

LR16 SOFTWARE UPDATE PROCEDURES

In order to add functionality and / or rectify bugs, the LR16 software is updated once in a while. This document explains about the way to update the LR16 software using a USB Flash Memory. There are two kinds of softwares available on LR16. One is for the Main Unit and the other for the Controller Unit. Read through this document for correct software update.

1. Prepare a USB Flash Memory so that it can be plugged into PC / Macintosh and copy the LR16 software update file.

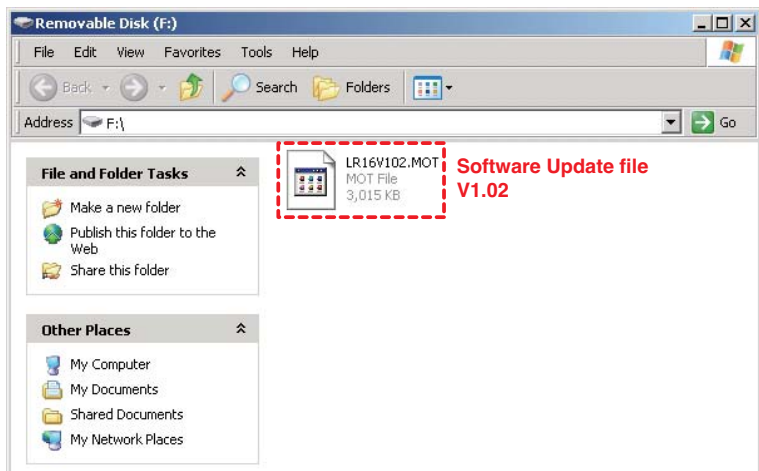
NOTE: The off-the-shelf USB Flash Memory is normally formatted by FAT16 (up to 2GB) / FAT32 (more than 2GB). Since LR16 recognizes both the FAT16 and FAT32 formatted USB Flash Memory, you do not have to reformat it on PC / Macintosh in most cases.

* Windows XP / Vista

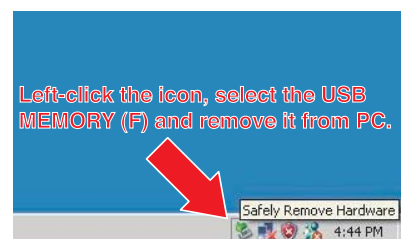
2. Plug the USB Flash Memory into the USB port of Windows XP / Vista PC. If PC correctly finds the USB Flash Memory, it will be recognized as one of the “Devices with Removable Storage” in the My Computer folder. The example on the right indicates that the USB Flash Memory is recognized as the Removable Disk (F:). Double-click the USB Flash Memory (Removable Disk (F:)) icon.



3. Extract the zip compressed software update file (e.g. LR16V102.zip) sent together with a technical bulletin. If you do so, a new software update file with the MOT extension (e.g. LR16V102.MOT) will be created. Copy the newly created software update file onto the root directory of the Removable Disk (F:) folder.

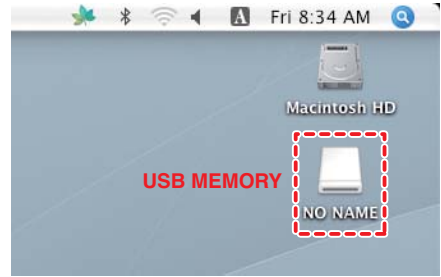


4. After transferring the software update file is completed, left-click the arrow icon (Safely Remove Hardware) in the task tray located at the lower right of Windows PC desktop, select the USB Flash Memory (Removable Disk (F:)) and remove it. Then, physically remove the USB Flash Memory from Windows XP / Vista PC. (Continue to the section 5 on the next page.)

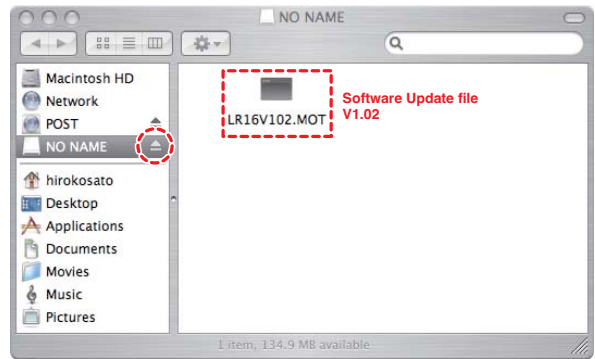


* Macintosh OS X

2. Plug the USB Flash Memory into the USB port of Macintosh OS X. If Macintosh correctly finds the USB Flash Memory, you can see the icon (the drive “NO NAME” in the example on the right) on the Macintosh desktop. Double-click the USB Flash Memory (NO NAME) icon.



3. Extract the zip compressed software update file (e.g. LR16V102.zip) sent together with a technical bulletin. If you do so, a new software update file with the MOT extension (e.g. LR16V102.MOT) will be created. Copy the newly created software update file onto the root directory of the USB Flash Memory (NO NAME) folder.



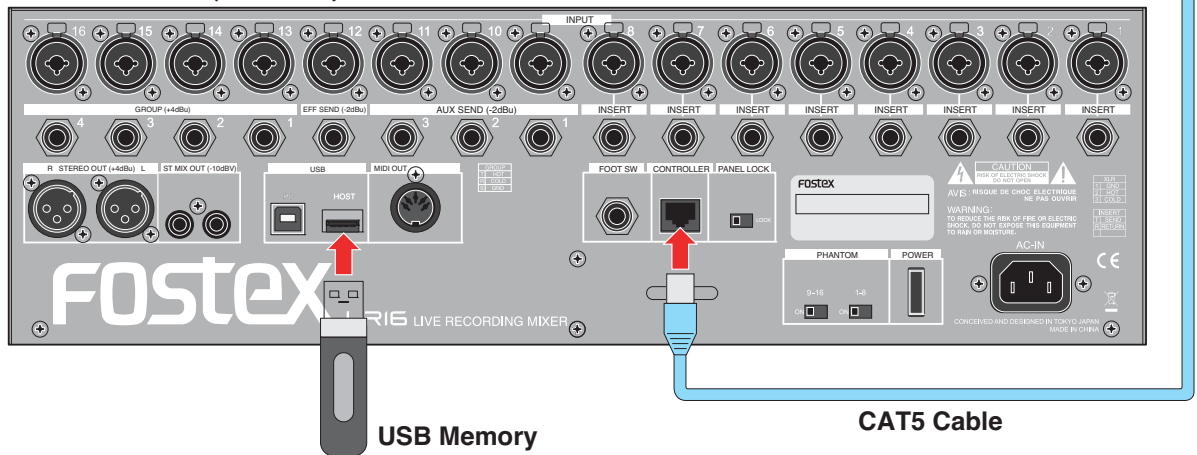
4. After transferring the file is completed, as shown in the drawing on the right, remove the USB Flash Memory (NO NAME) drive by clicking the EJECT icon located next to the NO NAME icon. Then, physically remove the USB Flash Memory from Macintosh.

5. Connect the LR16 Main Unit and the Controller Unit by the CAT-5 cable included in the LR16 package. Then, plug the USB Flash Memory with the software update file into the [USB HOST] port on the rear side of the LR16 Main Unit.

LR16 Controller Unit Rear Panel Section



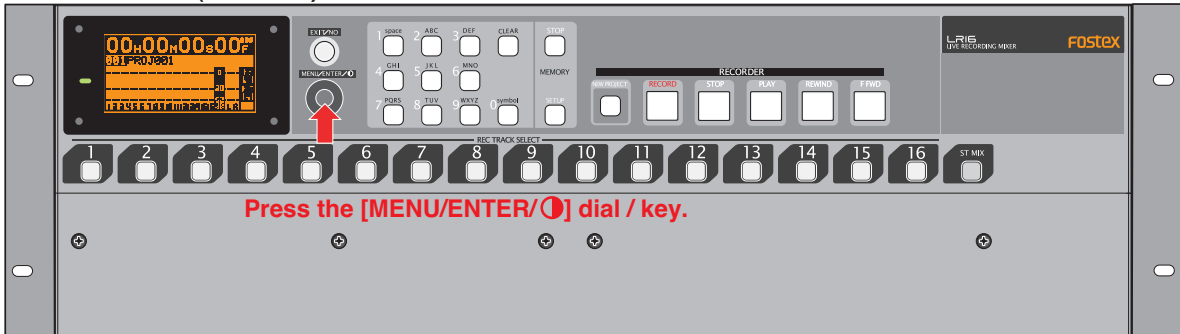
LR16 Main Unit (Recorder) Rear Panel Section



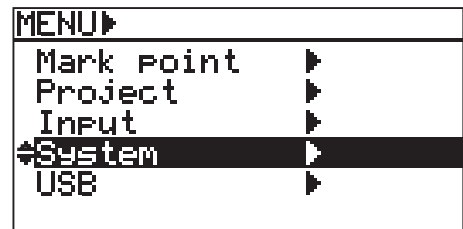
6. Power on LR16 by pressing the [POWER] switch on the Main Unit rear panel.

- Press the [MENU/ENTER/⏻] dial / key located at the right side of the LCD display on the LR16 Main Unit front panel.

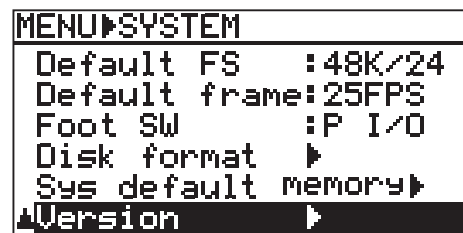
LR16 Main Unit (Recorder) Front Panel Section



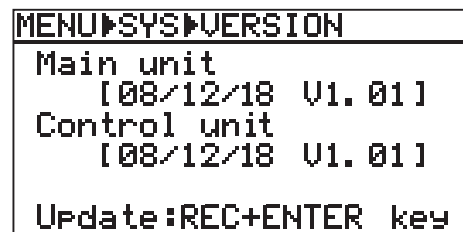
- Rotate the [MENU/ENTER/⏻] dial / key and select the “System” menu.



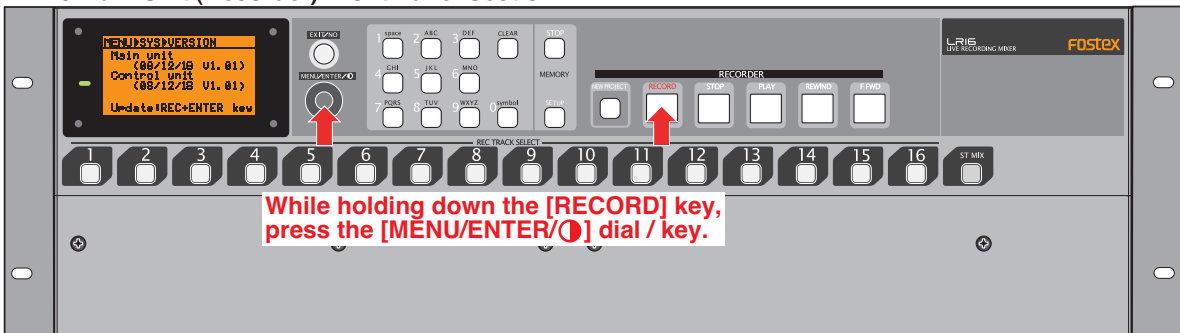
- Press the [MENU/ENTER/⏻] dial / key and select the “Version” menu.



- Press the [MENU/ENTER/⏻] dial / key. If you do so, the display on the right will appear. The display indicates that the current software version of the Main Unit is V1.01 and the one of the Controller Unit is V1.01 respectively. To go on updating the software, press the [MENU/ENTER/⏻] dial / key while holding down the [RECORD] key.

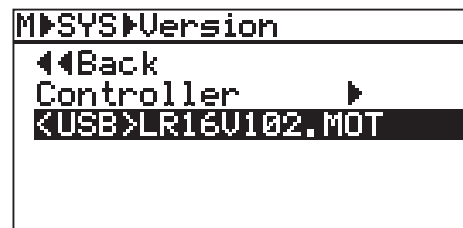


LR16 Main Unit (Recorder) Front Panel Section

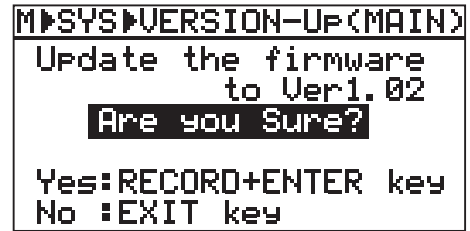


- Rotate the [MENU/ENTER/⏻] dial / key to select the “<USB>LR16V102.MOT” which is the software update file placed in the root directory of the USB Flash Memory.

NOTE: Press the [EXIT] key to go back to the previous display condition. To go back to the initial screen condition, press the [STOP] key.

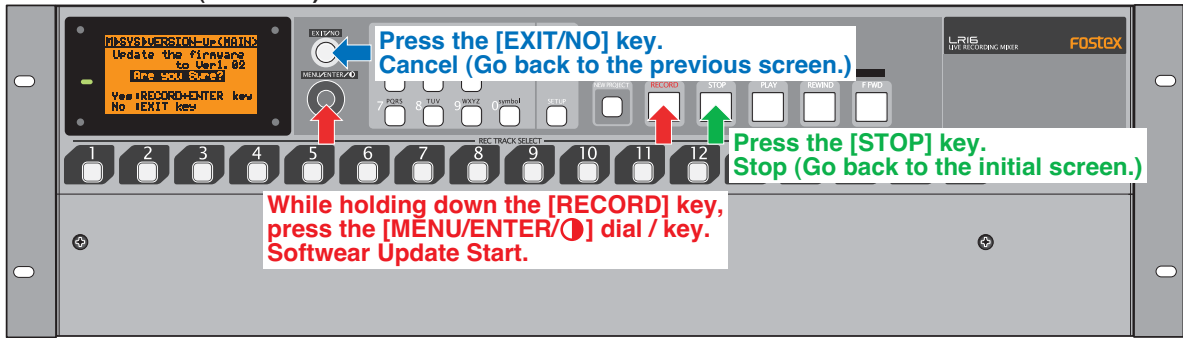


- Press the [MENU/ENTER/⏻] dial / key. If you do so, the display on the right will appear.

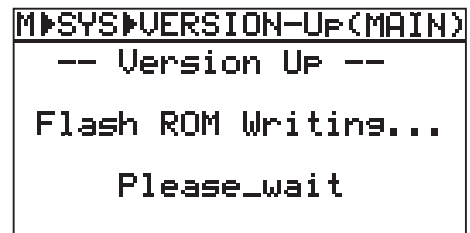


- Press the [MENU/ENTER/⏻] dial / key while holding down the [RECORD] key.

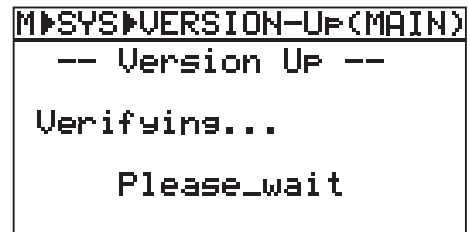
LR16 Main Unit (Recorder) Front Panel Section



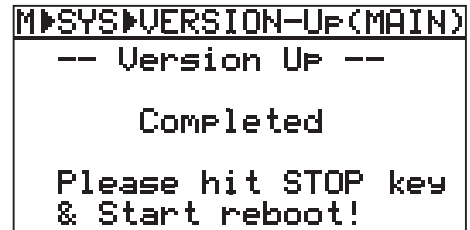
- The messages “File loading...”, “Flash ROM Erasing”, “Flash ROM Writing...” and “Verifying...” will appear in order. It takes about two minutes to display the “Completed” message. Press the [STOP] key and power off LR16. Then, disconnect the USB Flash Memory which is plugged into the [USB HOST] port on the rear side of the Main Unit.



NOTE: The software for the Controller Unit is included in the software for the Main Unit (e.g. LR16V102.MOT). Since it has already been transferred into LR16, the USB Flash Memory is no longer required.

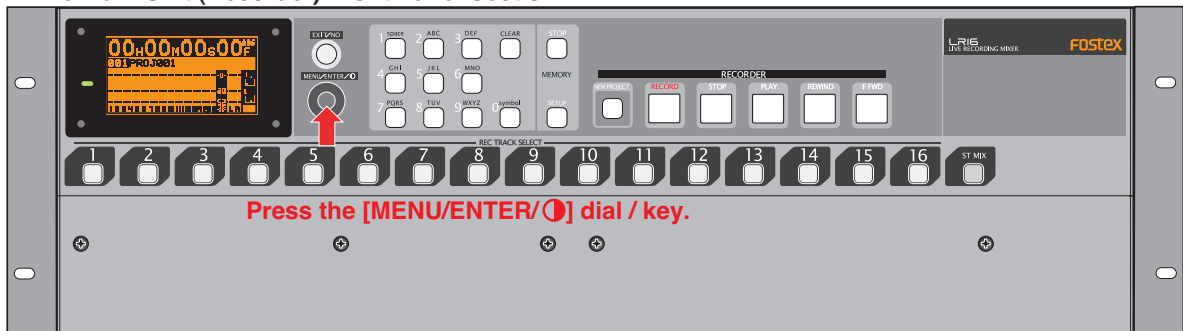


- After making sure that the Controller Unit is connected to the Main Unit via the CAT-5 cable, power on LR16 by pressing the [POWER] switch on the Main Unit rear panel.

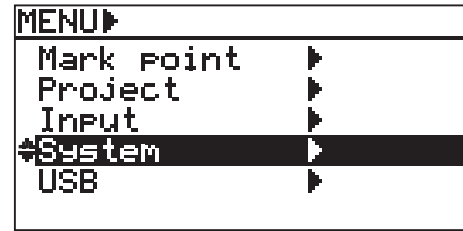


- Press the [MENU/ENTER/⏻] dial / key located at the right side of the LCD display on the LR16 Main Unit front panel.

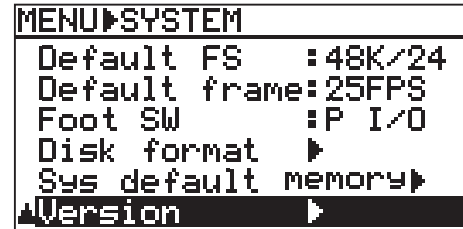
LR16 Main Unit (Recorder) Front Panel Section



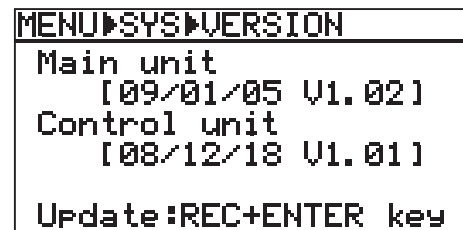
17. Rotate the [MENU/ENTER/◀] dial / key and select the “System” menu.



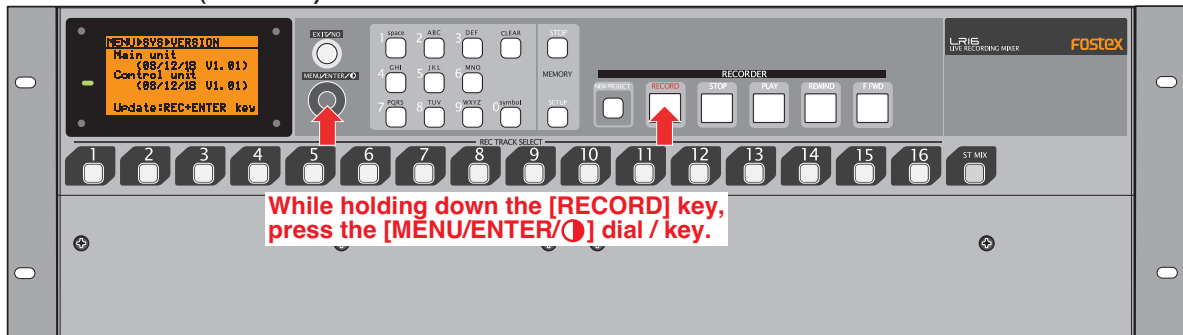
18. Press the [MENU/ENTER/◀] dial / key and select the “Version” menu.



19. Press the [MENU/ENTER/◀] dial / key. If you do so, the display on the right will appear. Confirm if the software for the Main Unit is correctly updated. To go on updating the software for the Controller Unit, press the [MENU/ENTER/◀] dial / key while holding down the [RECORD] key.



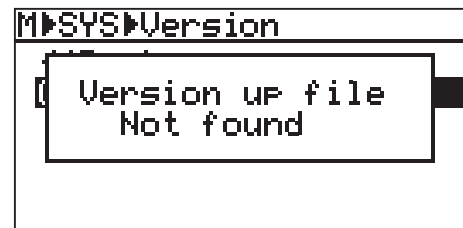
LR16 Main Unit (Recorder) Front Panel Section



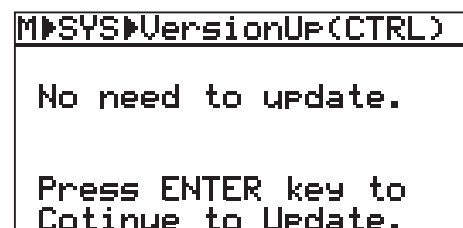
20. Rotate the [MENU/ENTER/◀] dial / key to select the “Controller”.



CAUTION 1: If the USB Flash Memory is not connected, updating the software on the Main Unit is not possible. Thus, the display example on the right appears for a short instance. However, due to the fact that the software for the Controller Unit is included in the software for the Main Unit (e.g. LR16V102.MOT), you do not have to worry about it.



CAUTION 2: If there is no need to update the software for the Controller Unit, the display example on the right will appear.



21. Press the [MENU/ENTER/⏏] dial / key. If you do so, the display on the right will appear.

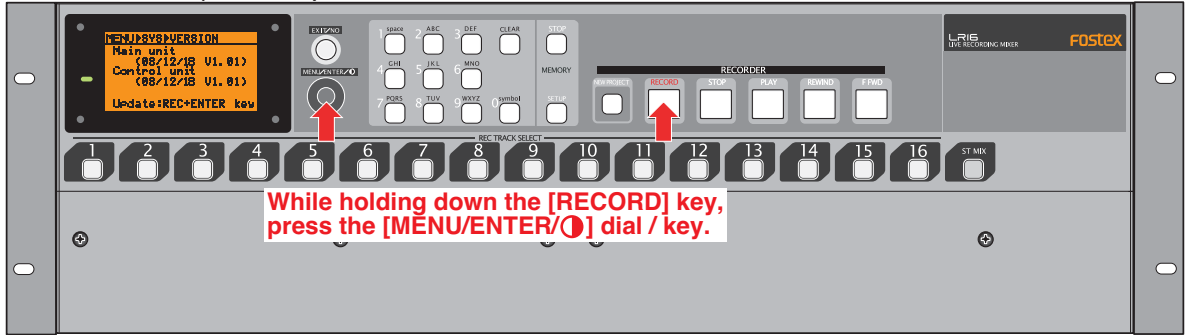
```

M▶SYS▶VERSION-UP(CTRL)
Update the firmware
to Ver1.02
Are you Sure?
Yes:RECORD+ENTER key
No :EXIT key
    
```

22. Press the [MENU/ENTER/⏏] dial / key while holding down the [RECORD] key.

NOTE: Press the [EXIT] key to go back to the previous display condition. To go back to the initial screen condition, press the [STOP] key.

LR16 Main Unit (Recorder) Front Panel Section



23. Updating the software is initiated. The 2-digit number (Done: XX%) increases up to 99%. Then, the “Completed” message appears after about thirty seconds.

```

M▶SYS▶VERSION-UP(CTRL)
-- Version Up --
Done :20%
Please_wait
    
```

Press the [STOP] key and cycle the power.

```

M▶SYS▶VERSION-UP(CTRL)
-- Version Up --
Completed
Please hit STOP key
& Start reboot!
    
```

24. Repeat the procedures 16. ~ 19. and confirm if both the Main and Controller Unit softwares have been correctly updated.

```

MENU▶SYS▶VERSION
Main unit
[09/01/05 V1.02]
Control unit
[09/01/05 V1.02]
Update:REC+ENTER key
    
```

25. After the confirmation, press the [STOP] key to go back to the initial screen.