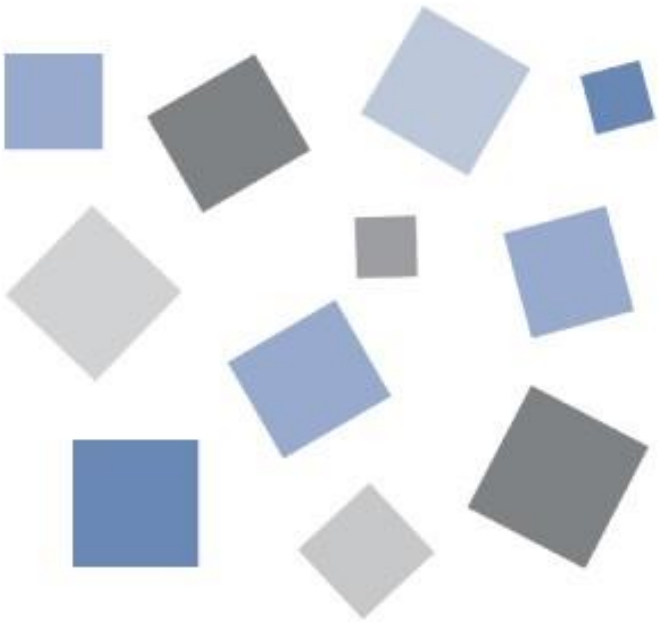
G-REMOTE

Remote Control Service

USER' S Manual

MANUAL No. G-REMOTE-UM-151-03

G-REMOTE



GRAPHTEC

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1. Introduction

Thank you for choosing a Graphtec product.
This s a cloud service that can be used by customers who have purchased a GL series data logger.
You can use the G-REMOTE function to remotely control the GL series connected to the Internet.

1.1 Precautions for use

① No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, without the prior written permission of Graphtec Corporation.

② The product specifications and other information in this manual are subject to change without notice.

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1.2 About registered trademarks

- Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.
- All names of companies, brands, logotypes, and products appearing in this manual are the trademarks or registered trademarks of their respective companies.

1.3 About copyright

This instruction manual is copyrighted by Graphtec Corporation.

2. Preparation

2.1 Target model

Please note that the applicable models for each service are different for G-REMOTE and G-DRIVE.

G-REMOTE applicable models

- GL260

*Optional B-568 is required for wireless LAN connection.
*The number of devices that can be connected depends on the number of simultaneous accesses in your contract.

G-DRIVE applicable models

- GL260 (wireless LAN)
- GL240 (wireless LAN)
- GL840 (wired LAN /wireless LAN)
- GL980 (wired LAN)
- GL2000 (wired LAN)
- GL7000 (wired LAN)
- GLT400 (wired LAN /wireless LAN)

*Optional B-568 is required for wireless LAN connection.
*The number of devices that can be connected depends on the number of simultaneous accesses in your contract.

2.2 Operating environment

Please use this service under the following environment.

Item	Environment
PC	OS and PC equipped with a web browser
Compatible browser	Google Chrome (recommended), Microsoft Edge, Firefox, Safari *Internet browser that supports HTML5
Internet connection	To use G-REMOTE and G-DRIVE, you need an environment where you can connect to the Internet. *Customers are responsible for preparing the equipment and equipment required to connect to the Internet.

Note
- G-REMOTE will not work properly if you access it from multiple browsers or PCs.

3. Service details

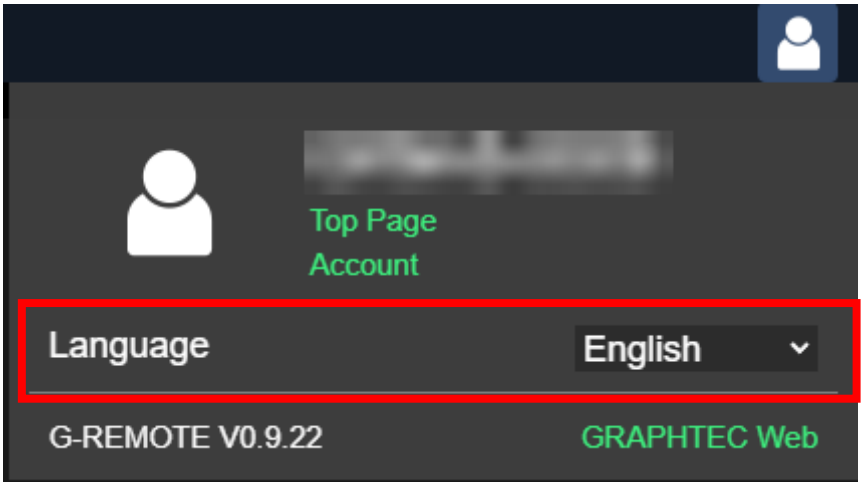
3.1 G-REMOTE screen

This is a service for remotely controlling GL devices.
For information on how to register devices, please refer to "Chapter 4 Service Details" in the installation manual.

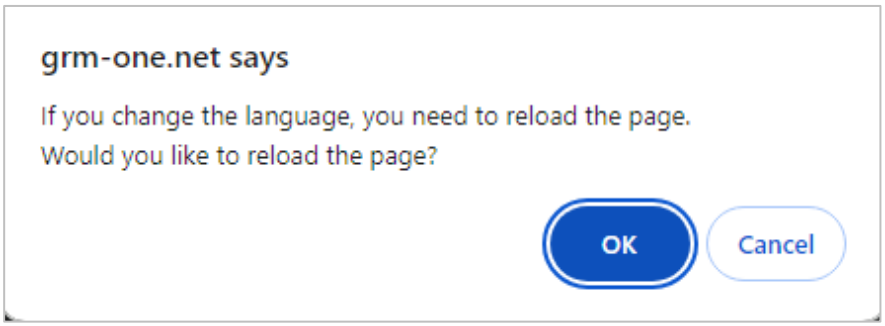
When you access G-REMOTE for the first time, it will be displayed in English.
Follow the steps below to switch languages if necessary.
(Chinese/English/French/German/Japanese/Korea/Spanish)

1. Click the "Account" button in the red frame from the G-REMOTE top menu.

2. Change the language from "Language" in the account menu.



3. A confirmation message will appear; select OK.
   Automatically reloads the page when switching languages.



4. The language setting will apply.

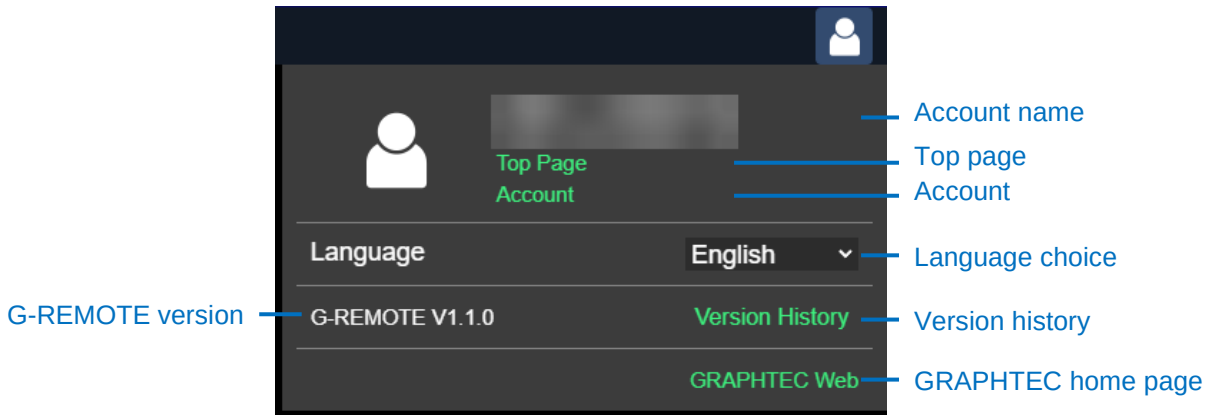
Note

・G-REMOTE and our applications (GL-Connection, APS, etc.) cannot be used at the same time.

・Depending on your browser, a pop-up message saying "Do not display the confirmation dialog repeatedly" may be displayed.
If you check "Do not display confirmation dialog repeatedly", it may not work properly.

Top menu

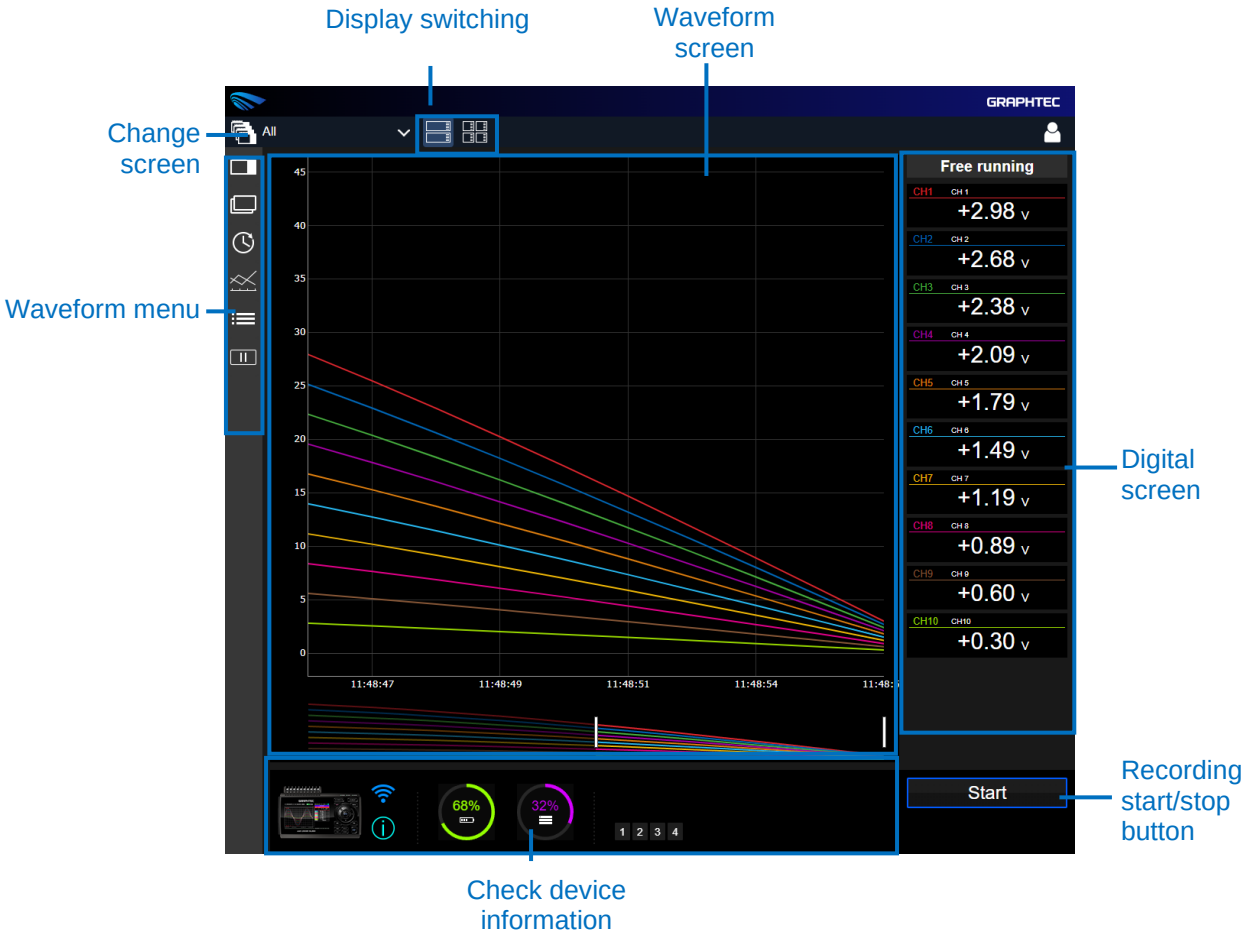
This menu is common to all pages.



Item	Description
Account name	Your account name
Top page	Move to the top page.
Account	Go to your account settings page. *If you change the registered device using remote settings, please reload the G-REMOTE page.
Language choice	Change the language displayed on G-REMOTE. Reloads the page when changes are made.
GRAPHTEC home page	Go to the GRAPHTEC homepage.
G-REMOTE version	Your G-REMOTE version
Version history	Check G-REMOTE version history.

3.2 All models Display screen for all models

Displays the waveform of the connected GL device on one page.
Displayed when there are two or more registered devices.

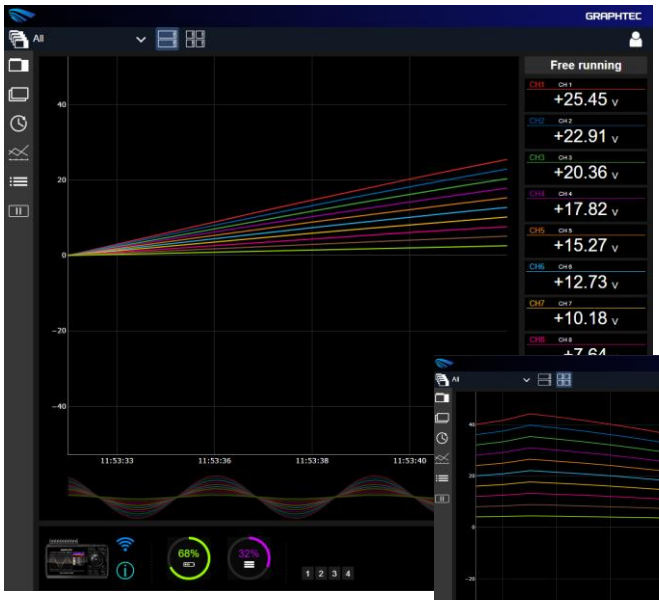


Item	Description
Change screen	You can move to each model's screen, CSV replay screen, etc.
Display switching	You can change whether to split the waveform screen and display it. Normal display/2-split display
Waveform screen	You can check the waveform. The waveform update interval is the same as the update interval set in the waveform menu.
Digital screen	You can check the digital value. The update interval is the same as the update interval set in the waveform menu.
Waveform menu	This is a menu related to waveform operations. You can check the content by hovering over it with your mouse cursor.
Check device information	You can check information about the device.
Recording start/stop button	Recording start/stop can be controlled. *Not recorded on the PC side.

Display switching

You can change whether the waveform screen is divided and displayed.

Normal display

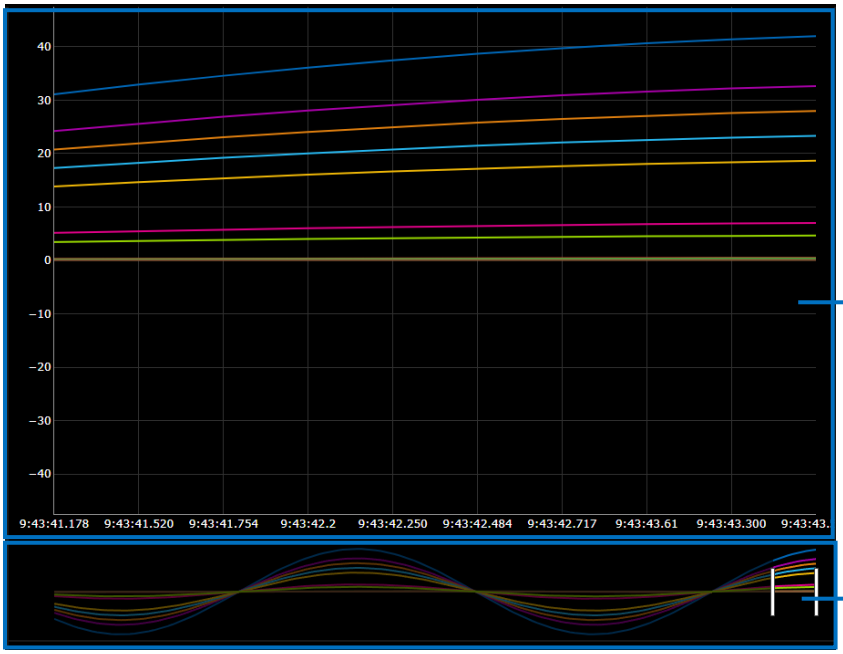


2-split display

Item	Description
Normal display	Display to fill the entire width of the screen
2-split display	Displays by dividing the width of the screen into two.

Waveform screen

Display the waveform.
The waveform update interval is the same as the update interval set in the waveform menu.



Item	Description
Waveform screen	Display the waveform. If the number of displayed points is exceeded, the waveform will scroll. The number of displayed points can be changed from the waveform menu.
Waveform highlight display	Displays the entire waveform. Waveforms can be displayed backwards by switching "Scroll On/Off" in the waveform menu. The maximum number of waveform highlights varies depending on the number of connected devices. example When the number of connected devices is 1: Maximum 5000 points. When the number of connected devices is 2: Maximum 2500 points. When the number of connected devices is 5: Maximum 1000 points. If the number of connected devices is 10: Maximum 500 points

Waveform screen operation

The following operations are only possible when "Screen Scroll On/Off" in the waveform menu is Off.

● Waveform scaling

Scale the waveform by moving the mouse wheel over the waveform.

● Display range change

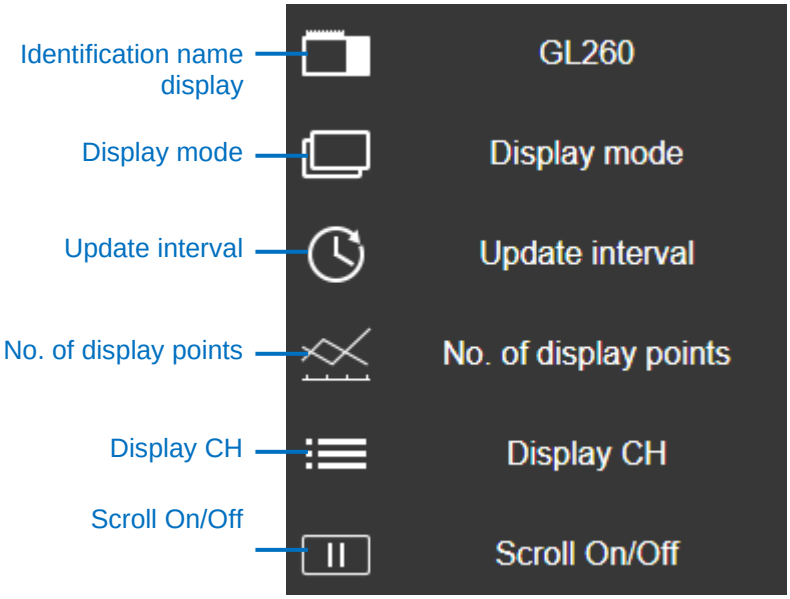
Change the display range by selecting "zoom" at the top right of the waveform and dragging the mouse.

● Display range movement

Move the position by selecting " pan " at the top right of the waveform and dragging the mouse.

Waveform menu

Check the model name and change the waveform settings.



Item	Description
Identification name display	You can check the distinguished name.
Display mode	Switch between waveform display and enlarged digital display.
Update interval	You can change the update interval. Refresh time/ 1,2,5,10,20,30 seconds/1 minute
No. of display points	Change the number of points displayed on the waveform screen. The waveform scrolls when you change the number of displayed points. *When screen scrolling is on 10,20,50,100 points
Display CH	Change the CH to display. Analog (every 10CH), logic, pulse, calculation (every 10CH)
Scroll On/Off	Change the settings for automatically scrolling the waveform screen. By stopping screen scrolling, you can go back and check the waveform.

Attention

Update interval may increase communication traffic.

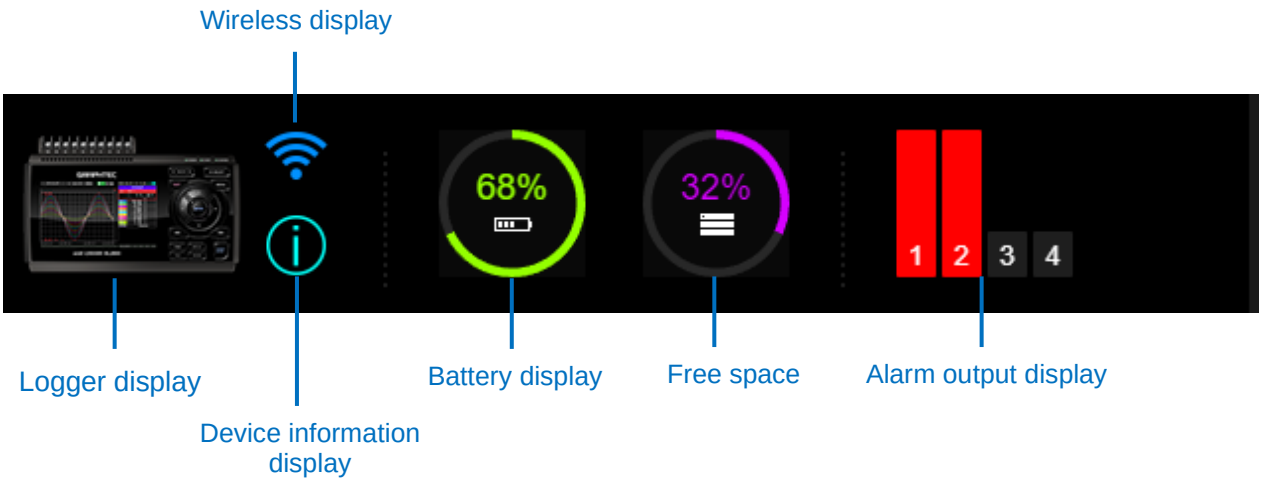
Digital value display

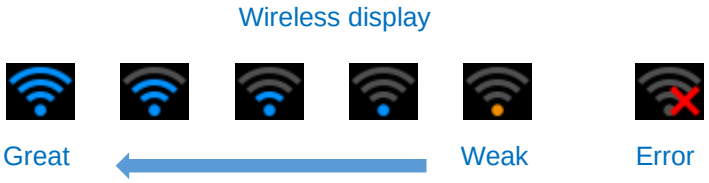
You can check the digital value.

Item	Description
Status display	Displays the main unit status during free running and recording.
Digital value display	Displays the digital value of each CH. The displayed CH can be changed from "Change display CH" in the waveform menu.
Recording start/stop button	Start/stop recording. *Recording will not start if the recording start conditions are incorrect. Please check the setting. Example: The trigger condition is incorrect, the recording destination media is full, etc.

Check device information

Check information about your device.

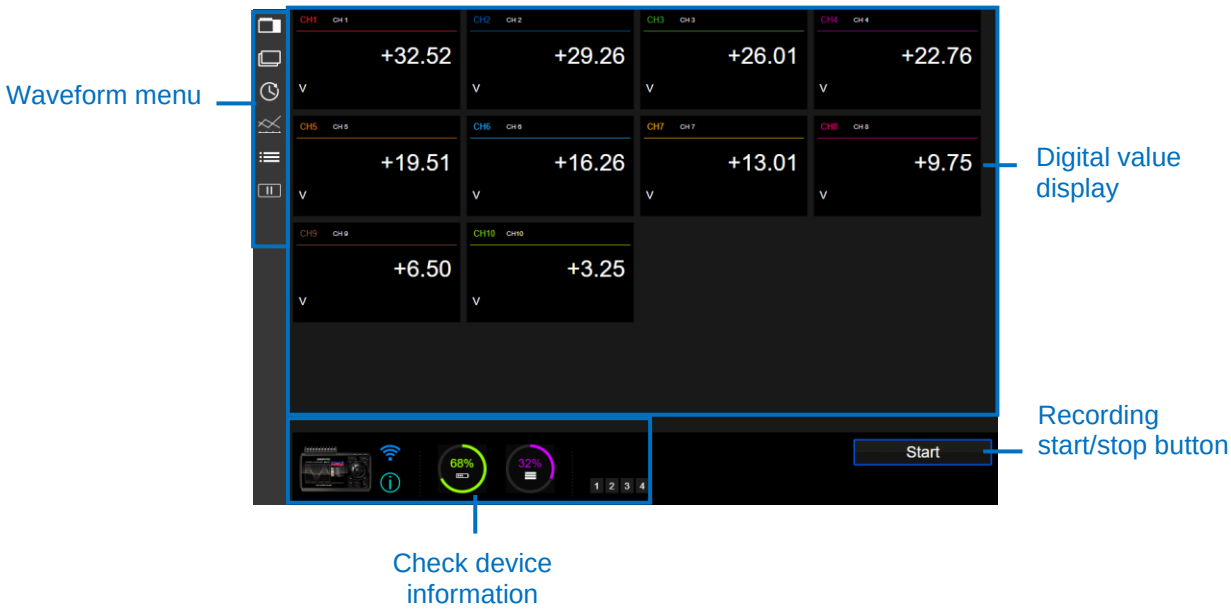




Item	Description
Logger display	Displays the model.
Wireless display	Displays the wireless signal strength.
Device information display	Displays information about equipment and recording.
Battery display	Show battery. *Not displayed when connected to AC.
Free space	Displays free space. *Updated every few minutes.
Alarm output display	Displays alarm output.

Enlarged digital value display

You can check the enlarged digital value.

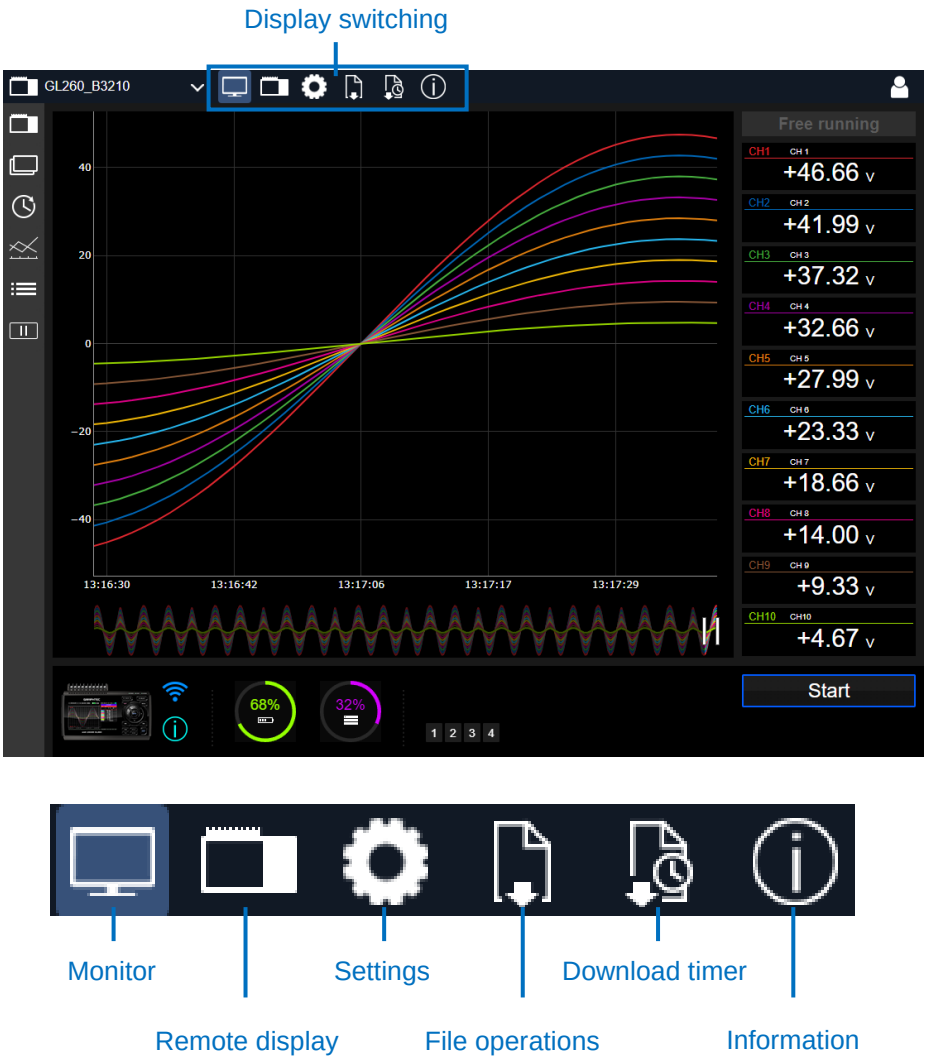


Item	explanation
Waveform menu	This is a menu related to waveform operations. You can check the content by hovering over it with your mouse cursor.
Digital value display	Displays enlarged digital values. *The number of channels displayed in one line changes depending on the screen size.
Check device information	You can check information about the device.
Recording start/stop button	Recording start/stop can be controlled. *Not recorded on the PC side.

3.3 Logger display screen

This is the screen for each model.
You can view waveforms, change settings, operate files on the main unit's media, and view information.

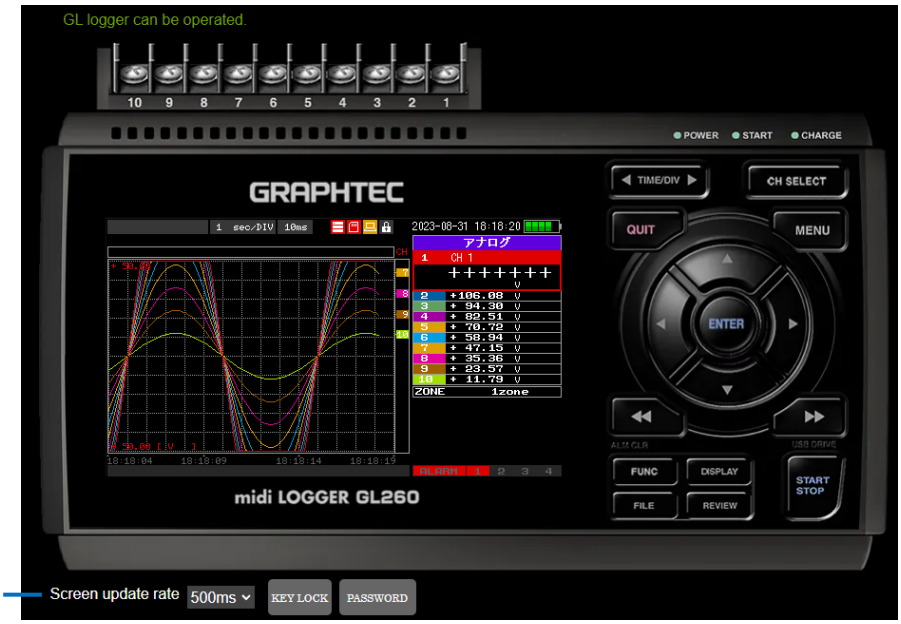
Waveform screen



Item	explanation
Display switching	Move to various screens.
Monitor	Display the waveform screen.
Remote display	Show remote display screen.
Settings	Display the settings screen.
File operations	Displays the file operation screen.
Download timer	Displays the download timer screen.
Information	Display the information screen.

Remote display

You can check and operate the GL device screen remotely.
You can operate the main unit remotely by clicking the keys on the right side of the screen.
Please refer to the main unit manual for details.



Screen update rate

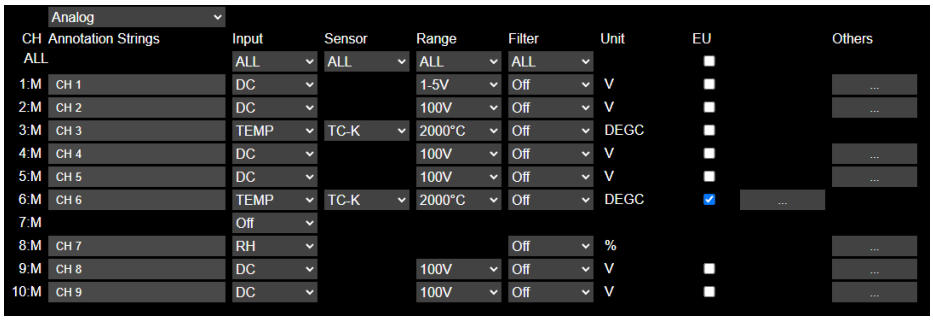
Item	explanation
Screen update rate	Change the screen update rate. 500ms/ 1/3/5 seconds

Note
Depending on the update speed, communication traffic may increase if displayed for a long time.

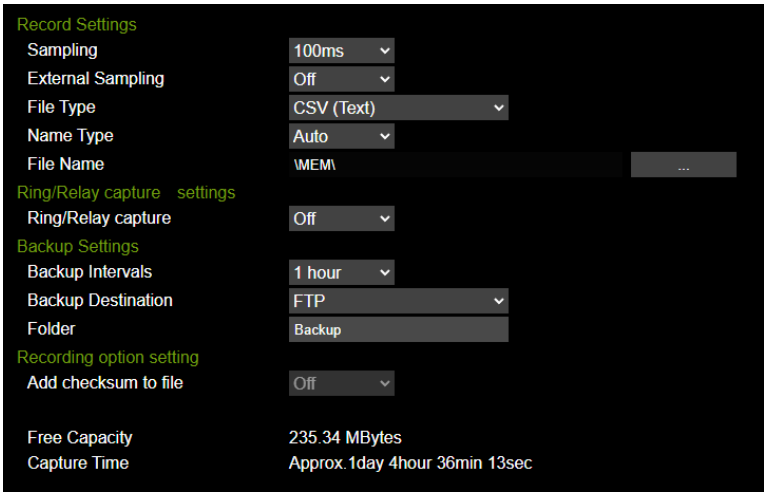
Settings screen

You can view and change device settings.
For each setting Item, please refer to the main unit manual of the GL device.
*Settings cannot be changed while recording is in progress.

AMP

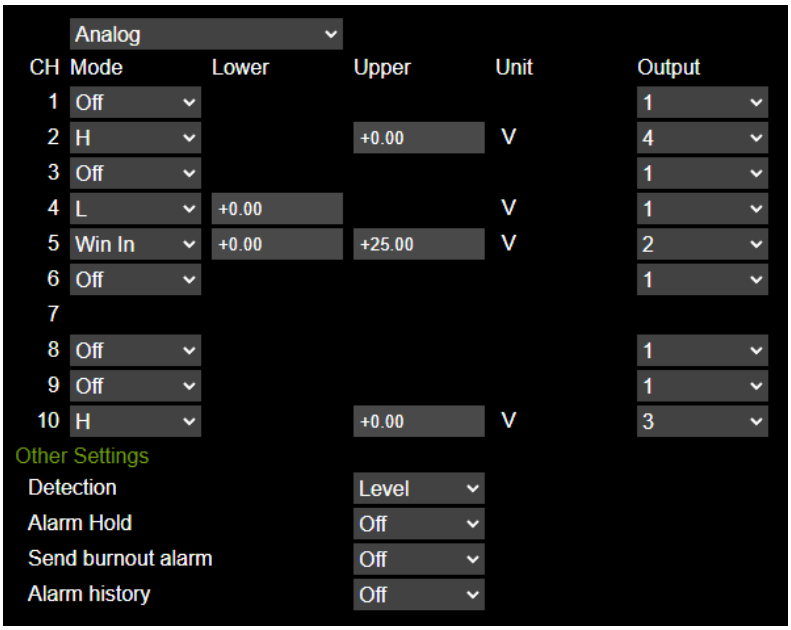


DATA



TRIGGER

ALARM

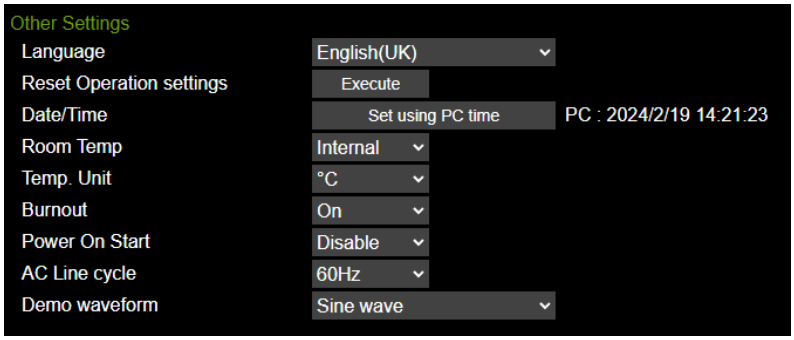


I/F

Use G-DRIVE server.

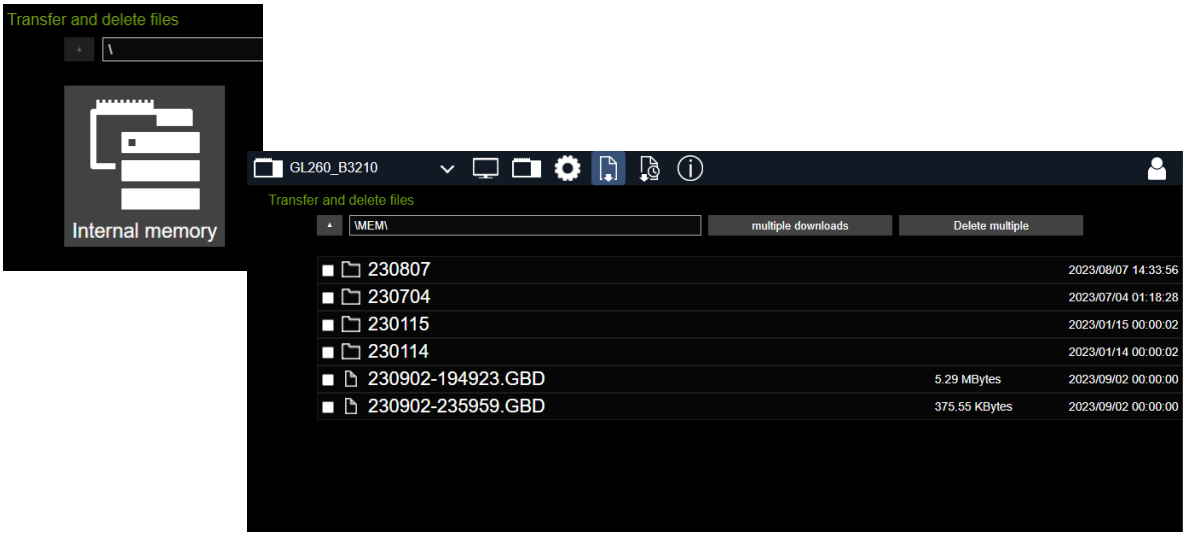
Item	Description
Use G -DRIVE server	Use the G-DRIVE of the logged in account. Clicking this will automatically fill in each Item for FTP client settings.

OTHER


Other Settings
Language
English(UK)
Reset Operation settings
Execute
Date/Time
Set using PC time
PC : 2024/2/19 14:21:23
Room Temp
Internal
Temp. Unit
°C
Burnout
On
Power On Start
Disable
AC Line cycle
60Hz
Demo waveform
Sine wave

File operation screen

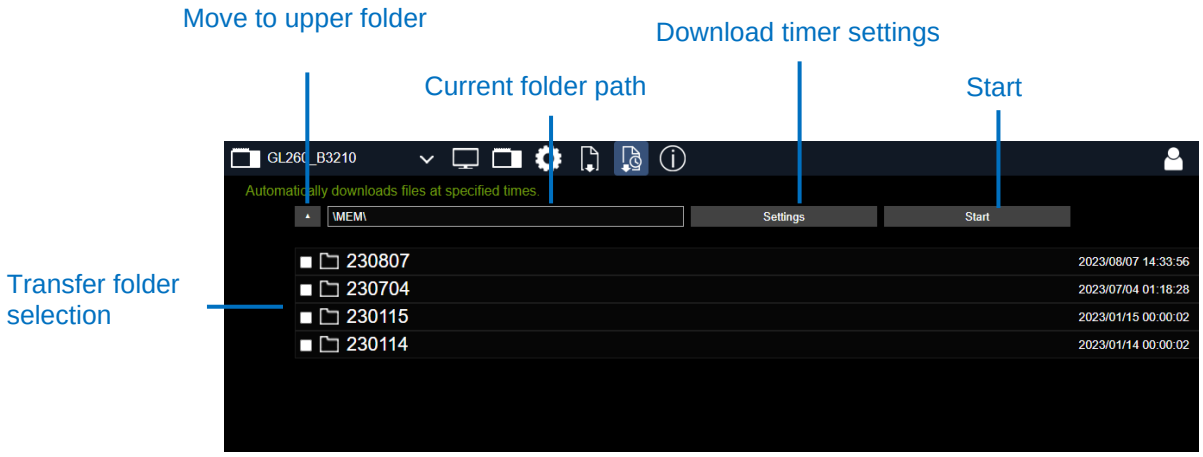
You can download and delete files in the device.
You can download/delete multiple files by checking the folders and files.
Please refer to the main unit manual for details.



*Note
*Files being recorded will not be displayed and cannot be deleted or downloaded.
*If the language of the device and the language of the file name do not match, it may not be displayed or downloaded correctly.

Download timer screen

This is a function that automatically downloads when the set time comes **while the download timer start screen is displayed.**
Up to 30 times can be set.
Download files in the checked folders.



Item	Description
Move to upper folder	Move up one folder.
Current folder path	Displays the path of the currently displayed folder.
Transfer folder selection	Please check the folders that will be automatically downloaded. You can move folders by double-clicking the folder list. You can delete a folder by right-clicking and selecting "Delete".
Download timer settings	Set download timer.
Start	Open the download timer start screen. The download will only occur when the start screen is open. If you close the screen, the download will not occur.

Note:

All files/folders in the checked folders will be downloaded for the first time. From the second time onwards, only files that have been added will be downloaded. Files with the same name will not be downloaded.

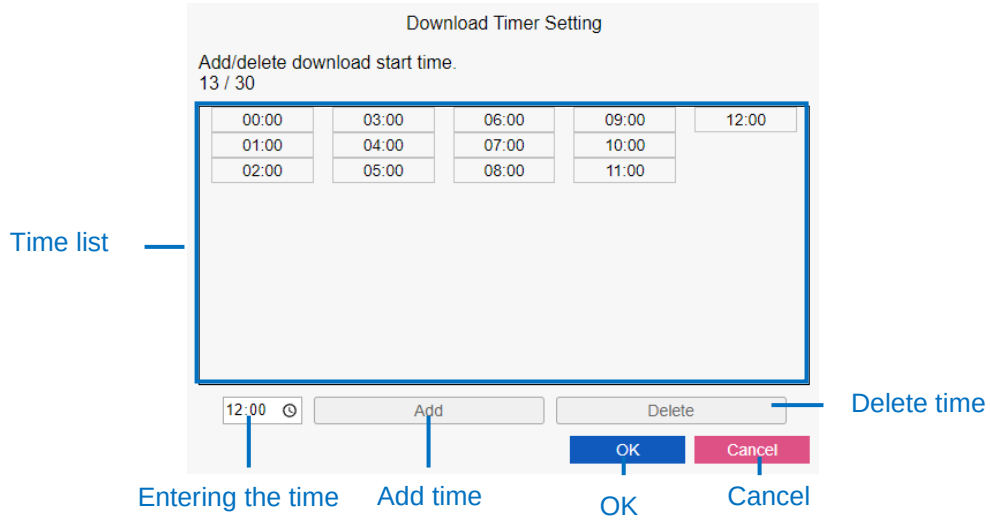
- Once you close the automatic transfer start screen, all files will be downloaded again the next time the start screen is displayed.
- Files that are being recorded will not be downloaded.

-While the automatic transfer start screen is displayed, you cannot move to other screens such as the settings screen.

- If the next time comes during automatic download, it will be ignored.

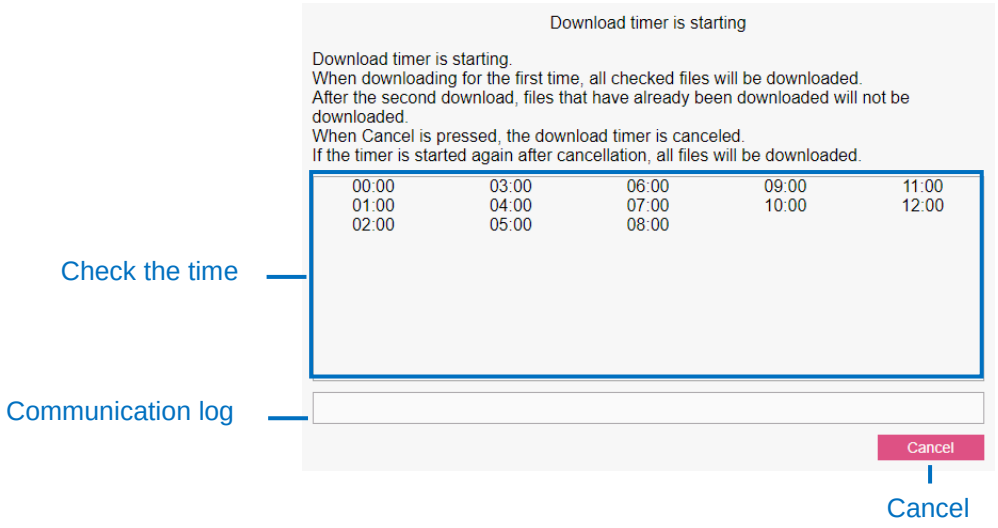
・If the language of the device and the language of the file name do not match, it may not be displayed or downloaded correctly.

Download timer settings.



Item	Description
Time list	Download timer time list.
Entering the time	Enter the time manually.
Add time	Add the entered time. You cannot add the same time.
Delete time	You can select a time in the time list and delete it.
OK	Reflect the settings.
Cancel	Closes the screen without applying the settings.

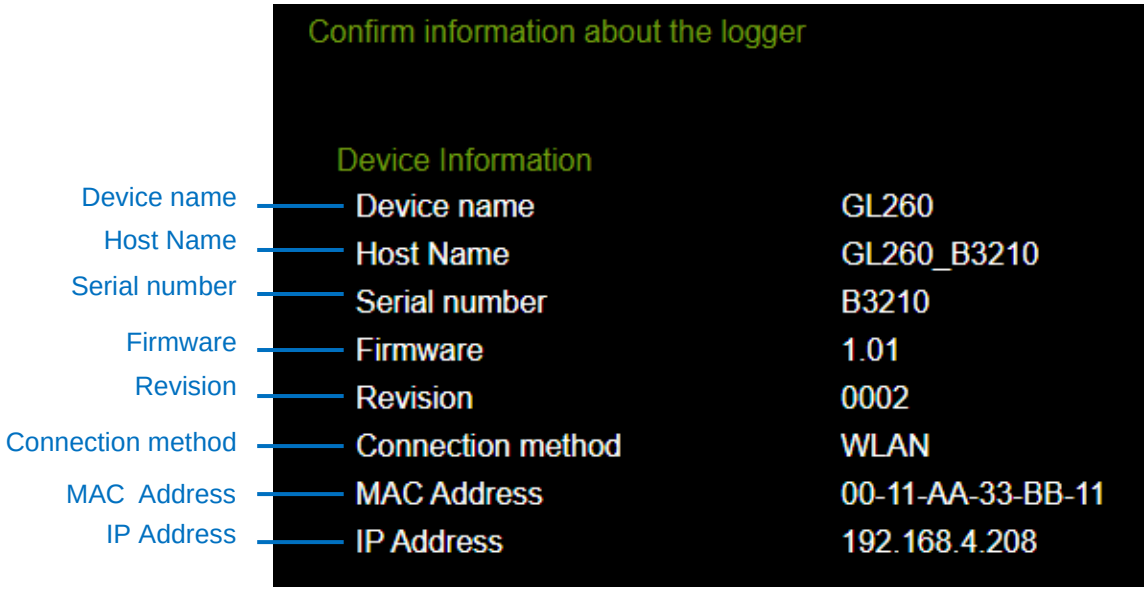
Automatic transfer start screen



Item	Description
Check the time	You can check the time when the transfer will occur.
Communication log	You can check the date and time when the last communication error occurred.
Cancel	Cancel the download timer.

Information screen

Check the information about the main unit.

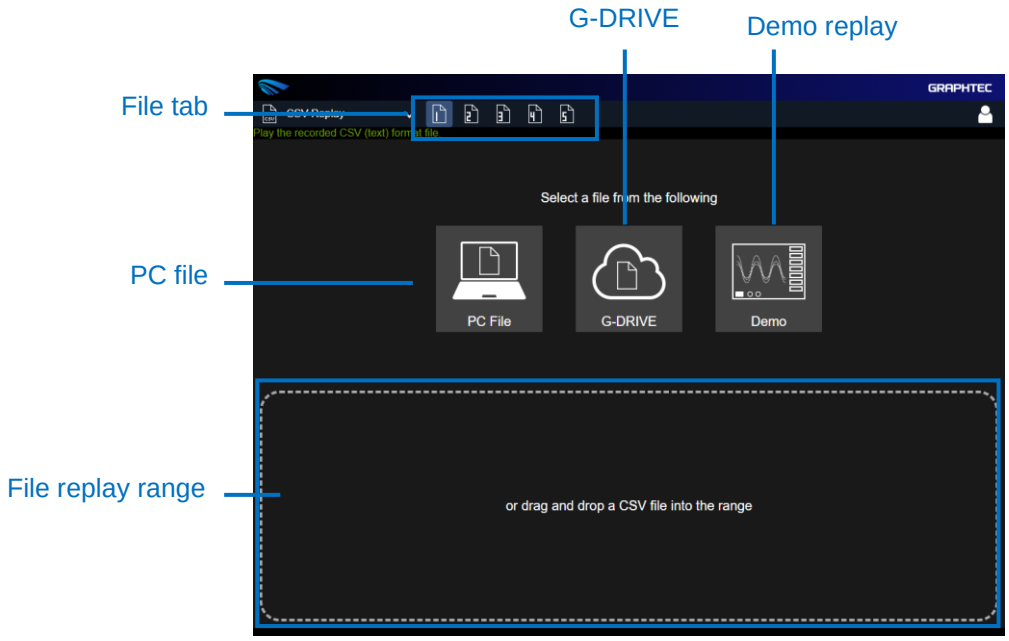


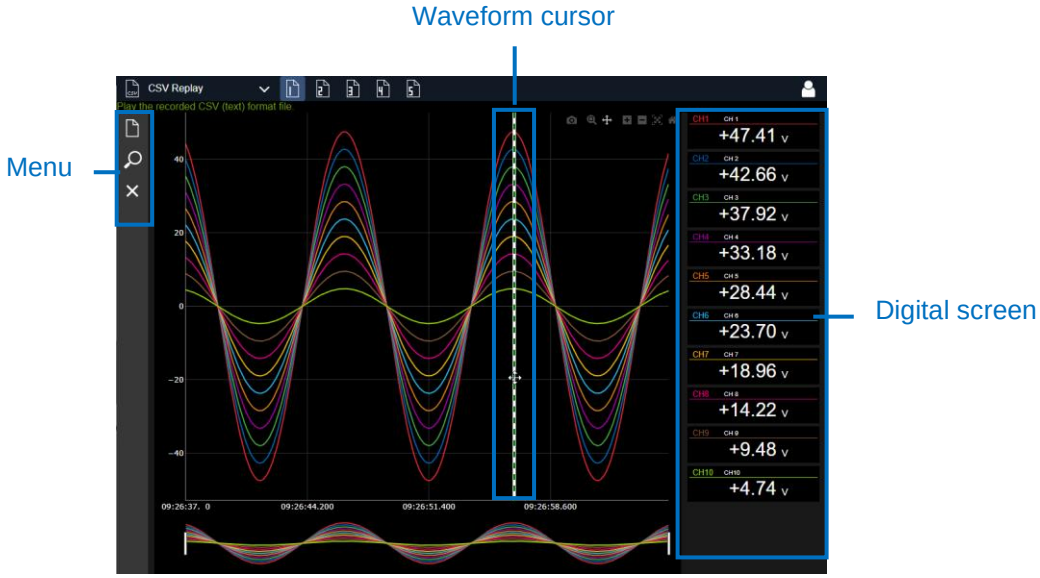
Item	Description
Device name	Displays device name.
Host Name	Displays identification name.
Serial number	Displays serial number.
Firmware version	Displays firmware version.
Revision	Show revisions.
Connection method	Displays connection method.
MAC Address	Displays MAC Address.
IP address	Displays IP address.

3.4 CSV file replay screen

This is the screen for playing CSV files saved on your PC or G-DRIVE.
You can play up to 5 at the same time by switching tabs.
CSV files saved on your PC can be played by clicking the "PC File" button or by dragging and dropping the CSV file onto the screen.
To play a CSV file on G-DRIVE, select the file from "G-DRIVE".

Note
: CSV files can be played up to a total size of 50MB.
-Depending on the memory installed in your PC, you may not be able to play large CSV files.
・Only files recorded on devices that can be connected via G-REMOTE can be played.
-Files with the same name as files that have already been played cannot be played.
・Alarm output is not supported.
- Only files with a delimiter of " ," and a decimal point of "." can be read.

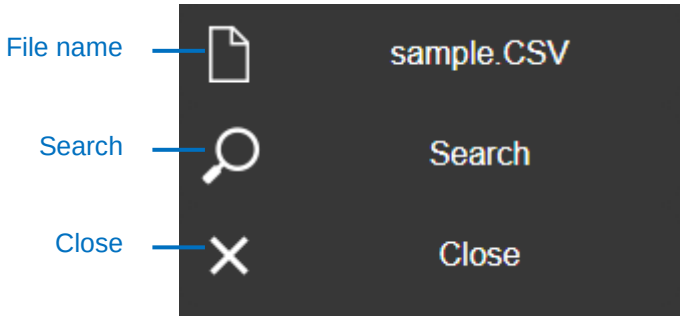




Item	Description
File tab	Select the tab to display the waveform. Up to 5 can be played.
PC file	Specify and play the CSV file in the PC folder.
G-DRIVE	Specify and play the CSV file in G-DRIVE.
Demo replay	Play the demo waveform.
File replay range	Play CSV files by dragging and dropping them onto the screen.
Waveform cursor	A cursor will be displayed when you move the mouse cursor over the waveform screen.
Digital screen	You can check the digital value at the cursor area displayed on the waveform screen.
Menu	This is a menu related to CSV replay. You can check the content by hovering over it with your mouse cursor.

CSV replay menu

You can perform searches, etc. Select "Close" to end file replay.



Item	Description
File name	Displays the name of the CSV file currently being played.
Search	Search for data.
Close	Finish playing the CSV file.

Search

You can search for data using specified conditions.
Search results are displayed in a list, and double-clicking displays a line.

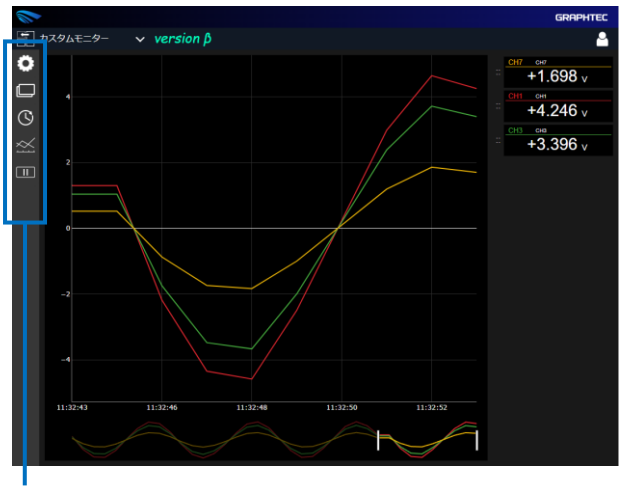
Item	Description
Search conditions	Specify search conditions. Level value search: Rise/Fall/In range/Out of range Logic search: H/L Maximum value search Minimum value search *Level value, maximum value, and minimum value searches are applicable to analog, pulse, and calculation channels.
Search execution	Search based on conditions.
Result list	The time, CH, and value when the conditions are met are displayed. Double-clicking the result will display a mark on the waveform.
Close	Close the CSV search screen.

3.5 Custom monitor function

This function allows you to freely select CHs from multiple connected devices and display them on a single waveform.
Up to 20 channels can be added.
The added CHs can be rearranged freely by dragging with the mouse.

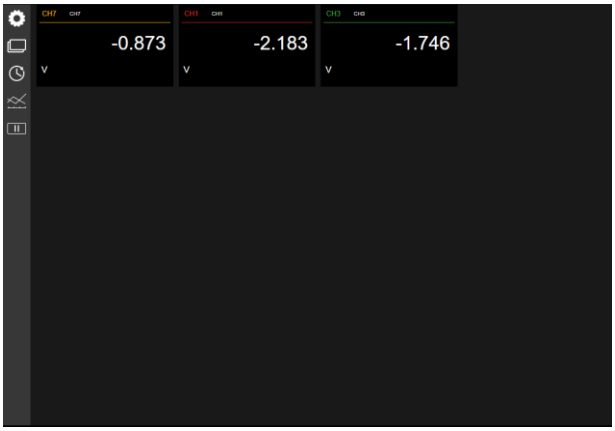
Waveform screen

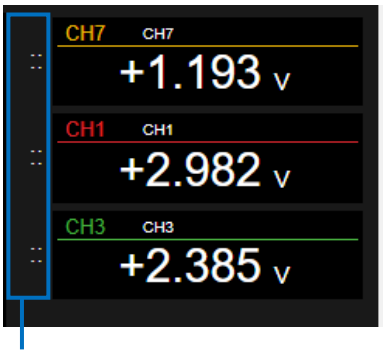
Waveform screen



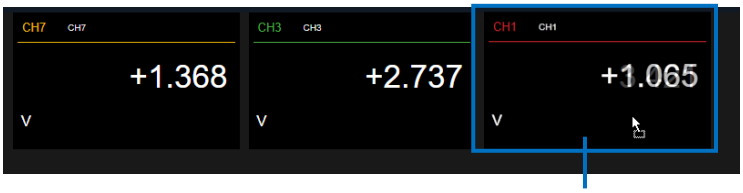
Waveform menu

Enlarged digital value display





Mouse draggable area



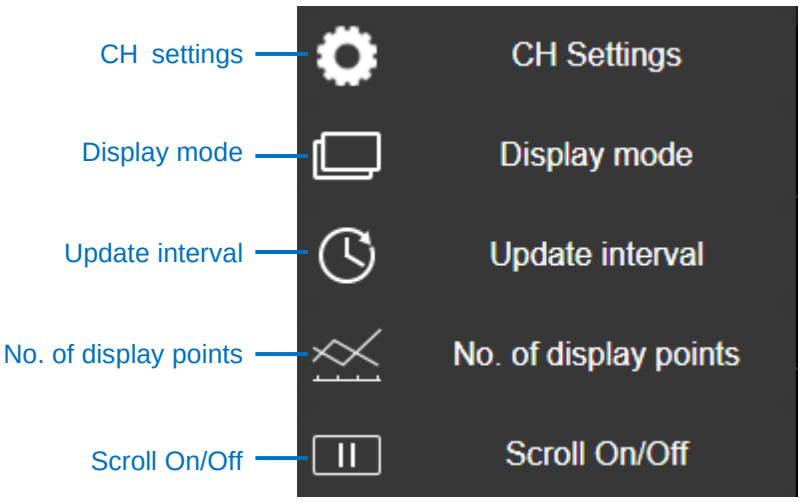
Mouse draggable area

項目	説明
Waveform menu	This is a menu related to waveform operations. You can check the content by hovering over it with your mouse cursor.
Waveform screen	You can check the waveform. The waveform update interval is the same as the update interval set in the waveform menu.
Digital screen	You can check the digital value. The update interval is the same as the update interval set in the waveform menu.
Mouse draggable area	In the waveform screen, the order of CHs is changed by dragging "::" next to the digital. In the digital screen, drag CH to change the CH sequence.

Note
When the custom monitor screen is displayed, the update interval of various devices is changed to 1 second

Waveform menu

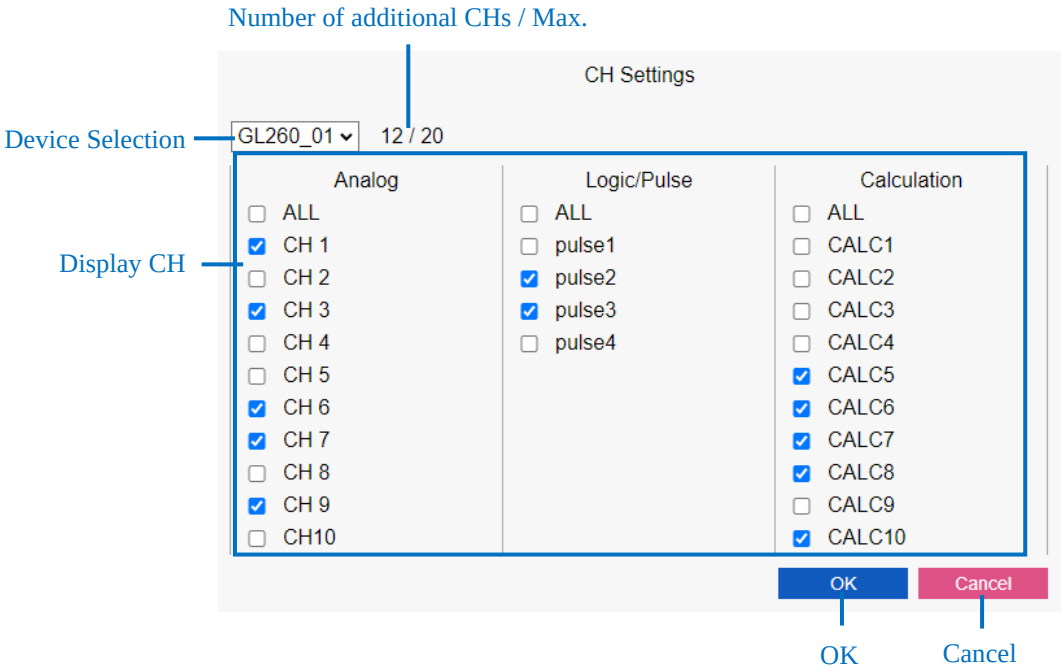
Check the model name and change the waveform settings.



Item	Description
CH settings	You can check the distinguished name.
Display mode	Switch between waveform display and enlarged digital display.
Update interval	You can change the update interval. 1,2,5,10,20,30 seconds/1 minute
No. of display points	Change the number of points displayed on the waveform screen. The waveform scrolls when you change the number of displayed points. *When screen scrolling is on 10,20,50,100 points
Scroll On/Off	Change the settings for automatically scrolling the waveform screen. By stopping screen scrolling, you can go back and check the waveform.

CH setting screen

Set the CH to be displayed on the waveform.
You can select from analog, logic, pulse, and arithmetic CHs whose input is other than Off.
Up to 20 CHs can be added.

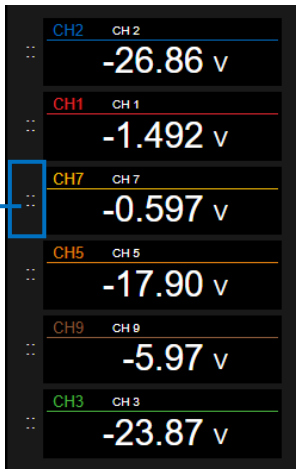


項目Item	説明Description
Device Selection	Switch devices.
Number of additional CHs / Max.	Displays the number of CHs currently added and the maximum number of CHs that can be added.
Display CH	Displays analog, logic, pulse, and arithmetic CHs whose inputs are not Off. CHs can be added by checking the checkboxes.
OK	Confirm changes and add the checked CH to the waveform.
Cancel	Cancel changes.

CH Sorting

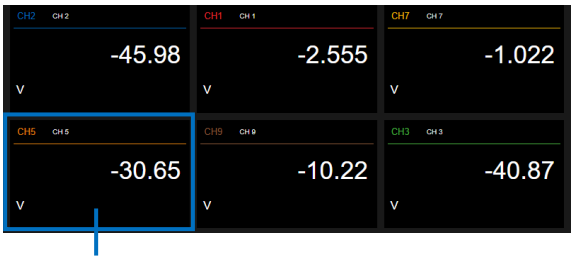
The order of CHs can be rearranged by dragging the digital values on the waveform and magnified digital screens.

Waveform Screen



Mouse draggable area

Enlarged digital value display



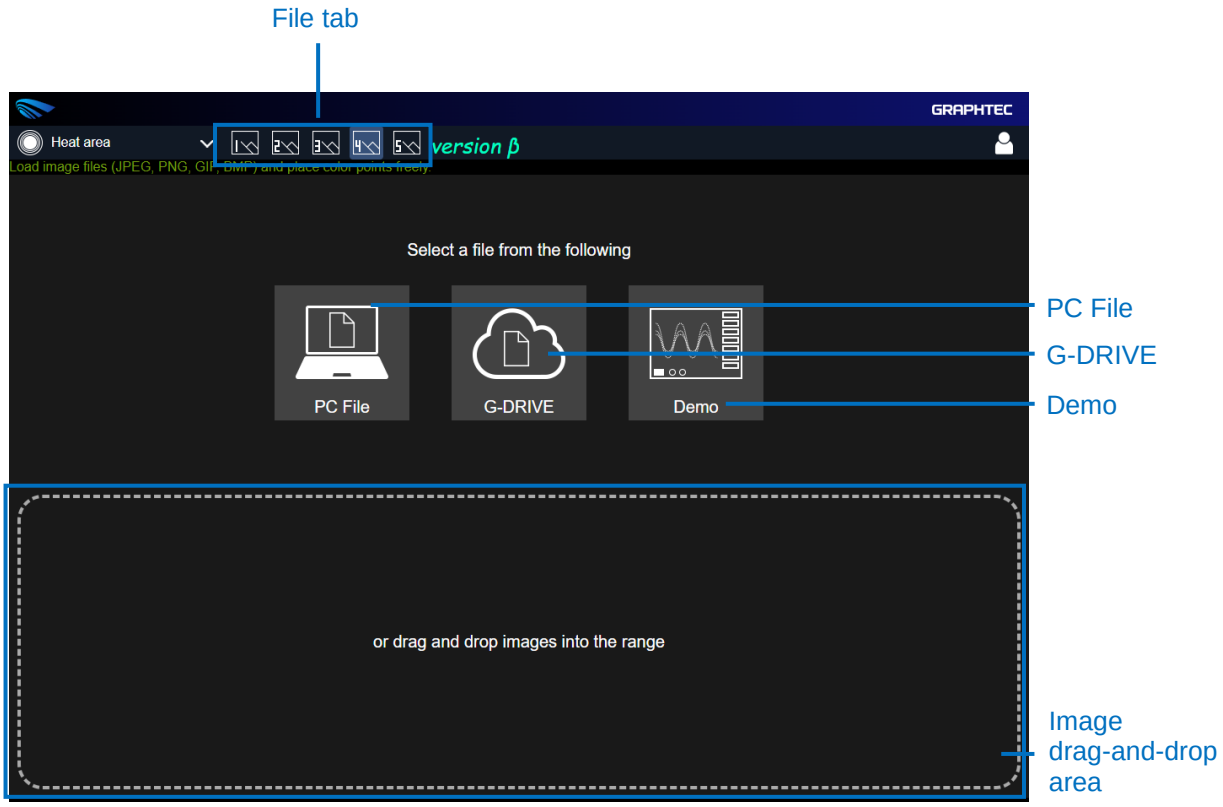
Mouse draggable area

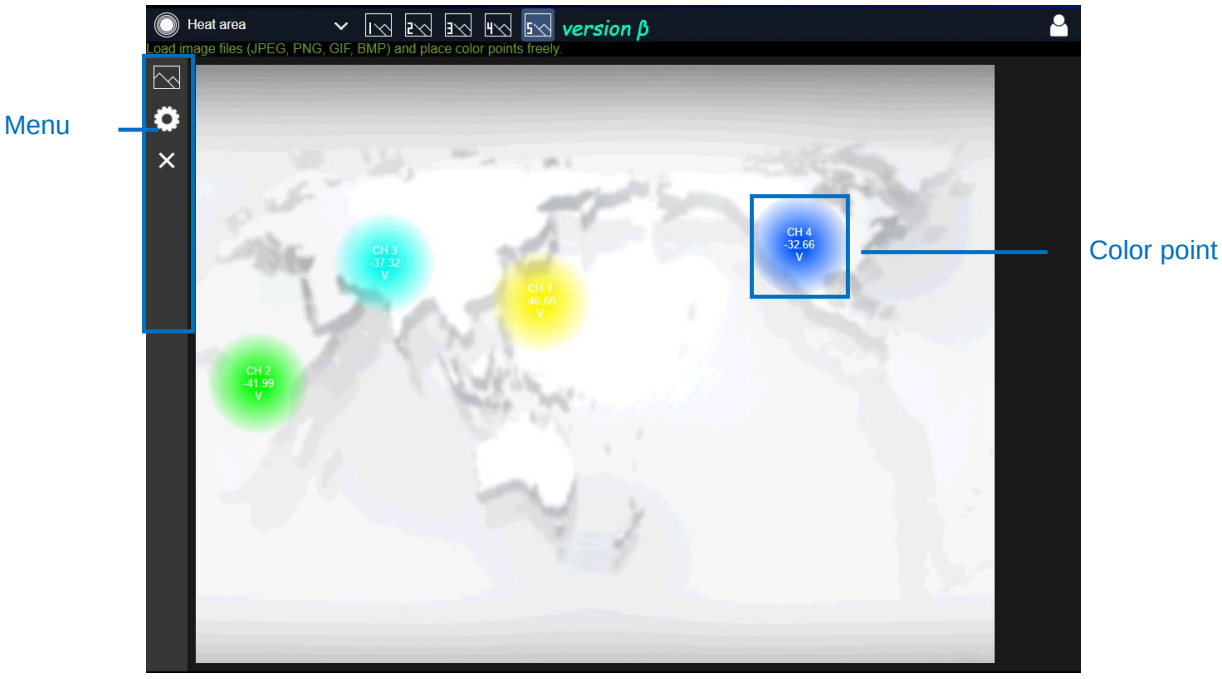
3.6 Heat area function (beta version)

This function loads an image on a PC and freely places color points on the image.
It is also possible to set the color points to change color according to their values.
Images with the latest update time can be displayed by specifying a folder on G-DRIVE.
Up to five images can be played back simultaneously by switching tabs.

Note.
- -The total size of image files can be up to 50MB.
- -Up to 30 color points can be added.
- -Only analog CH is supported.
- -Image files that can be played back are JPEG, PNG, GIF, and BMP.

Heat Area Screen





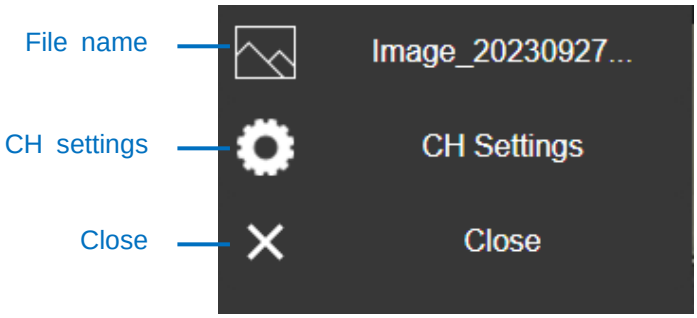
Item	Description
File tab	Switches tabs to display images. Up to 5 images can be played.
PC File	Specify images in the PC folder to play.
G-DRIVE	Specify a folder in G-DRIVE. The latest image with the update time existing in the specified folder is displayed. The image update interval is about 2 seconds.
Demo	Play the image for demonstration. Color points will be placed in the demo position.
File replay range	Play image files by dragging and dropping them onto the screen. Playable extensions are “JPEG, PNG, GIF, BMP”.
Menu	This menu is related to heat area settings. You can check the contents by hovering the mouse cursor over them.
Color point	Displays the color points added in the CH settings. You can move them by mouse dragging on the image.

Note

When the Heat Area screen is displayed, the update interval for various devices is changed to 1 second.

Menu

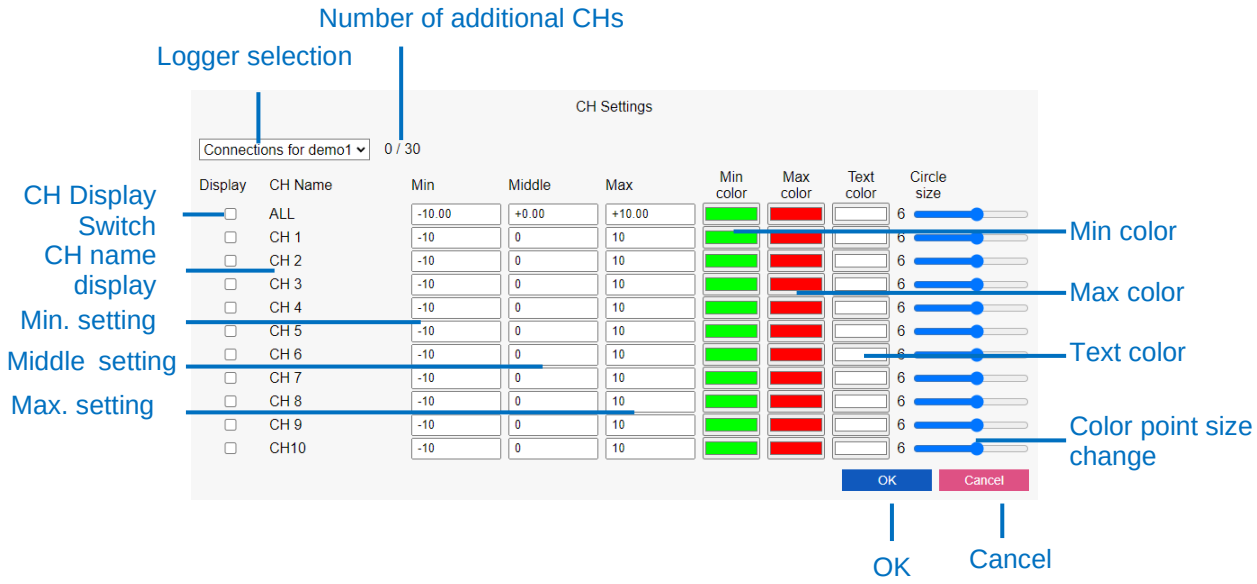
CH settings and other settings can be made. Select “Close” to exit the image play.



Item	Description
File name	Displays the name of the currently playing image. If G-DRIVE is selected, the folder path is displayed.
CH settings	CH settings.
Close	Finish playing the image.

CH settings

Sets the color points to be placed on the image.



Item	Description
Logger selection	Select logger.
Number of additional CHs	Displays the number of CHs to be placed. Up to 30 CHs can be placed.
CH Display Switch	Switches the CH to display color points. All the settings can be changed by selecting “ALL”.
CH name display	Displays each CH.
Min. setting	Sets the minimum value for the color point. The closer to the minimum value, the more the background of the color point changes to the minimum color. All the settings can be changed by selecting “ALL”.
Middle setting	Sets the midpoint value of the color point. The closer to the intermediate value, the color point background changes to transparent. All the settings can be changed by selecting “ALL”.
Max. setting	Sets the maximum value of the color point. The closer to the maximum value, the more the background of the color point changes to the maximum color. All the settings can be changed by selecting “ALL”.
Min color	Sets the minimum color for the color points. All the settings can be changed by selecting “ALL”.
Max color	Sets the maximum color of the color points. All the settings can be changed by selecting “ALL”..
Text color	Sets the text color of the color point. All the settings can be changed by selecting “ALL”..
Color point size change	Change the size of the color points. All the settings can be changed by selecting “ALL”.
OK	Reflects the changes made.
Cancel	Discard the changes made.

Specifications are subject to change without notice.

G -REMOTE USER'S Manual
G-REMOTE-UM-151-03

Published June 12, 2024
3rd Edition

GRAPHTEC CORPORATION

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