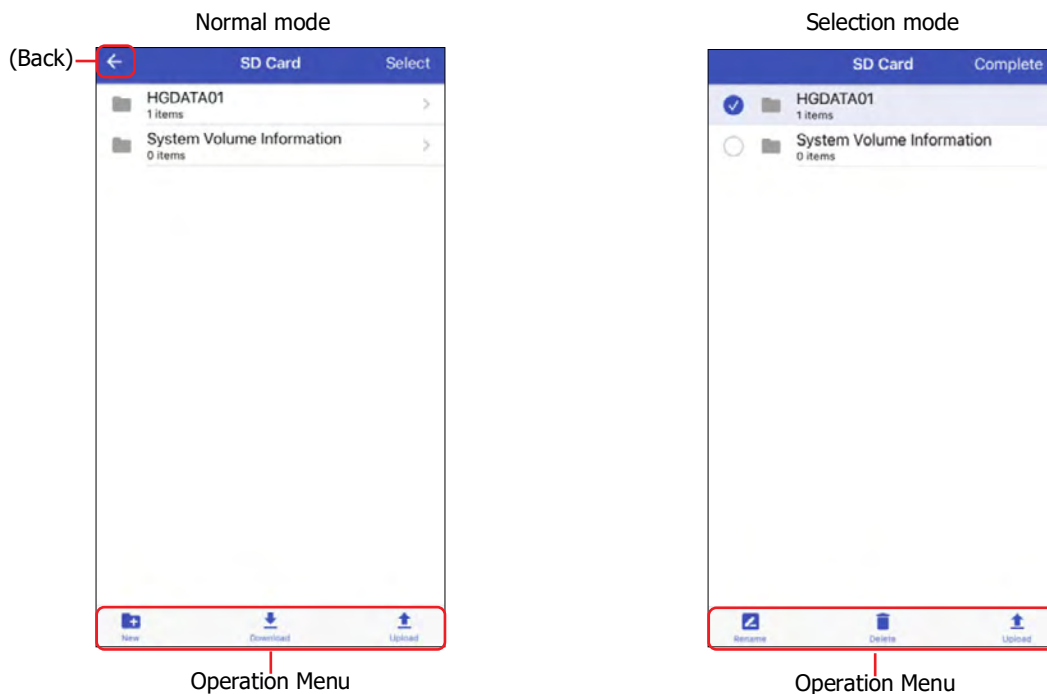
Folders can be added or deleted, and files and folders can be renamed.



Do not manipulate files or folders during a read or write operation when using the following functions.

- Recipe function
- Alarm Log function
- Data Log function
- Operation Log function.
- Sound Function
- Multimedia Function

Example) SD Card



● Normal mode

Tap a folder to navigate within the folder hierarchy (higher or lower order).

■ ←(Back)

Tap the icon on the left of the screen title to go back to the previous screen.

■ Select

Tap the text on the right of the screen title to change to the selection mode.

■ Operation Menu

Tap an icon at the bottom of the screen to perform that operation for the selected files or folders.

: Creates a new folder.

: Writes files or folders saved in WindEDIT Lite to the External Memory Device*² inserted in the PLC.

: Saves all displayed files and folders to a folder in WindEDIT Lite.

*1 Only USB flash drive for HG2G-5T, HG1G/1P

*2 Only USB flash drive for FT2J/1J, HG2J/1J, HG2G-5T, HG1G/1P

● Selection mode




Tap the target file or folder to select it.  mark is displayed next to a selected file or folder.

■ Complete

Tap the text on the right of the screen title to change to the normal mode.

■ Operation Menu

Tap an icon at the bottom of the screen to perform that operation for the selected files or folders.

-  Renames the selected file or folder.
-  Deletes the selected files or folders.
-  Saves the selected files or folders to a folder in WindEDIT Lite.

3.2 Downloading Files and Folders

Writes files or folders saved in WindEDIT Lite to the External Memory Device*¹ inserted in the target device.

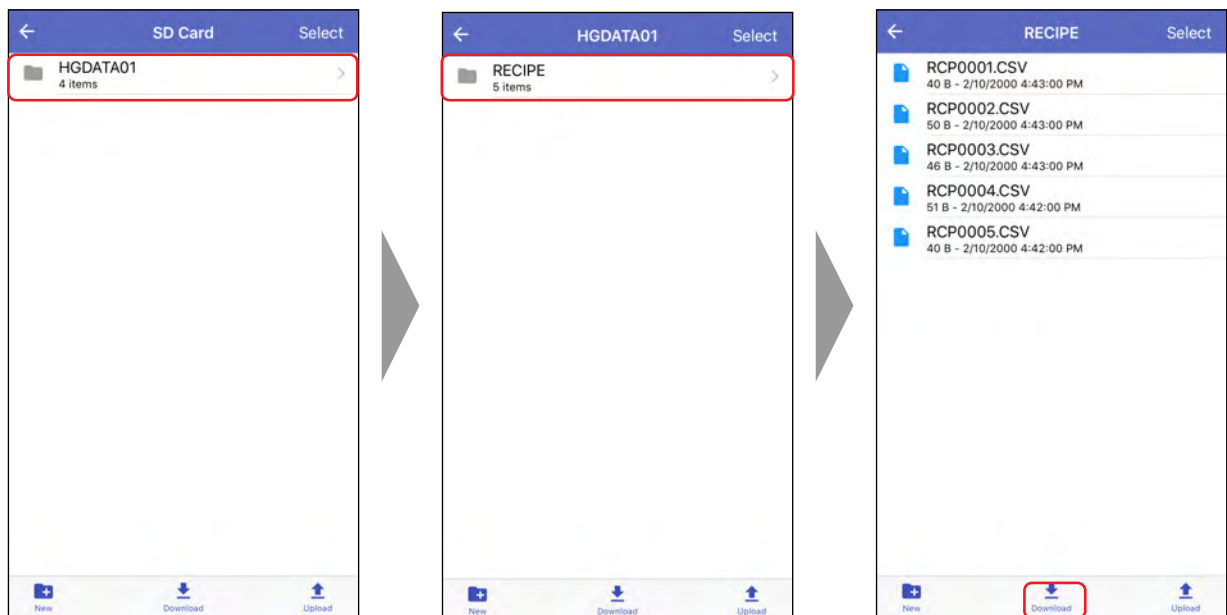


Do not download files or folders when they are being read or written by the following functions.

- Recipe function
- Alarm Log function
- Data Log function
- Operation Log function.
- Sound Function
- Multimedia Function

1 Display the download destination folder on the SD Card screen or USB Flash Drive screen, then tap  .

The App Folder Management screen is displayed.



*1 Only USB flash drive for FT2J/1J, HG2J/1J, HG2G-5T, HG1G/1P

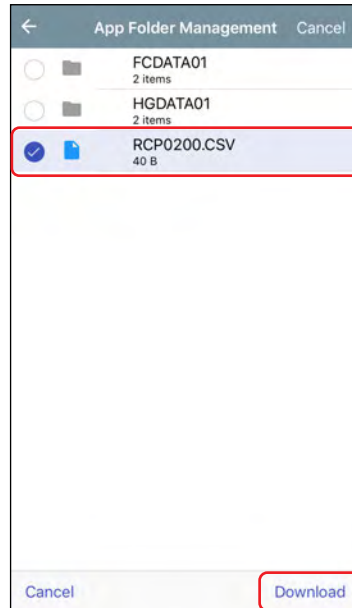
- 2 Display the files or folders to download, then tap **Select**.



- 3 Tap the files or folders to download, then tap **Download**.

The download starts.

When a file or folder with the same name exists at the download destination, an overwrite confirmation message is displayed.



- If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.
- WindEDIT Lite only allows file with alphanumeric characters and symbols used for its file name. However, the file name with the following characters cannot be downloaded to the external memory device.
 FT2J/1J, HG2J/1J: # \$ & ' ` () ~ ; \ / " * : < > ? |
 Two consecutive periods
 HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P: \ / " * : < > ? |

This completes the download of files or folders.

3.3 Uploading Files and Folders

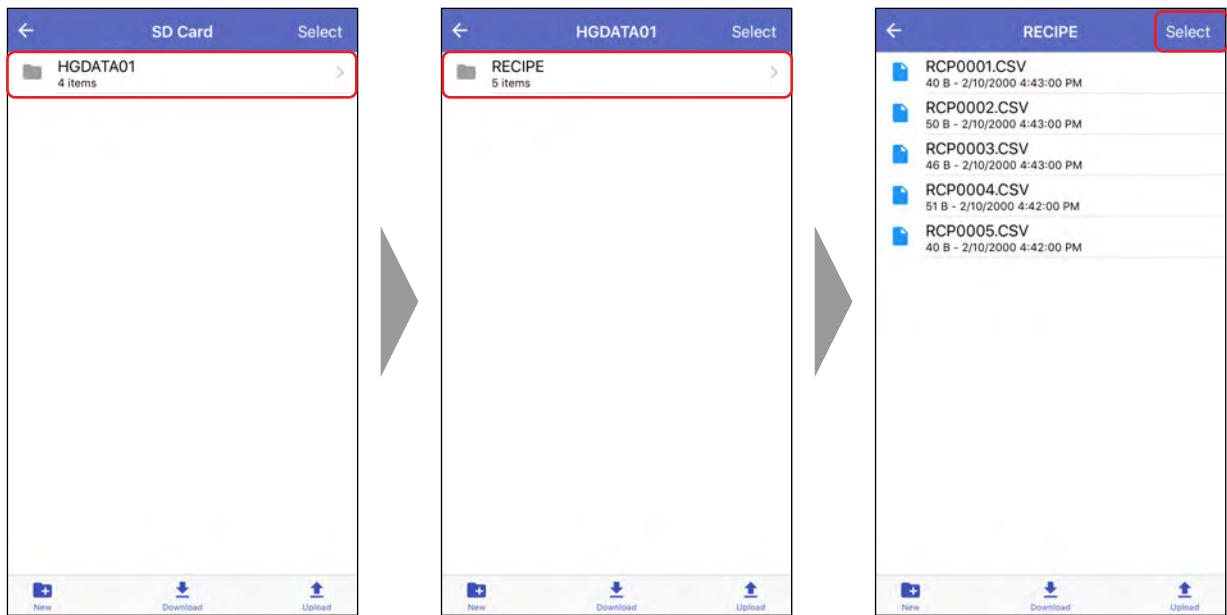
This operation saves the selected files or folders of the External Memory Device*¹ inserted in the target device to a folder in WindEDIT Lite.




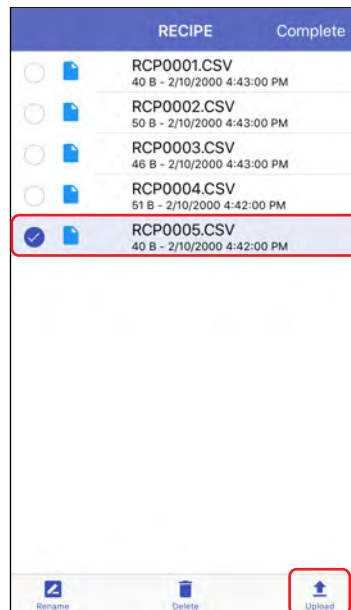
Do not upload files or folders during a read or write operation when using the following functions.

- Recipe function
- Alarm Log function
- Data Log function
- Operation Log function.
- Sound Function
- Multimedia Function

1 On the SD Card screen or USB Flash Drive screen, display the files or folders to upload, then tap **Select**.



2 Tap the files or folders to upload, then tap  .
The App Folder Management screen is displayed.

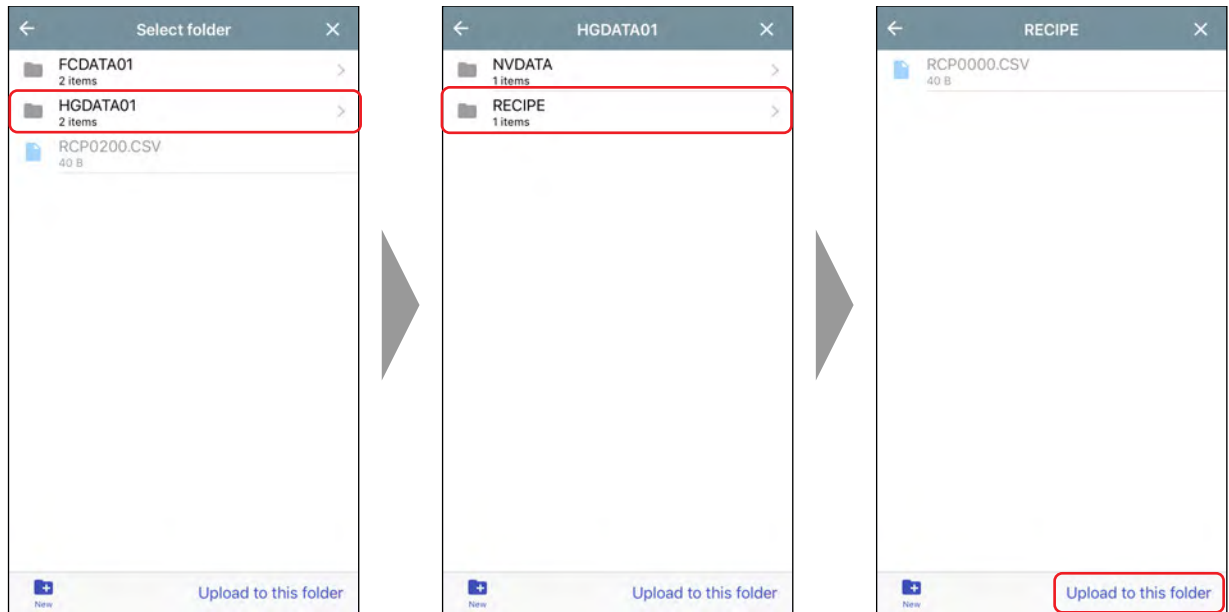


*1 Only USB flash drive for HG2G-5T, HG1G/1P

3 Display the save destination, then tap **Upload to this folder**.

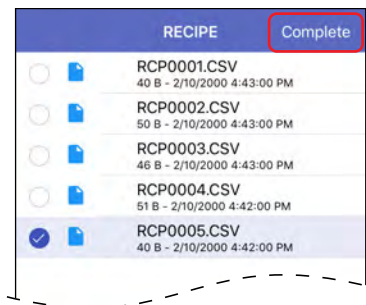
The upload starts.

When a file or folder with the same name exists at the upload destination, an overwrite confirmation message is displayed.



If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.

4 Tap **Complete**.




This completes the upload of files or folders.

4 Switching the ladder program between RUN and STOP state

4.1 Run/Stop operation

Run or stop the ladder program by operating WindEDIT Lite. *1

- 1 On the main screen operation menu, tap .

A confirmation message is displayed.

- 2 Tap **Yes**.

Example) To start ladder program operation




This completes the operation to start/stop ladder program operation.

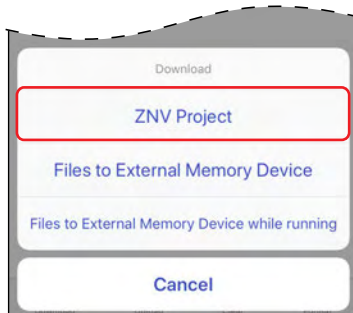
*1 FT2J/1J only

5 Downloading

5.1 Download a ZNV Project File to the Target Device

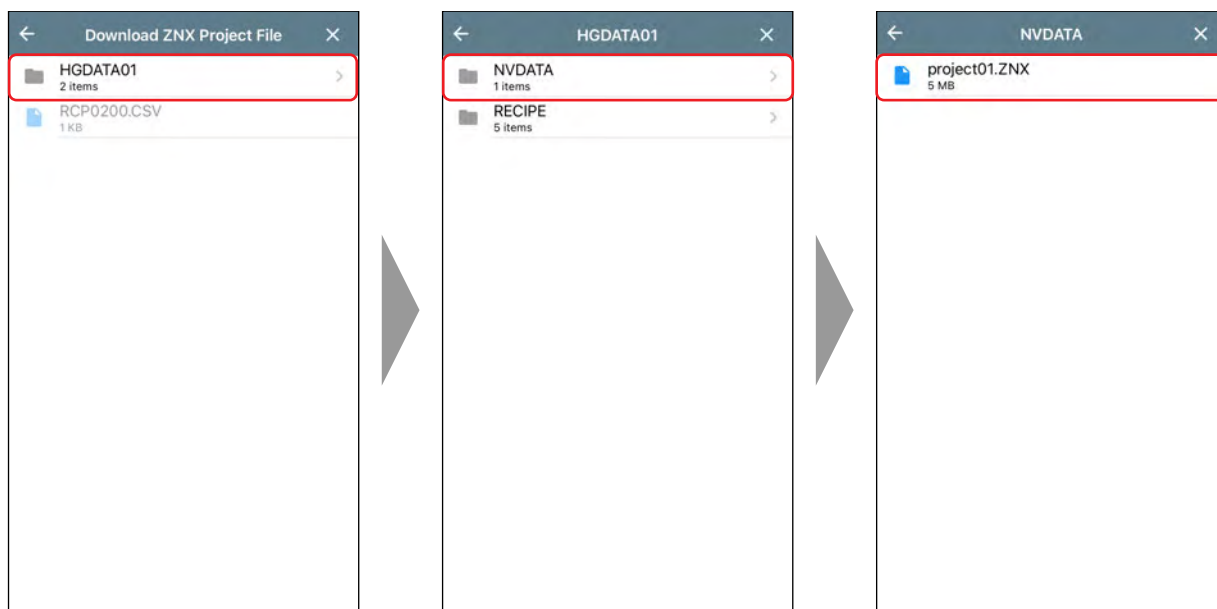
This operation downloads ZNV project files (.znv) saved in a folder in WindEDIT Lite to the target device.


- 1 On the main screen operation menu, tap , then tap **ZNV Project**.



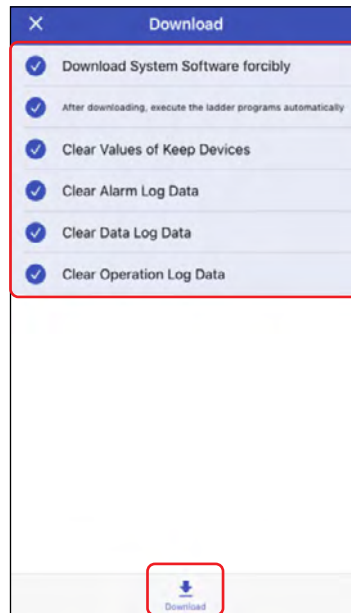
- 2 Tap a ZNV Project File (.zld).

The option when downloading is displayed.



- 3 Select the option when downloading, then tap .

The download starts.



■ **Download System Software forcibly**

Select this check box to force download system software included in the ZNV Project File when the ZNV Project File is downloaded.

■ **After downloading, execute the ladder programs automatically*¹**

Select this check box to execute the ladder programs automatically after the ZNV project file is downloaded. The value of the Special Internal Relay M8000 changes to 1 after ZNV project file is done downloading.

■ **Download Fonts and Kanji Dictionary Data*²**

Select this check box to download the fonts and dictionary data included in the ZNV Project File to MICRO/I when downloading the ZNV Project File.

■ **Clear Values of Keep Devices**

Select this check box to clear the values of Keep Devices after the ZNV Project File is downloaded.

■ **Clear Alarm Log Data**

Select this check box to clear the Alarm Log Data after the ZNV Project File is downloaded.

■ **Clear Data Log Data**

Select this check box to clear the Data Log Data after the ZNV Project File is downloaded.

■ **Clear Operation Log Data**

Select this check box to clear the Operation Log Data after the ZNV Project File is downloaded.



- When the **Download System Software forcibly** check box is selected, the **Clear Values of Keep Devices** check box, the **Clear Alarm Log Data** check box, the **Clear Data Log Data** check box, the **Clear Operation Log Data** check box are also selected.

And clear all the values of the Keep Devices and the log data when the ZNV Project File that changes settings of the data storage area is downloaded.

- If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.

This completes the download of the ZNV Project File (.znv)

*1 FT2J/1J only

*2 Only HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P

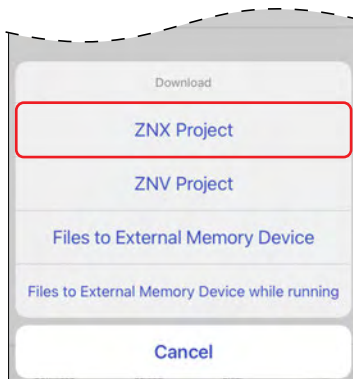


- Do not turn off the power of the target device while downloading a ZNV project file.
- In the following cases, restore power to the target device, then download the ZNV project file again.
 - A downloading of a ZNV project file failed and communication was lost.
 - During communication between WindEDIT Lite and the target device, the connecting cable becomes disconnected, the power supply is lost, or the target device stops responding

5.2 Download a ZNX Project File to the Target Device

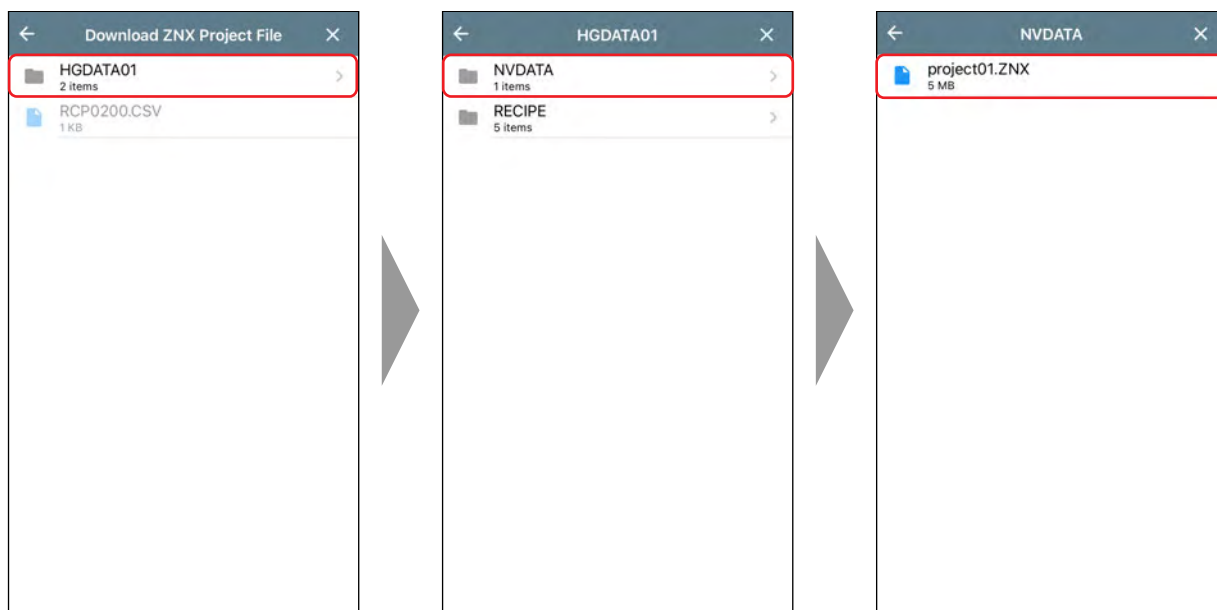
This operation downloads ZNX project files (.znx) saved in a folder in WindEDIT Lite to the target device.


- 1 On the main screen operation menu, tap , then tap **ZNX Project**.



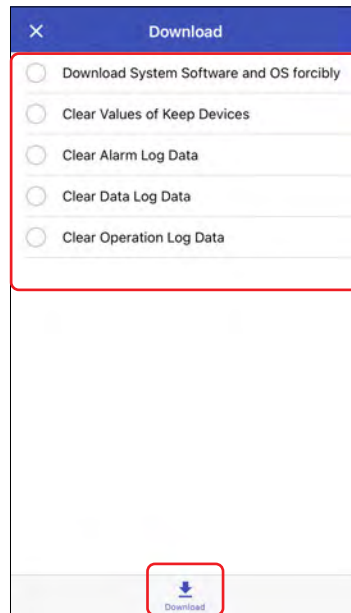
- 2 Tap a ZNX Project File (.znx).

The option when downloading is displayed.



- 3 Select the option when downloading, then tap .

The download starts.



■ **Download System Software and OS forcibly**

Select this check box to force download system software and OS included in the ZNX Project File when the ZNX Project File is downloaded.

■ **Clear Values of Keep Devices**

Select this check box to clear the values of Keep Devices after the ZNX Project File is downloaded.

■ **Clear Alarm Log Data**

Select this check box to clear the Alarm Log Data after the ZNX Project File is downloaded.

■ **Clear Data Log Data**

Select this check box to clear the Data Log Data after the ZNX Project File is downloaded.

■ **Clear Operation Log Data**

Select this check box to clear the Operation Log Data after the ZNX Project File is downloaded.



- When the **Download System Software and OS forcibly** check box is selected, the **Clear Values of Keep Devices** check box, the **Clear Alarm Log Data** check box, the **Clear Data Log Data** check box, the **Clear Operation Log Data** check box are also selected.

And clear all the values of the Keep Devices and the log data when the ZNX Project File that changes settings of the data storage area is downloaded.

- If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.

This completes the download of the ZNX Project File (.znx).

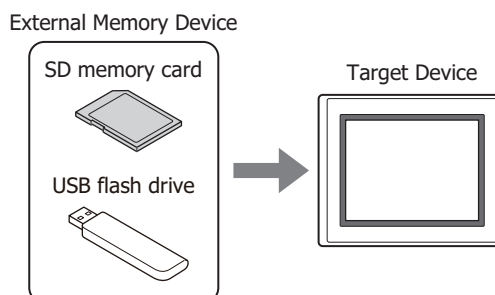



- Do not turn off the power of the target device while downloading a ZNX project file.
- In the following cases, restore power to the target device, then download the ZNX project file again.
 - A downloading of a ZNX project file failed and communication was lost.
 - During communication between WindEDIT Lite and the target device, the connecting cable becomes disconnected, the power supply is lost, or the target device stops responding

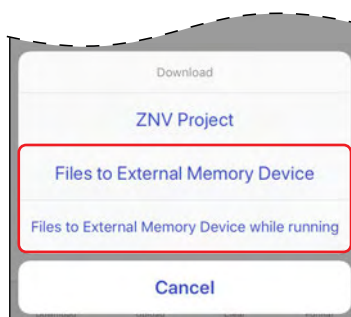
5.3 Download Files to an External Memory Device Inserted in the Target Device

Specified files can be downloaded to an external memory device*¹ inserted in the target device. The download destination is the External Memory Device folder specified in the currently running project.

- 1 Insert the external memory device into the target device.



- 2 On the main screen operation menu, tap , then select the method to download the file to the external memory device.



■ Files to External Memory Device

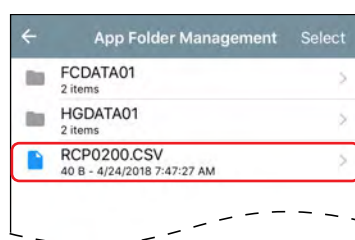
Stops operation of the target device, then downloads files to the external memory device inserted in the target device. When the file download is complete, operation resumes.

■ Files to External Memory Device while running

Downloads the file to the external memory device inserted in the target device without stopping operation of the target device.

- 3 Tap the file to download.

The download starts.



- If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.
- WindEDIT Lite only allows file with alphanumeric characters and symbols used for its file name. However, the file name with the following characters cannot be downloaded to the external memory device.
 FT2J/1J, HG2J/1J: # \$ & ' ` () ~ ; \ / " * : < > ? |
 Two consecutive periods
 HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P: \ / " * : < > ? |

This concludes downloading files.

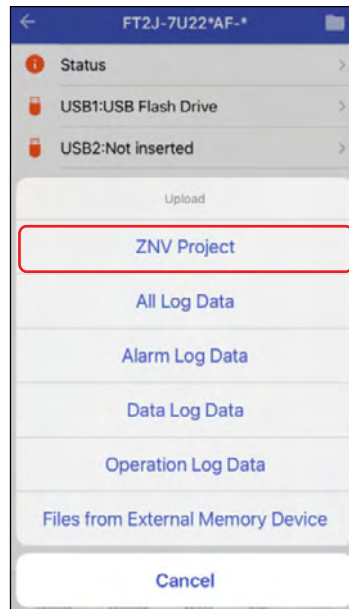
*1 USB flash drive inserted in USB1 for FT2J/1J, HG2J/1J, SD memory card for HG5G/4G/3G/2G-V, HG4G/3G and HG2G-5F, USB flash drive for HG2G-5T and HG1G/1P

6 Uploading

6.1 Upload a ZNV Project File from the Target Device

This operation reads the project being used for operation on the target device and saves it in the WindEDIT Lite folder as a ZNV project file (.znv).

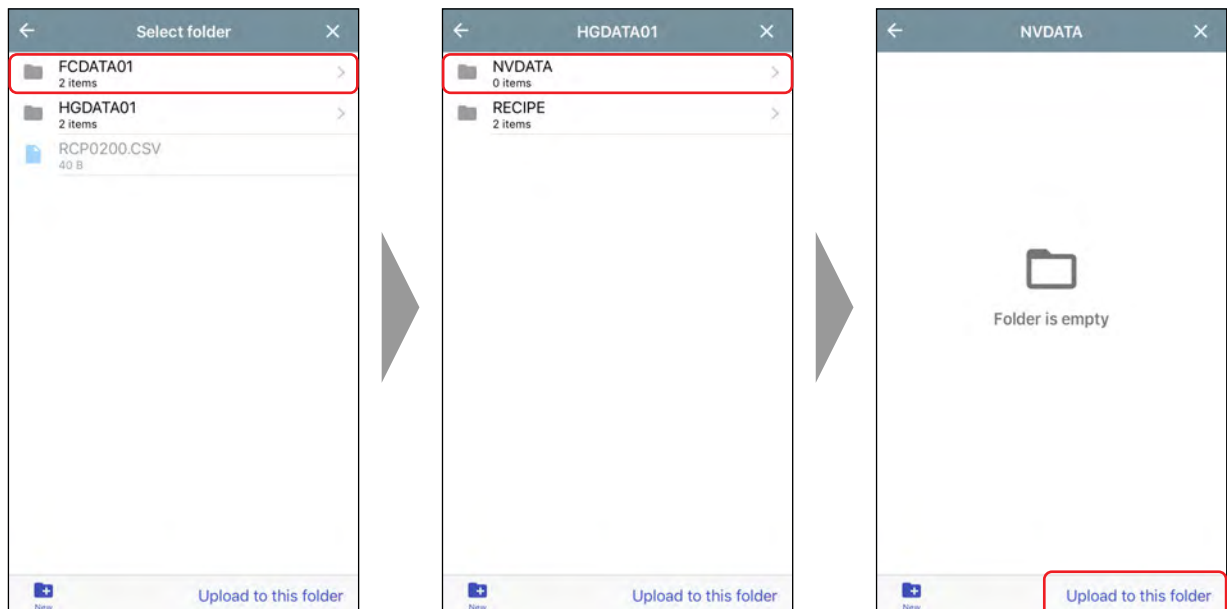
- 1 On the main screen operation menu, tap , then tap **ZNV Project**.



- 2 Display the save destination, then tap **Upload to this folder**.

The upload starts.

When a file with the same name exists at the upload destination, an overwrite confirmation message is displayed.




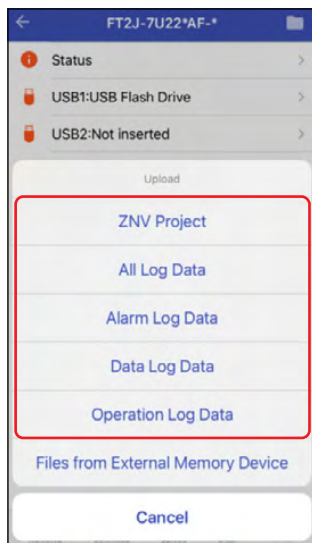
If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.

This completes the upload of the ZNV Project File (.znv).

6.2 Upload Log Data

This operation reads log data saved to the internal memory of the target device and saves it in the WindEDIT Lite folder as a CSV file.

- 1 On the main screen operation menu, tap , then tap the log data to upload.



- **All Log Data**

Uploads the Alarm Log data, the Data Log data and the Operation Log data.

- **Alarm Log Data**

Uploads the data sampled by the Alarm Log function.

- **Data Log Data**

Uploads the data sampled by the Data Log function.

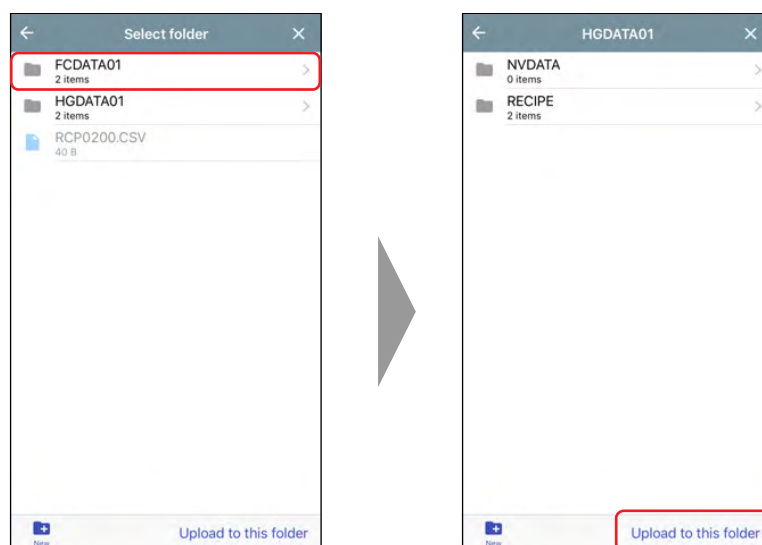
- **Operation Log Data**

Uploads the data sampled by the Operation Log function.

- 2 Display the save destination, then tap **Upload to this folder**.

The upload starts.

When a file with the same name exists at the upload destination, an overwrite confirmation message is displayed.



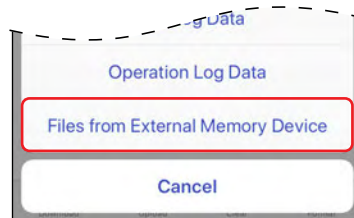
If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.


This completes uploading log data.

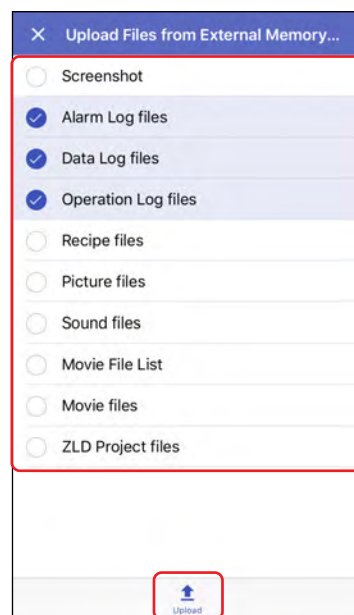
6.3 Upload Files in the External Memory Device inserted in the Target Device

This operation reads the specified files from the external memory device*¹ inserted in the target device and saves them in the WindEDIT Lite folder. The source folder for the upload is the external memory device folder specified in the running project.

- 1 On the main screen operation menu, tap , then tap **Files stored in External Memory Device**.



- 2 Tap the files to upload, then tap .



Uploadable data is as follows.

- Screenshots
- Alarm Log Files
- Data Log files
- Operation Log files
- Recipe files
- Picture files
- Sound Files*²
- Media File List*³
- Movie files*³
- ZLD Project Files

*1 SD memory card for HG5G/4G/3G/2G-V, HG4G/3G and HG2G-5F, USB flash drive for HG2G-5T, HG1G/1P

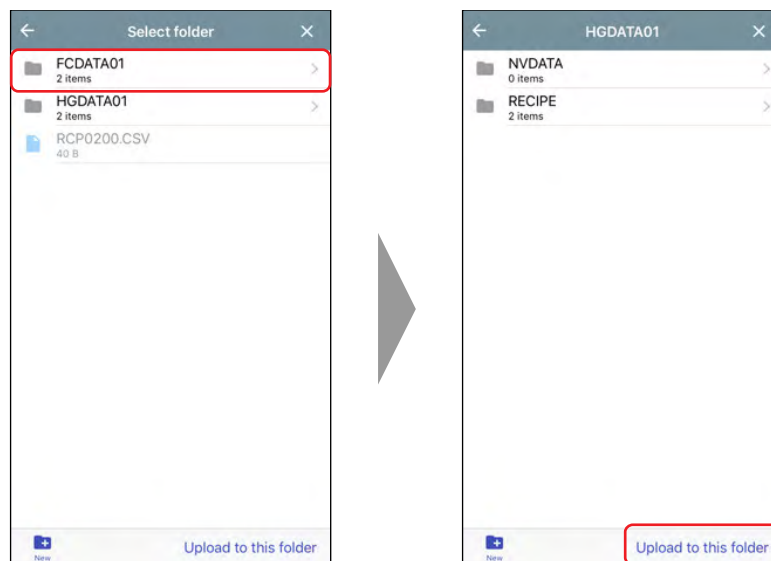
*2 HG5G/4G/3G-V and HG4G/3G only

*3 This is applicable for models with a video interface only.

- 3 Display the save destination, then tap **Upload to this folder**.

The upload starts.

When a file with the same name exists at the upload destination, an overwrite confirmation message is displayed.




If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.

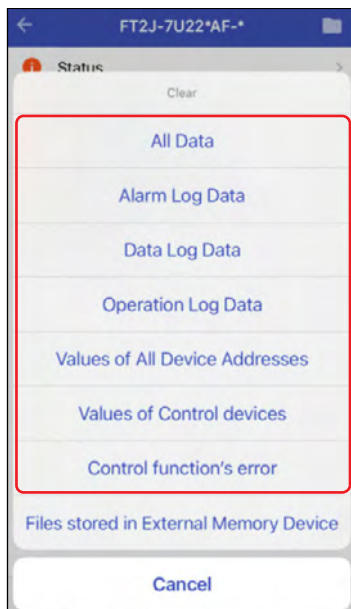
This completes uploading files.

7 Clear

7.1 Clear Data from the Target Device

Deletes data from the internal memory of the target device.

- 1 On the main screen operation menu, tap , then tap the data to delete.
A confirmation message is displayed.



- **All Data**
Deletes project data, Alarm Log data, Data Log data, and Operation Log data. It also clears the values from all device addresses.
- **Alarm Log Data**
Deletes the data collected by the Alarm Log function.
- **Data Log Data**
Deletes the data collected by the Data Log function.
- **Operation Log Data**
Deletes the data collected by the Operation Log function.
- **Values of All Device Addresses**
Clears the values of all device addresses.
- **Clear Values of Control Device^{*1}**
Clears the values of the control device stored in the internal memory of the target device.
- **Clear Errors of Control Function^{*1}**
Clears the error information of the control function stored in the internal memory of the target device.



If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.

*1 FT2J/1J only

2 Tap Clear.

The progress is displayed, and the data starts being deleted.



This completes clearing data.

7.2 Clear Data from the External Memory Device inserted in the Target Device

After stopping operation of the target device, the data saved in the External Memory Device*¹ folder of the external memory device inserted in the target device can be deleted.

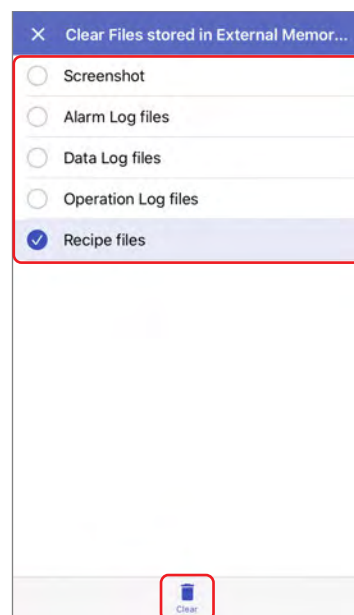
- 1 On the main screen operation menu, tap , then tap **Files stored in External Memory Device**.



- 2 Tap the data to delete from the external memory device, then tap .

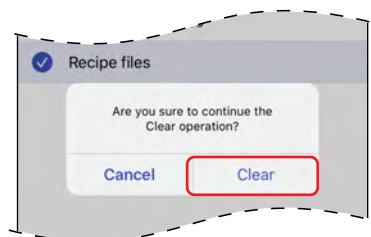
Screenshot, Alarm Log files, Data Log files, Operation Log files, and Recipe files

A confirmation message is displayed.



- 3 Tap **Clear**.

The progress is displayed, and the files on the external memory device starts getting deleted.



If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.

This completes clearing files in the external memory device.

*1 SD memory card for HG5G/4G/3G/2G-V, HG4G/3G and HG2G-5F, USB flash drive for HG2G-5T, HG1G/1P

8 Formatting the External Memory

Stops operation of the target device and formats an external memory device*¹ inserted in the target device.

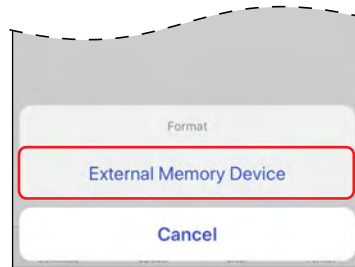


The external memory device format function is only supported by the HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P.

- 1 On the main screen operation menu, tap , then tap **External Memory Device**.



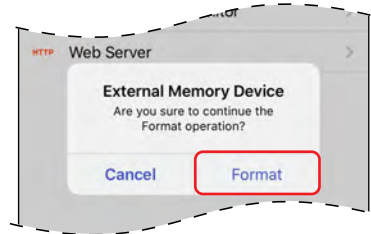
If the project of the target device is password protected, **Check User Name and Password** dialog is displayed. Enter the user name and password.



A confirmation message is displayed.

- 2 Tap **Format**.

The format is executed.



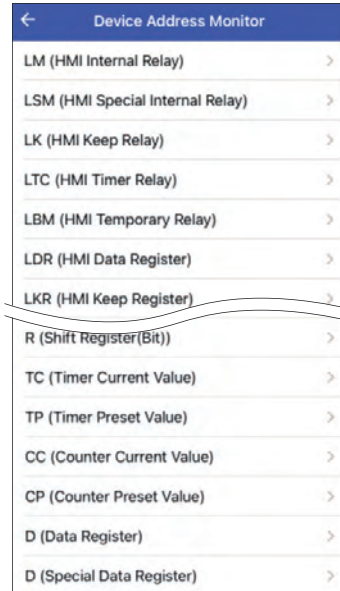
This completes formatting the external memory device

*1 SD memory card for HG5G/4G/3G/2G-V, HG4G/3G and HG2G-5F, USB flash drive for HG2G-5T, HG1G/1P

9 Device Address Monitor

9.1 Device Address Monitor Screen

Tap Device Address Monitor on the main screen to display the Device Address Monitor screen. Values for device addresses during operation can be monitored or changed.



The screenshot shows the 'Device Address Monitor' screen with a list of device addresses and their values. The list is as follows:

Device Address	Value
LM (HMI Internal Relay)	0
LSM (HMI Special Internal Relay)	0
LK (HMI Keep Relay)	0
LTC (HMI Timer Relay)	0
LBM (HMI Temporary Relay)	0
LDR (HMI Data Register)	0
LKR (HMI Keep Register)	0
R (Shift Register(Bit))	0
TC (Timer Current Value)	0
TP (Timer Preset Value)	0
CC (Counter Current Value)	0
CP (Counter Preset Value)	0
D (Data Register)	0
D (Special Data Register)	0

● Supported Device Address

The ranges of device addresses that can be written and read are as follows.

■ Bit Devices

HMI Devices

Internal Device Name	Symbol	R/W	Address Number Range		Base
			FT2J/1J, HG2J/1J	HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P	
HMI Internal Relay	LM	R/W	0 to 4095	0 to 2047	10
HMI Keep Relay	LK	R/W	Variable		10
HMI Timer Contact	LTC	R	0 to 31		10
Digital Input (Bit) ^{*1}	LEX	R	0 to 77		8
Digital Output (Bit) ^{*1}	LEY	R/W	0 to 77		8
HMI Temporary Relay	LBM	R/W	0 to 255	0 to 127	10
HMI Expansion Input (Bit) ^{*2}	LI	R	0 to D		16
HMI Expansion Output (Bit) ^{*2}	LQ	R/W	0 to 1		16
HMI Special Internal Relay	LSM	R/W	0 to 127	0 to 95	10

Control Devices

Internal Device Name	Symbol	R/W	Address Number Range			Base
			FT2J	FT1J	HG5G/4G/3G/2G-V	
Input (Bit)	I	R	0 to 15, 20 to 27 ^{*3}	0 to 5, 12, 13, 20 to 27 ^{*3}	-	8
Output (Bit)	Q	R/W	0 to 7, 10 to 17 ^{*3}	0 to 3, 10 to 17 ^{*3}	-	8
Shift Register (Bit)	R	R/W	0 to 127		-	10
Internal Relay (Bit)	M	R/W	0 to 7997		-	10 ^{*4}
Special Internal Relay (Bit)	M	R/W	8000 to 8177		-	10 ^{*4}
Expansion Input (Bit)	#I	R	-	-	30 to 107	10 ^{*4}
Expansion Output (Bit)	#Q	R/W	-	-	30 to 127	10 ^{*4}
Internal Relay (Bit)	#M	R/W	-	-	0 to 797	10 ^{*4}



R/W is an abbreviation of Read/Write. R/W indicate that both reading and writing are possible, while R indicates that only reading is possible.

*1 HG4G/3G, HG2G-5F only

*2 HG1P only

*3 Only when using an I/O cartridge

*4 The last digit of the address number is 0 to 7 in octal notation.

■ Word Devices

HMI Devices

Internal Device Name	Symbol	R/W	Address Number Range		Base
			FT2J/1J, HG2J/1J	HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P	
HMI Data Register	LDR	R/W	0 to 16383	0 to 8191	10
HMI Keep Register	LKR	R/W	Variable		10
HMI Timer Current Value	LTD	R	0 to 31		10
Digital Input (Word) ^{*1}	WLEX	R	0, 20, 40, 60		10
Digital Output (Word) ^{*1}	WLEY	R/W	0, 20, 40, 60		10
HMI Temporary Register	LBR	R/W	0 to 255	0 to 127	10
HMI Link Register ^{*2}	LLR	R/W	0 to 63		10
HMI Expansion Input (Word) ^{*3}	WLI	R	0		16
HMI Expansion Output (Word) ^{*3}	WLQ	R/W	0		16
HMI Special Data Register	LSD	R/W	0 to 511	0 to 383	10

Control Devices

Internal Device Name	Symbol	R/W	Address Number Range		Base
			FT2J/1J	HG5G/4G/3G/2G-V	
Timer Preset Value	TP	R/W	0 to 199	-	10
Timer Count Value	TC	R	0 to 199	-	10
Counter Preset Value	CP	R/W	0 to 199	-	10
Counter Count Value	CC	R	0 to 199	-	10
Data Register	D	R/W	0 to 3999	-	10
Special Data Register	D	R/W	8000 to 8199	-	10
Expansion Input (Word)	#WI	R	-	30, 50, 70, 90	10
Expansion Output (Word)	#WQ	R/W	-	30, 50, 70, 90, 110	10
Internal Relay (Word)	#WM	R/W	-	0 to 780 ^{*4}	10
Data Register	#D	R/W	-	0 to 2999	10



R/W is an abbreviation of Read/Write. R/W indicate that both reading and writing are possible, while R indicates that only reading is possible.

*1 HG4G/3G, HG2G-5F only

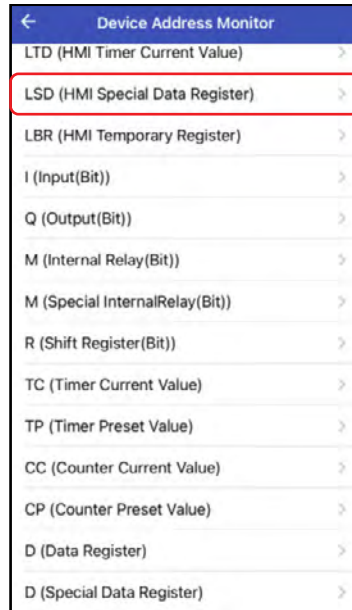
*2 HG5G/4G/3G/2G-V, HG4G/3G, HG2G-5F/-5T, HG1G/1P only

*3 HG1P only

*4 Multiples of 20 only

9.2 Monitoring Device Addresses

- 1 Tap the device type to monitor device addresses for.
The Device Address Details screen is displayed.



- 2 Tap  (Top Device Address).

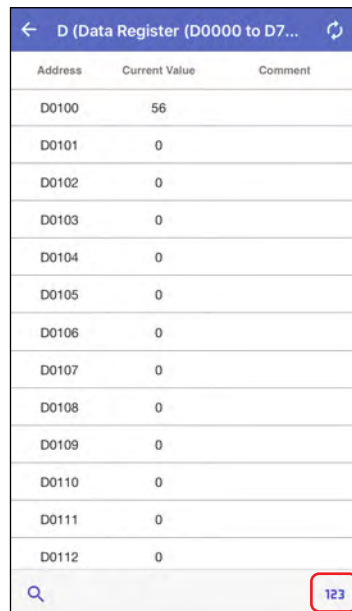
The screenshot shows the 'D (Data Register (D0000 to D7...))' screen with a refresh icon. It displays a table of data registers with their addresses, current values, and comments. A magnifying glass icon is highlighted with a red box at the bottom left.

Address	Current Value	Comment
D0000	12337	
D0001	12851	
D0002	255	
D0003	37	
D0004	14393	
D0005	5	
D0006	17220	
D0007	17734	
D0008	18248	
D0009	18768	
D0010	58241	
D0011	33280	
D0012	0	

- 3 Input the top device address number for the displayed device address, then tap **Show**.



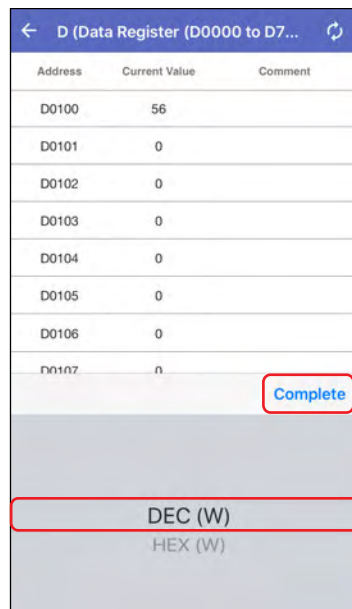
- 4 Tap **123** (Display Format).



Address	Current Value	Comment
D0100	56	
D0101	0	
D0102	0	
D0103	0	
D0104	0	
D0105	0	
D0106	0	
D0107	0	
D0108	0	
D0109	0	
D0110	0	
D0111	0	
D0112	0	

123

- 5 Change the display format for the current value of the device address, then tap **Complete**.

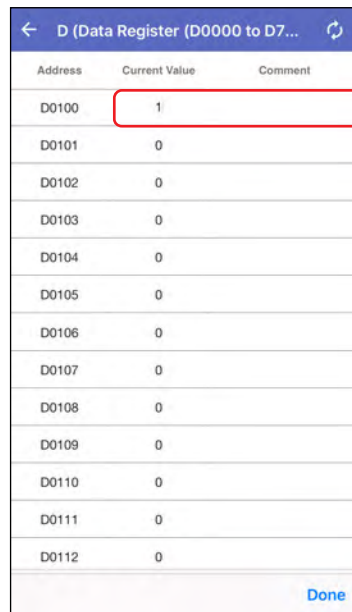


Address	Current Value	Comment
D0100	56	
D0101	0	
D0102	0	
D0103	0	
D0104	0	
D0105	0	
D0106	0	
D0107	0	

Complete

DEC (W)
HEX (W)

- 6 Tap the current value of the device address, then change the value.



Address	Current Value	Comment
D0100	1	
D0101	0	
D0102	0	
D0103	0	
D0104	0	
D0105	0	
D0106	0	
D0107	0	
D0108	0	
D0109	0	
D0110	0	
D0111	0	
D0112	0	



You cannot monitor an Operator interface with WindEDIT Lite when it is also being monitored over a USB connection with a computer.

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