

OPERATION MANUAL

MFR Series

MFR Series Web-based Control (Offline)

Version 1.98 - Higher

Edition Revision History

Version.	Revision	Date	Description	Section/Page
1.98	-	2018/03/28	First release	

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Table of Contents

1. About MFR Offline GUI.....	5
2. Example 1: Setting Individual Pages	6
2-1. Starting Offline GUI	6
2-2. Offline GUI : Setting Source Name Page.....	6
2-3. Online GUI : Applying Settings to MFR System.....	7
3. Example 2: Changing All Page Settings.....	8
3-1. Online GUI : Saving Settings to Allfile.dat.....	8
3-2. Offline GUI : Load Allfiles.dat.....	8
3-3. Offline GUI : Changing Settings.....	9
3-4. Online GUI : Applying Changes to MFR System	9
4. Functions Available Only on Offline GUI	10
4-1. Configuration Page Settings	10
4-2. System Construction Page Settings (for Tally Manager)	11
4-3. Link Settings Page	13
4-4. Source Name / Destination Name Page	14
4-5. Remote Units Settings (Assign Function Page).....	15
4-5-1. Simultaneously Assigning a Function to Buttons.....	15
4-5-2. Assigning Bitmap Images to Remote Unit Buttons.....	16

1. About MFR Offline GUI

The MFR Series Web-based Control OFFLINE (hereafter called **Offline GUI**) comprises almost the same GUI menu pages in the Web-based Control (hereafter called **Online GUI**) and allows you to set up the MFR system in the same manner.

A main difference between Online GUI and Offline GUI is that the latter can create setting files without connecting to Main Units and verify setting files created in Main Units. Settings in the Offline GUI are applied to the MFR system by loading files from the Online GUI.

◆ Operational Environment

OS	Windows® 7 Professional (32-bit) and later
Web browser	Windows® Internet Explorer 11 Firefox® 59
CPU	2.4 GHz or faster
RAM	1 GB or more
Optical disc drive	CD-ROM supported
Display	Resolution: 1024×768 pixels or more, 24-bit full-color
Network port	100BASE-TX/1000BASE-T, more than 1 port

◆ Starting the Offline GUI

Insert the CD-ROM supplied with your MFR units into your optical disc drive. Open the **index.html** in the CD-ROM to launch the Offline GUI with your web browser.

Only two web browsers are supported: Internet Explorer 11 and Firefox 59 . Do not use neither Chrome nor Safari.

◆ Offline GUI restrictions

- All menus in Offline GUI **start with factory defaults**.
 - Main unit settings in the Configuration page start with main unit default settings.
 - Audio slot settings start with settings specified in the default settings page.
 - Settings loaded to Offline GUI pages using files are **preserved even if moving to another page**. However, they are **reset to factory defaults when closing the web browser**.
 - Settings saved by pressing **OK** are **preserved even if moving to another page**. However, they are **reset to factory defaults when closing the web browser**.
- The following GUI pages are not supported on the Offline GUI.
 - NetworkSettings
 - SNMPSettings
 - MU Info
 - RU Info
 - GPI Info
 - Slot Info
- **Changing the main unit in the Configuration page resets all Offline GUI settings** to factory defaults.

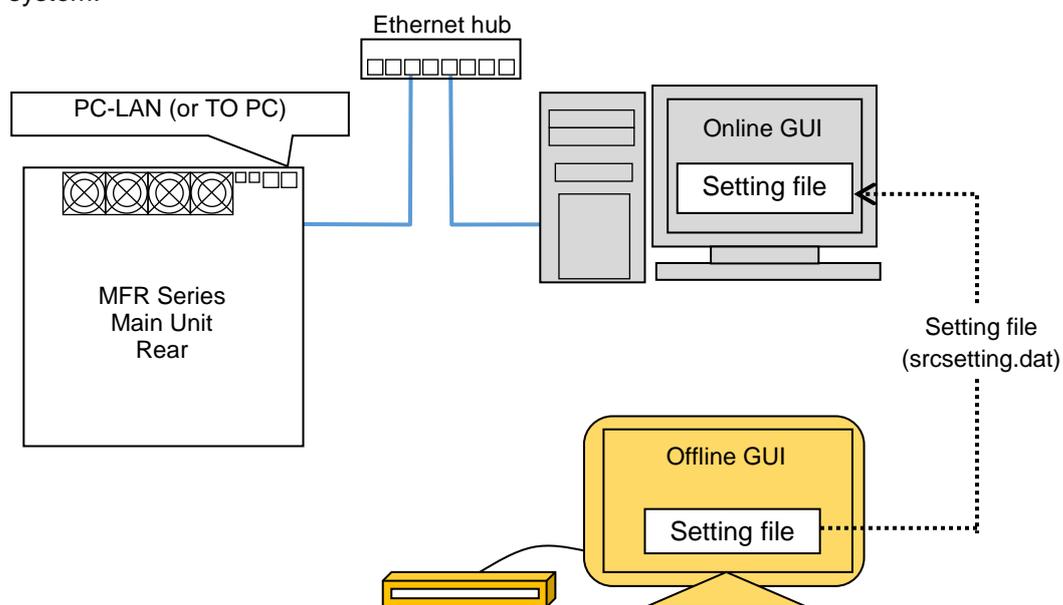
IMPORTANT

When starting the Offline GUI, a message like below may pop up: "Internet Explorer has restricted this webpage from running Scripts or ActiveX Controls." In such cases, click the Allow Blocked Content button.

2. Example 1: Setting Individual Pages

The Offline GUI allows you to set individual GUI pages. The following procedure sets the Source Name page as an example.

1. Start the Offline GUI and set your MFR system configuration
2. Perform the Source Name page settings in the Offline GUI and create a setting file (srcsetting.dat).
3. Load the setting file (srcsetting.dat) in the Offline GUI Source Name page to apply it to the MFR system.



2-1. Starting Offline GUI

- (1) Insert the CD-ROM supplied with your MFR units into your optical disc drive.
- (2) Open the **index.html** in the CD-ROM. The Offline GUI Configuration page appears.
- (3) Set your MFR system configuration in the Configuration page. After settings, Click **OK**. The Configuration page automatically closes and the GUI start page similar to the one as shown in the Online GUI opens. To save the Configuration page settings, click **Save** before clicking **OK**. See Sec. 4-1. "Configuration Page Settings."

2-2. Offline GUI: Setting Source Name Page

- (1) Open the Offline GUI Source Name page. All menu settings are set to the factory default values at startup. Change settings, as necessary. **TXT** buttons enable you to input names faster and easier. (See Sec 4-4. Source Name / Destination Name Page.)
- (2) After completing settings, press **Send** then **Save**. Settings will pop up in a dialog box.

Source Name

Lock local names

Source Name No. 1-20

Logical No.	Category	Name(ASCII)	ID Name(Kanji)	Import Name
1	SRC-A	SRC 1		
2	SRC-A	SRC 2		
3	SRC-A	SRC 3		
4	SRC-A	SRC 4		
5	SRC-A	SRC 5		
6	SRC-A	SRC 6		
7	SRC-A	SRC 7		
8	SRC-A	SRC 8		

Source Category

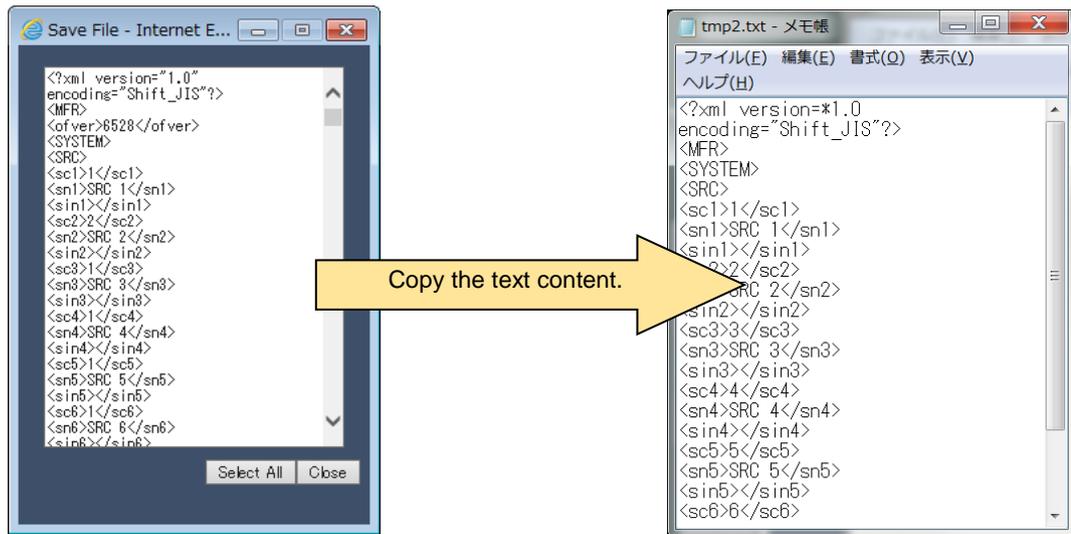
No.	Name	Color
1	SRC-A	Color8
2	SRC-B	Color8
3	SRC-C	Color8
4	SRC-D	Color8
5	SRC-E	Color8
6	SRC-F	Color8
7	SRC-G	Color8
8	SRC-H	Color8

- (3) Use a text editor such as the Windows Notepad to create and open a text file.
- (4) Click **Select All** in the dialog shown in Step (2) and right-click or **Ctrl + C** on the text field in the dialog to copy text data. Paste the copied data to the created text file and rename the file to **srcsetting.dat**.

IMPORTANT

Setting files (.dat files) should be saved with **Ascii codes**. Do not use Unicode (UTF-8) encoding. Use Windows Notepad or Wordpad to save text files normally (by selecting **ANSI** in the encoding field).

Note that .dat file names (except the file extension) can be changed as needed.



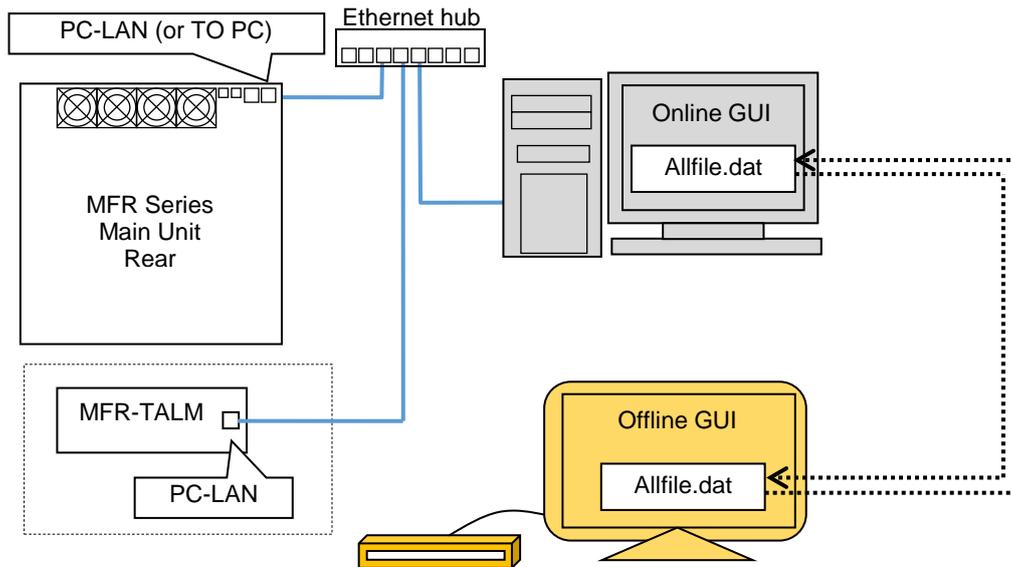
2-3. Online GUI: Applying Settings to MFR System

- (1) Copy or move the setting file (srcsetting.dat) created in the previous section to a location that can be accessed by the Online GUI.
- (2) Open the Online GUI and load the above setting file. See the "Web-based Control Operation Manual" for details on how to load setting files.

3. Example 2: Changing All Page Settings

Using **allfile.dat** files holding all MFR settings allows you to collectively change all of your MFR system in a few steps.

1. Save all MFR settings to an “**Allfile.dat**” file in the Online GUI.
2. Start the Offline GUI and enter the MFR system configuration.
3. Open the All Files page in the Offline and load the “**Allfile.dat**” file.
4. Change MFR system settings in the Offline GUI pages.
5. Open the All Files page in the Offline and save the “**Allfile.dat**” file.
6. Load the above “**Allfile.dat**” file in the Online GUI to apply changes to the MFR system.



3-1. Online GUI: Saving Settings to Allfile.dat

- (1) Open the Web-based Control (Online GUI). (See the “Web-based Control Operation Manual” for details on how to open the Web-based Control.)
- (2) Open the All Files page and press **Save**. All MFR system settings are downloaded to the PC and stored as an **Allfile.dat**. (See the “Web-based Control Operation Manual” for details on how to save all settings.)

3-2. Offline GUI: Load Allfiles.dat

- (1) Copy or move the **Allfile.dat** file downloaded in the previous section to the PC on which the Offline GUI will run.
- (2) Insert the CD-ROM supplied with your MFR units into your optical disc drive.
- (3) Open the **index.html** in the CD-ROM. The Offline GUI Configuration page appears.
- (4) Set your MFR system configuration in the Configuration page. After settings, Click **OK**.

Pressing **Save** before pressing **OK** allows you to save Configuration page settings for loading them afterwards. See Sec. 4-1. “Configuration Page Settings” for more details.

- (5) Open the All Files page and load the **Allfile.dat** file copied in Step (1).

3-3. Offline GUI: Changing Settings

- (1) Open an Offline GUI pages and change settings.
- (2) After page settings, press **Send**.

Make sure to press **Send** before moving to another page. Otherwise, all settings in the page will be cleared.

To save each page settings to a file, click **Save**. The file can be reloaded to the Offline GUI.

- (3) Move to another page, change settings and press **Send**.
- (4) After all MFR settings are complete, save all MFR settings to an **Allfile.dat** file.

3-4. Online GUI: Applying Changes to MFR System

- (1) Copy or move the **Allfile.dat** file (srcsetting.dat) saved in the Offline GUI to a location that can be accessed by the Online GUI.
- (2) Open the Online GUI.
- (3) Open the All Files page and load the **Allfile.dat** file to apply changes to the MFR system. (See the “Web-based Control Operation Manual” for details on All Files page operations.)

4. Functions Available Only on Offline GUI

When the Offline GUI is launched, the Configuration page appears at first. This page is not included in the Web-based Control (Online GUI) and used to configure MFR systems.

If starting the Offline GUI for the MFR-TALM (Tally Manager), the System Construction page appears at first and allows you to easily configure MFR tally systems.

Bitmap images can be used for remote unit buttons by directly connecting the Offline GUI and remote units via LAN.

In order to make settings easier, some pages such as Source Name, Destination Name and Link Settings have specialized buttons that are not available in the Online GUI.

This section explains how to set these pages and to use the specialized buttons.

4-1. Configuration Page Settings

The Configuration page is used to configure MFR systems. In Online GUI, there is no such pages and the MFR system configuration is obvious to the software because the system information can be directly obtained through the MFR network. In Offline GUI, however, the Configuration page is indispensable because there is no other way to obtain system configuration data.



(1) Main Unit Settings

- The **Unit** field at the upper right corner of the Main Unit block is used to set the number of Main Units in the system. Select the number according to your system.
- Select the main unit's model name under **Model**.
- If CPU redundancy is enabled in the MFR system, check the **Redundant CPU** check box.
- **MFR-8000/5000/3000** only: Specify which input or output cards are installed on which slots on the Main Unit rear panel.

(2) Remote Unit Settings

- All MFR Remote Unit Models are displayed in the above block. Set the number of units in the system for each model.
- Once numbers are set, all Remote Units in the system are listed in the bottom block. Enter Unit ID numbers for the Remote Units. (Unit ID numbers are identified with the last octet number of Remote Unit's IP address.)

<Sorting Remote Units>

Checking the **Model** checkbox under **Sort Type** sorts the list elements in ascending order of Model Names. Checking the **ID(UP)** or **ID(DOWN)** checkbox sorts the elements in ascending or descending order of Unit ID numbers.

- (3) Press **OK**. The Configuration settings are saved and the page automatically closes and the GUI start page similar to the one as shown in the Online GUI (with menu tree at right and setting screen at left) opens.

- Pressing **Save** before pressing **OK** allows you to save Configuration page settings for loading them afterwards.
The Offline GUI always starts with default settings. Once the Configuration setting file is stored, the page can be easily reconstructed by loading the setting file.
- Note that changing the Main Unit Model in the Configuration page resets all Offline GUI settings to factory defaults.

4-2. System Construction Page Settings (for Tally Manager)

When the Offline GUI for the MFR-TALM (Tally Manager) is launched, the **System Construction** button appears. Pressing the button opens the System Construction page as shown below, in which tally systems comprising FOR-A MFR, HVS and MV series devices can be configured. **System Construction** appears at first and allows you to easily configure MFR tally systems.

System Construction

Apply

TOP All Files TALM Settings Tally System

System Construction

Select a switcher.

Set the MV IP address.

Clicking this deletes the MV device.

Clicking this adds an MV device.

Clicking the button opens the window below.

Edit Connection MFR Main Unit

Configure tally output connections.

Exit Editing MFR Main Unit

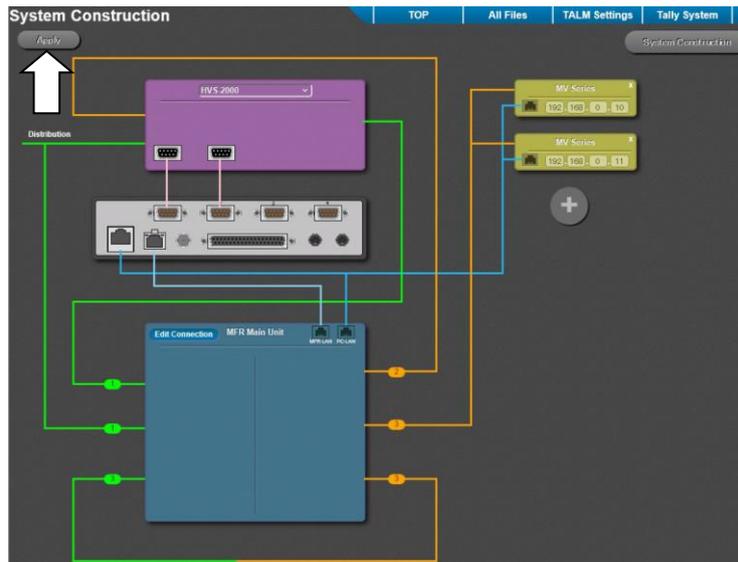
Clicking the button applies settings to the above block diagram.

Configure tally input connections.

Select information to be sent to MV units.

Device	Port	Connection
HVS(IN)	IN3	IN 1
MFR	OUT3	IN 2
MFR	OUT4	IN 3
MFR	OUT5	IN 4
HVS(OUT)	AUX1	IN 5
None		IN 6
None		IN 7
None		IN 8
None		IN 9
None		IN 10
None		IN 11
None		IN 12
MFR-LAN	OUT 1	HVS IN1
MFR-LAN	OUT 2	HVS IN2
MFR-LAN	OUT 3	MFR IN2
MFR-LAN	OUT 4	MFR IN3
MFR-LAN	OUT 5	MFR IN4
MFR-LAN	OUT 6	None
MFR-LAN	OUT 7	None
MFR-LAN	OUT 8	MV TSL1
MFR-LAN	OUT 9	MV TSL2
MFR-LAN	OUT 10	MV TSL3
MFR-LAN	OUT 11	None
MFR-LAN	OUT 12	None

After finishing all settings, press **Exit Editing** to exit the window and apply the settings to the block diagram in the System Construction page.



Click **Apply** to apply the configuration in the block diagram to the following pages.

- Port Settings
- Assign Tally
- Source Connection
- Re-entry
- DP-MV Tally
- Device Select

After finishing other settings, apply settings to the MFR system by referring to Sec. 2-3. "**Online GUI**: Applying Settings to MFR System" or Sec. 3-4. "**Online GUI**: Applying Changes to MFR System."

4-3. Link Settings Page

◆ Link Assistance Button

The **Link Assistance** button is added to the Link Settings page.

Clicking the button opens the **Link Assistance** window as shown below.

The Link Assistance window makes SDI source or destination links easier.

Source	Destination
1 SDIx4 IN1 - IN4	1 SDIx4 OUT1 - OUT4
2 SDIx4 IN5 - IN8	2 SDIx4 OUT5 - OUT8
3 SDIx4 IN9 - IN12	3 SDIx2 OUT9 - OUT10
4 SDIx2 IN13 - IN14	4 SDIx2 OUT11 - OUT12
5 SDIx2 IN15 - IN16	5 No Link OUT13
IN17	6 No Link OUT14

For example, to create 3 sets of 4-channel links and 2 sets of 2-channel links in the Source block, select **SDIx4**, **SDIx4**, **SDIx4**, **SDIx2** and **SDIx2** as shown above.

Create SDI destination channel links in the same manner .

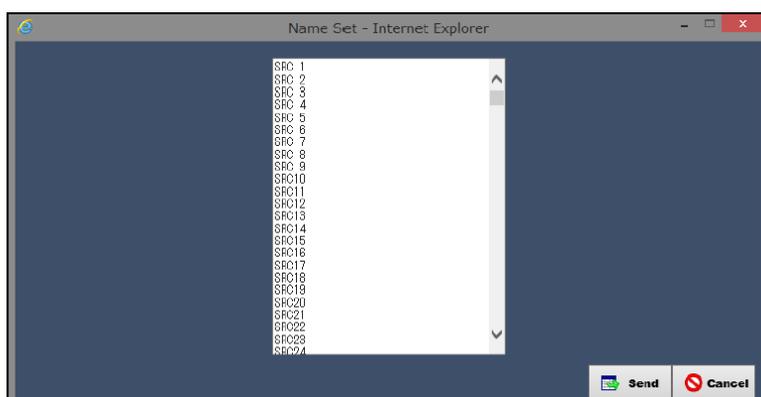
Available channel links are **2**, **3**, **4**, **8** and **16** channels.

After all links are set, press **OK**.

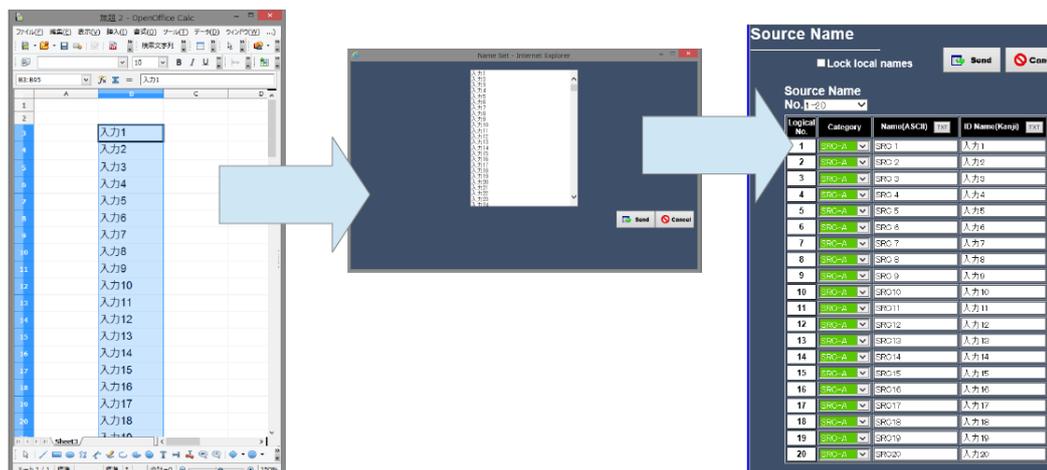
4-4. Source Name / Destination Name Page

◆ TXT (Text-based) Button

TXT buttons are added to the Source Name and Destination Name pages. Clicking the button opens a text box as shown below.



Multiple lines of text can be entered in the text box and each line in the text box corresponds to each one in the Source or Destination list. For example, type names in a worksheet in the Excel, copy them together to the text box and press **Send** to enter the names into the Source list as shown below. This button enables you to enter multiple names more easily.



4-5. Remote Units Settings (Assign Function Page)

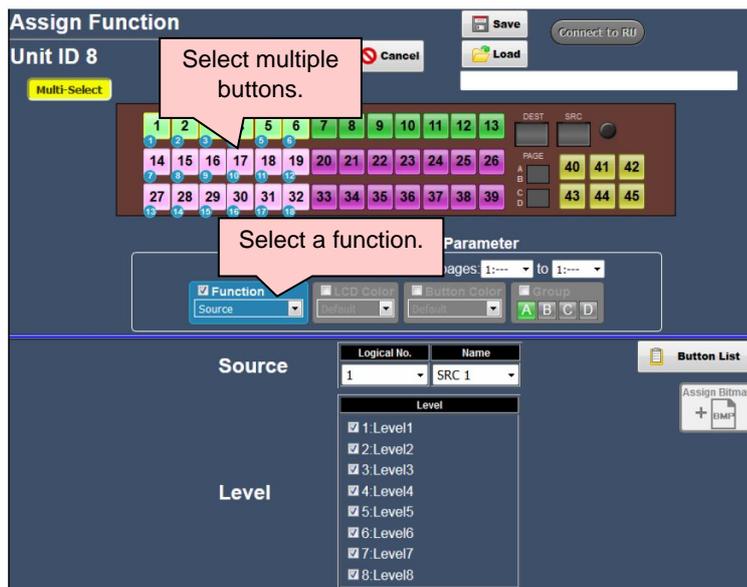
After selecting remote units and clicking **OK** in the Configuration page, the remote units appear in the left menu tree. To assign functions to remote unit buttons, open the Assign Function page, in which multiple successive channels for source, destination and bus can be assigned to buttons simultaneously.

In addition to this, bitmap images can be used for remote unit buttons by directly connecting the Offline GUI and remote units via LAN. Image display buttons are available only on MFR-39RUA / 18RUA / 16RUTA units.

4-5-1. Simultaneously Assigning a Function to Buttons

Use the **Multi-Select** button to assign a function to buttons.

- (1) Press **Multi-Select** to enable multiple button assignments.
- (2) Select multiple buttons (by successively clicking buttons or dragging a rectangular area).
- (3) Select a function.
If selecting **Source**, **Destination** or **Bus** is selected, successive channels are automatically assigned to the buttons.
- (4) Press **Send**, then **Save** to save settings in the page.
- (5) Refer to Sec. 2-3. "**Online GUI: Applying Settings to MFR System**" to apply the settings to the MFR system.

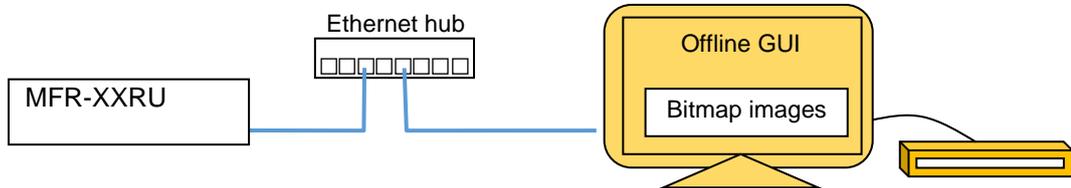


4-5-2. Assigning Bitmap Images to Remote Unit Buttons

◆ Connecting the Online GUI to a Remote Unit

Bitmap images can be used for button display (monochrome, 52 x 36 pixels) in remote units. Note that uploading color images are changed to monochrome and excess parts are cut off if images are larger than the specified size.

- (1) Connect the Offline GUI PC and a remote unit via LAN.

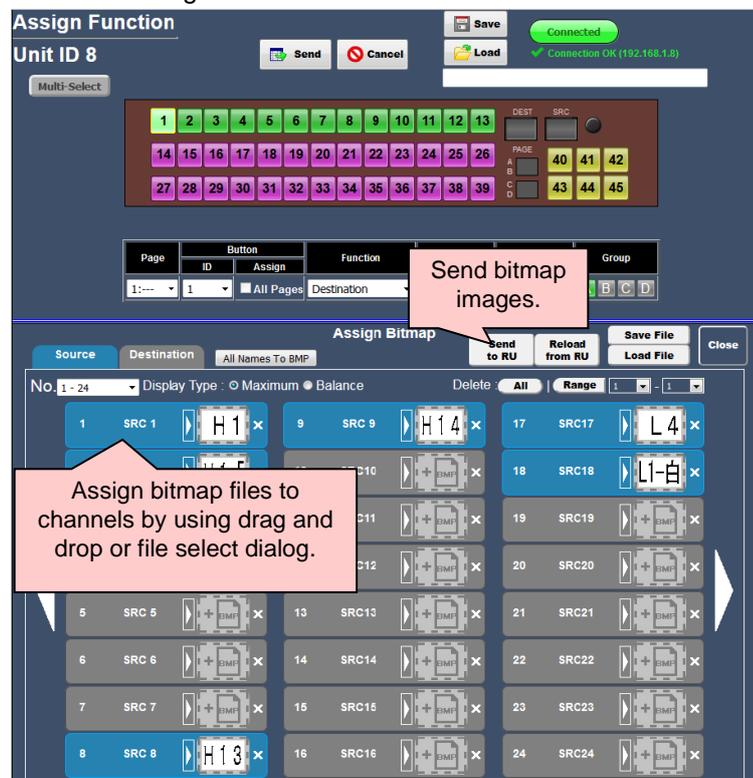


- (2) Select Assign Function in the left menu tree to display the Assign Function page for the remote unit. When the page appears, press **Connect to RU** to connect to the remote unit. Once the connection is established, the button changes to **Connected.**



◆ Assigning bitmap images to buttons

- (1) Press **Assign Bitmap** in the right side.
- (2) Select a bitmap image for each channel (source or destination) by using drag and drop or file select dialog.



- (3) After assignments, press **Send to RU** to upload and apply images to the remote unit.