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LR8450, LR8450-01 Memory HiLogger Version Upgrade

To Begin:

1. Obtain a HIOKI-issued SD Card or USB Memory Stick.
This will be used to save the version upgrade file as well as load the file onto the LR8450/LR8450-01.
2. Download the version upgrade file from the HIOKI website.
3. Decompress the downloaded file (ZIP format) onto your PC's hard disk.
"LR8450Vxxx.UPG" "xxx" is version number.
4. Copy the contents of the folder into the HIOKI-issued SD Card or USB Memory Stick (top-level directory).

WARNING:

The waveform data of the instrument will be cleared after the version upgrade. Also, the setting conditions may be initialized.

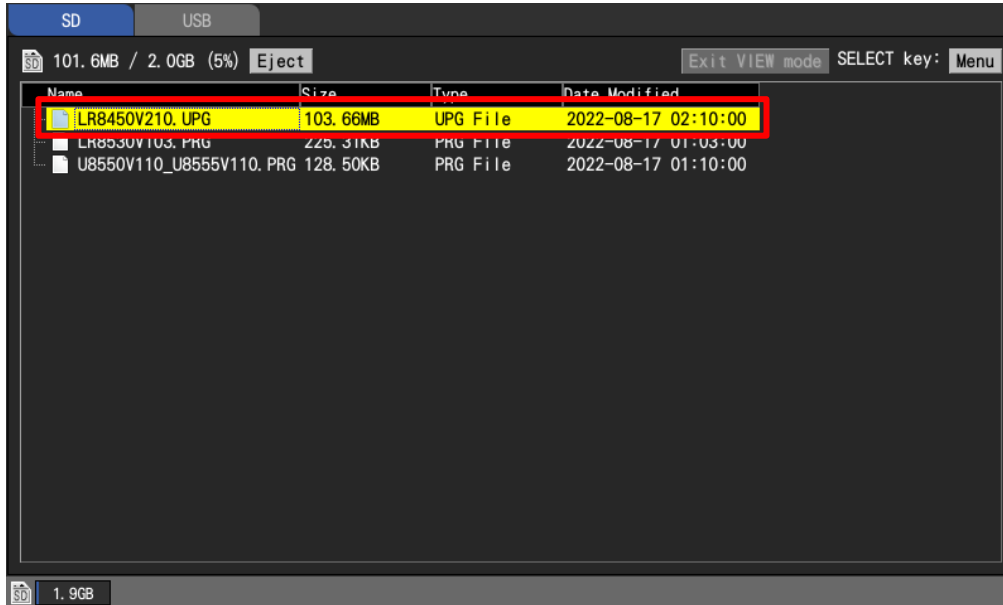
If necessary, save the data to a HIOKI-issued SD Card or USB Memory Stick.

Upgrade Procedures:

The following procedures apply to the use of a HIOKI-issued SD Card to conduct the version upgrade. The same applies when using a USB Memory Stick.

1. Insert the SD Card with the version upgrade file into the LR8450/LR8450-01's SD Card slot.
2. Press the FILE key on the instrument to display the "File" screen.

- Use the UP/DOWN keys to navigate the cursor to the version upgrade file, and press the ENTER key.



- Carefully read and understand the messages appearing on the display, and select “OK” to begin the version upgrade.

The version upgrade process will begin automatically, with the screen showing the upgrade status. Version upgrade will take approximately 5 minutes.

- It will automatically reboot after the upgrade is completed.

WARNING:

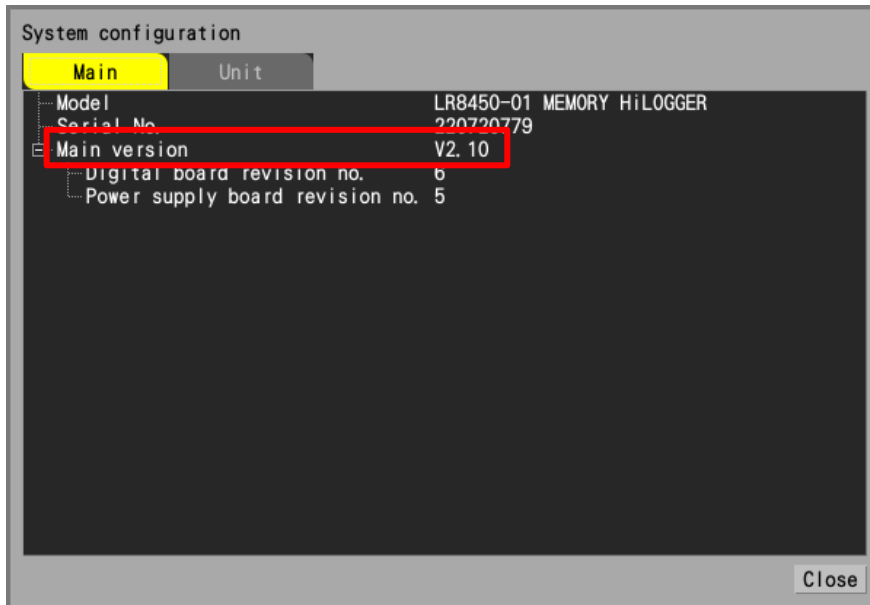
During the version upgrade process, DO NOT manually turn off the power to the instrument or remove the SD Card from the SD Card Slot. Doing so will result in failure to upgrade the instrument must be returned to the HIOKI factory for repair.

Troubleshooting

No.	Message	Solutions
WARN_FL02	Firmware update not possible due to low battery. Connect the AC adapter and try again.	Upgrading the instrument is prohibited if the battery starts to run out. Provide power to the instrument using the AC adapter or an external power supply. Alternatively, charge the battery sufficiently.

Confirmation after version upgrade

1. Press the SET key to display the "System" - "Environment" screen.
2. Select "System config..." and press the ENTER key. Make sure that the software version number displayed is correct.



3. Select "ROM/RAM..." in the "Self check" and press the ENTER key. The ROM/RAM check is executed (takes about 16 minutes).
Make sure that all results are "**Pass**".

U8550 – U8555 Plug-in Module Version Upgrade

To Begin:

1. Obtain a HIOKI-issued SD Card or USB Memory Stick.
This will be used to save the version upgrade file as well as load the file onto the LR8450/LR8450-01.
2. Download the version upgrade file from the HIOKI website.
3. Decompress the downloaded file (ZIP format) onto your PC's hard disk.
“U8550Vxxx_U8555xxx.PRG” “xxx” is version number. Same for all of U8550 to U8555.
4. Copy the contents of the folder into the HIOKI-issued SD Card or USB Memory Stick (top-level directory).

Connect plug-in modules with the instrument:

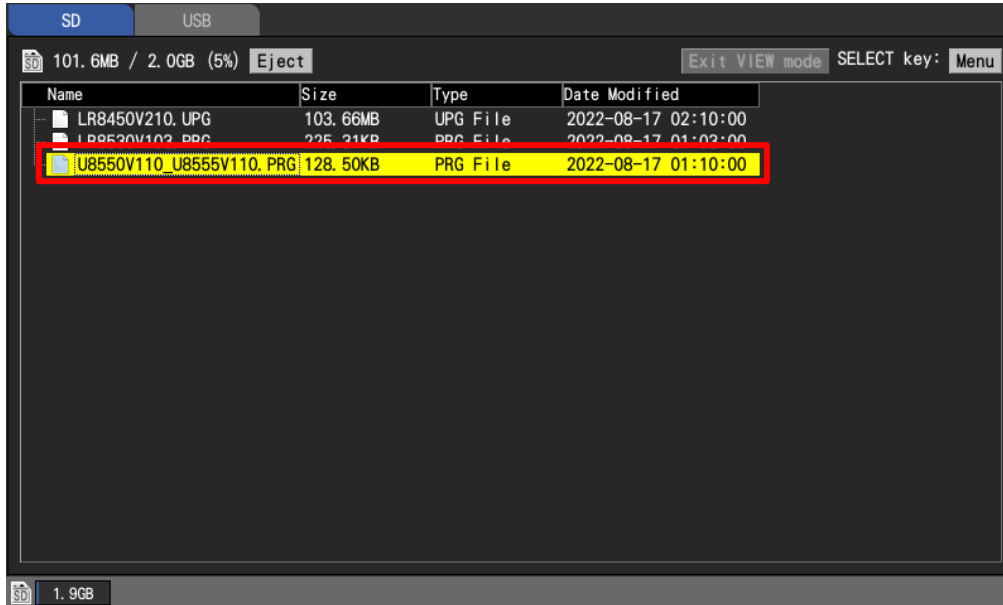
1. Connect plug-in modules to the instrument.
It's possible to connect even at most 4 and upgrade at the same time.
2. Connect an AC adapter or fully charged battery pack to the instrument.
3. Turn on the instrument.

Upgrade Procedures:

The following procedures apply to the use of a HIOKI-issued SD Card to conduct the version upgrade. The same applies when using a USB Memory Stick.

1. Insert the SD Card with the version upgrade file into the LR8450/LR8450-01's SD Card slot.
2. Press the FILE key on the instrument to display the “File” screen.

- Use the UP/DOWN keys to navigate the cursor to the version upgrade file, and press the ENTER key.



- Carefully read and understand the messages appearing on the display, and select “OK” to begin the version upgrade.

The version upgrade process will begin automatically. Version upgrade will take approximately 1 minutes.

WARNING:

During the version upgrade process, DO NOT manually turn off the power to the instrument or remove the SD Card from the SD Card Slot. Doing so will result in failure to upgrade the plug-in modules must be returned to the HIOKI factory for repair.

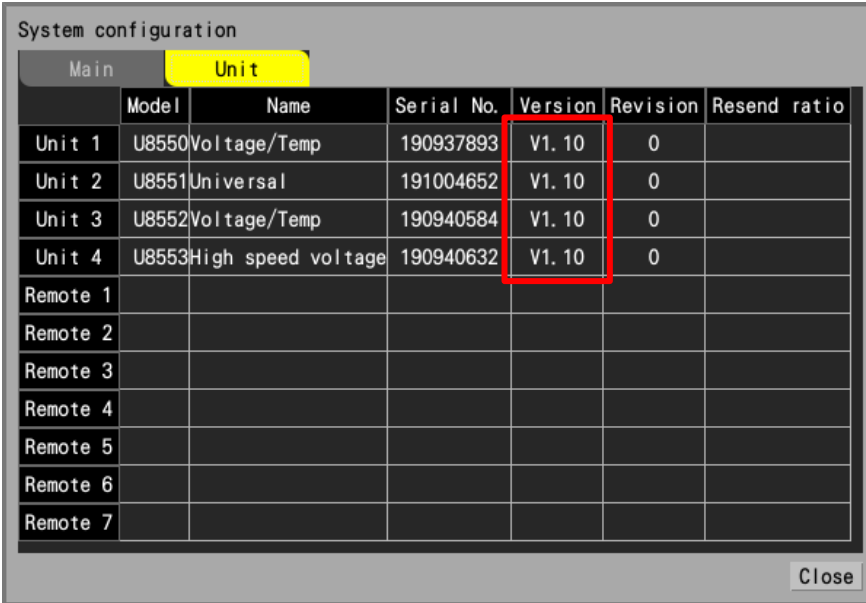
Troubleshooting

No.	Message	Solutions
WARN_FL02	Firmware update not possible due to low battery. Connect the AC adapter and try again.	Upgrading the instrument is prohibited if the battery starts to run out. Provide power to the instrument using the AC adapter or an external power supply. Alternatively, charge the battery sufficiently.

Confirmation after version upgrade

1. Press the SET key to display the "System" - "Environment" screen.
2. Select "System config..." and press the ENTER key.
3. Select "Unit" tab using the Right Arrow key.

Make sure that the software version number displayed is correct.



The screenshot shows a terminal window titled "System configuration" with two tabs: "Main" and "Unit". The "Unit" tab is selected. Below the tabs is a table with the following columns: Model, Name, Serial No., Version, Revision, and Resend ratio. The table contains data for four units and seven remote units. A red box highlights the "Version" column for Unit 1, 2, 3, and 4, which all show "V1.10".

	Model	Name	Serial No.	Version	Revision	Resend ratio
Unit 1	U8550	Voltage/Temp	190937893	V1.10	0	
Unit 2	U8551	Universal	191004652	V1.10	0	
Unit 3	U8552	Voltage/Temp	190940584	V1.10	0	
Unit 4	U8553	High speed voltage	190940632	V1.10	0	
Remote 1						
Remote 2						
Remote 3						
Remote 4						
Remote 5						
Remote 6						
Remote 7						

Close

4. Select "Unit..." in the "Self check" and press the ENTER key. The ROM/RAM check is executed.

Make sure that all results are "***Pass***".

LR8530 - LR8535 Wireless Module

Version Upgrade

To Begin:

5. Obtain a HIOKI-issued SD Card or USB Memory Stick.
This will be used to save the version upgrade file as well as load the file onto the LR8450/LR8450-01.
6. Download the version upgrade file from the HIOKI website.
7. Decompress the downloaded file (ZIP format) onto your PC's hard disk.
“LR8530Vxxx.PRG” “xxx” is version number. Same for all of LR8530 to LR8535.
8. Copy the contents of the folder into the HIOKI-issued SD Card or USB Memory Stick (top-level directory).

Register wireless modules with the instrument:

4. Place wireless modules close to the instrument.
5. Connect an AC adapter or fully charged battery pack to the instrument and wireless module.
6. Turn on both the instrument and wireless module.
7. Register wireless loggers on the UNIT screen of the instrument. For details, please refer to the instruction manual.

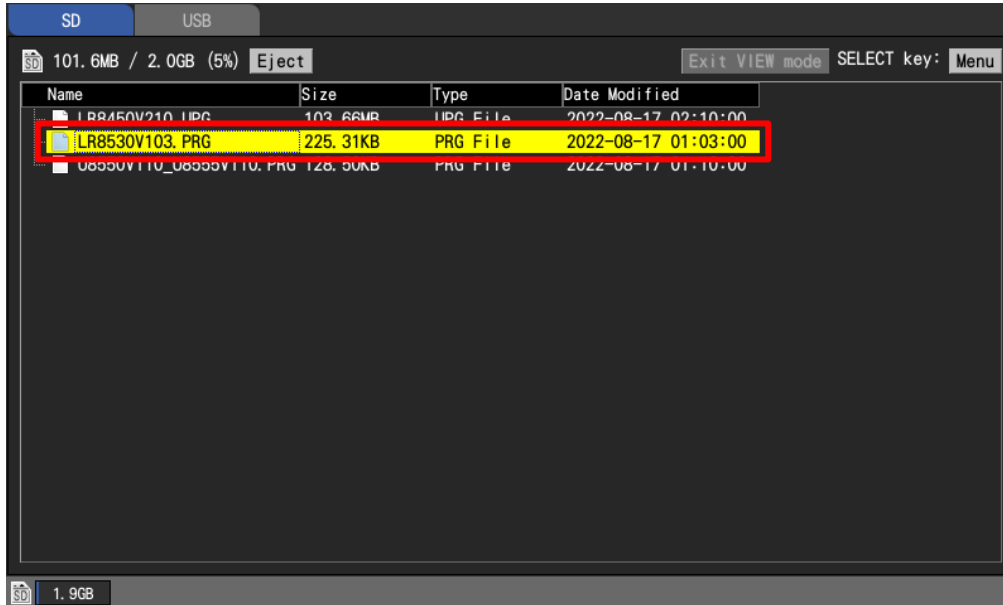
It's possible to register even at most 7 and upgrade at the same time.

Upgrade Procedures:

The following procedures apply to the use of a HIOKI-issued SD Card to conduct the version upgrade. The same applies when using a USB Memory Stick.

5. Insert the SD Card with the version upgrade file into the LR8450/LR8450-01's SD Card slot.
6. Press the FILE key on the instrument to display the “File” screen.

- Use the UP/DOWN keys to navigate the cursor to the version upgrade file, and press the ENTER key.



- Carefully read and understand the messages appearing on the display, and select “OK” to begin the version upgrade.
The version upgrade process will begin automatically. Version upgrade will take approximately 1 minutes.
- It will automatically reboot after the upgrade is completed.

WARNING:

During the version upgrade process, DO NOT manually turn off the power to the instrument and wireless modules or remove the SD Card from the SD Card Slot. Doing so will result in failure to upgrade the wireless modules must be returned to the HIOKI factory for repair.

Troubleshooting

No.	Message	Solutions
WARN_FL03	Firmware update not possible due to weak signal conditions. Improve the communication environment and try again.	Check if the wireless modules are on. Check the state of communications with the wireless modules. If the communications are disrupted, move the equipment to improve the communications state.
WARN_FL04	The firmware cannot be updated because the battery of the wireless unit is low.	Updating the instrument is prohibited if the battery of the wireless modules starts to run out.

	Connect the AC adapter and try again.	Connect the AC adapter before updating the instrument.
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Confirmation after version upgrade

5. Press the SET key to display the "System" - "Environment" screen.
6. Select "System config..." and press the ENTER key.
7. Select "Unit" tab using the Right Arrow key.

Make sure that the software version number displayed is correct.

The screenshot shows the 'System configuration' screen with the 'Unit' tab selected. A table lists various units with their respective models, names, serial numbers, and software versions. The 'Version' column for all units is highlighted with a red box, indicating that all units are running version V1.03.

	Model	Name	Serial No.	Version	Revision	Resend ratio
Unit 1						
Unit 2						
Unit 3						
Unit 4						
Remote 1	LR8530	Voltage/Temp	200337714	V1.03	1	--- % (--- %)
Remote 2	LR8531	Universal	200337741	V1.03	1	--- % (--- %)
Remote 3	LR8532	Voltage/Temp	200356225	V1.03	1	--- % (--- %)
Remote 4	LR8533	High speed voltage	200419057	V1.03	1	--- % (--- %)
Remote 5	LR8534	Strain	200419074	V1.03	1	--- % (--- %)
Remote 6	LR8535	CAN	210923437	V1.03	1	--- % (--- %)
Remote 7						

8. Select "Unit..." in the "Self check" and press the ENTER key. The ROM/RAM check is executed (takes about 1 minutes).

Make sure that all results are "*Pass*".

This completes the version upgrade procedure for Models LR8450/LR8450-01.