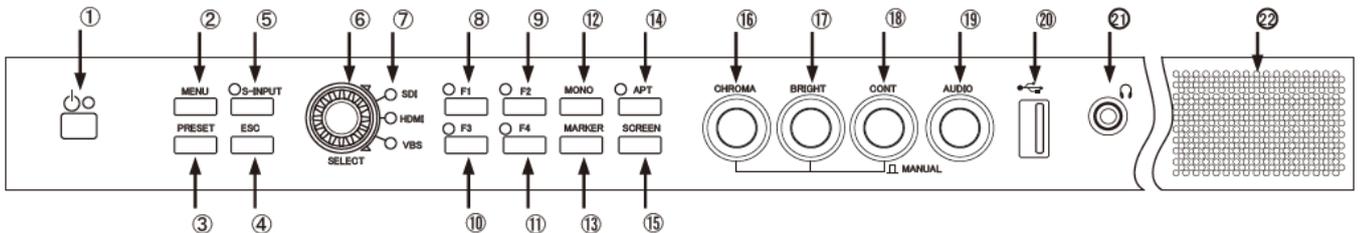# BT-LH1770 420 mm (16.5 inches) LCD Video Monitor
Firmware update procedure

1. Version display and Preparation

1-1. The version of system in the monitor is displayed in menu screen.

1. ① Press the **POWER** switch to turn on the power of monitor.

2. ② Press the **MENU** switch to display the menu screen.

3. ⑥ Operate the **Rotary Encoder** to select the item **"INFO"** in the menu.

4. See the items **"MPU VERSION"** and **"FPGA VERSION"** to confirm the version of software. (See below ⑨⑩.)

Menu			
INPUT	<INFO.>		
VIDEO	FORMAT	* * * * * * * * *	①
AUDIO	PRODUCT NAME	BT-LH1770	②
TC/WFM/VSC	▶ PRESET FILE	D65	③
MARKER	▶ BACKLIGHT DIM	* *	④
CAPTURE	▶ FUNCTION1 MODE	WFM ON	⑤
UTILITY	▶ FUNCTION2 MODE	TC ON	⑥
FUNC.SW	▶ FUNCTION3 MODE	MIX TEST	⑦
P.REMOTE	▶ FUNCTION4 MODE	VSC ON	⑧
UMD/IMD	MPU VERSION	* * . * *	⑨
USB MEMORY	FPGA VERSION	* * . * *	⑩
NETWORK	WORKING TIME	* * H	⑪
RESET	FAN TIME	* * H	⑫
INFO	RETURN		
EXIT			

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1-2. Preparation

CAUTION : Before Updating Software
<u>Do not draw out the inserted USB memory until the writing has been completed.</u>
If drawn out during access, the device may get damaged.
- The USB memory use USB memory formatted in FAT 32.
- The USB cannot use USB memory with the security software.

< Copy the update file >
1. Accept the software usage agreement and download the update file data (zip file) for the BT-LH1770 firmware from the following support web site.
   http://pro-av.panasonic.net/en/   Service and Support

2. Copy the zip file to hard disk of your PC and extract the files.
   MPU FIRMWARE   :1770vxxx.bin
   FPGA   :60__fxxx.flb
   (Three letters "xxx" will be replaced with the version number.)

3. Insert the formatted USB memory into the PC's USB terminal.
   Copy the extracted files to the root directory(*1) of the USB memory.
   (**MPU FIRMWARE**, **FPGA   If there are two, both of them.**)

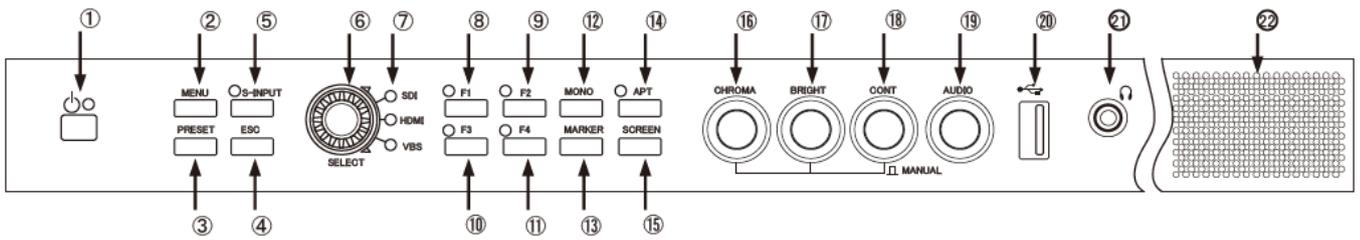   For example, if the USB memory is on D¥drive, the files will show as follows on it.
   D:¥ 1770vxxx.bin
   D:¥ 60__fxxx.flb

   (*1): Root directory = top-level directory of the file structure.

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2. Update procedure

1. ① Press the **POWER** switch to turn on the power of monitor.

2. ② Press the **MENU** switch to display the menu screen.

3. ⑥ Operate the **Rotary Encoder** to select the item **"USB MEMORY"** in the menu.

4. ⑥ Operate the Rotary Encoder to tick the check box for **MPU FIRMWARE**.

   If necessary, when tick the **FPGA**'s box to update simultaneously with FPGA.

```
<USB MEMORY>
SETTING DATE&TIME
  ▶DATE(Y/M/D)      17 / 01 / 01
  ▶TIME(H:M)        00 : 00
CONFIG
  ▶MENU&SW          □
  ▶USER MARKER      □
  ▶PRESET           □
SAVE CONFIG         EXECUTE
LOAD CONFIG         EXECUTE
UP DATE
  ▶MPU FIRMWARE     ☑
  ▶FPGA             ☑
  ▶UP DATE          EXECUTE
RETURN
```

Tick the check box (□) for MPU item.

It can be updated simultaneously with FPGA.

5. ⑳ Insert the USB memory that was prepared at step 1-2 to the **USB terminal** of front of the monitor.

6. ⑥ Select "**EXECUTE**" then **press the Rotary Encoder.**
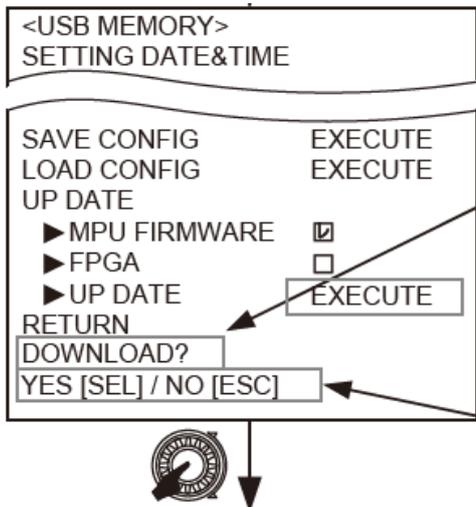
```
<USB MEMORY>
SETTING DATE&TIME

SAVE CONFIG         EXECUTE
LOAD CONFIG         EXECUTE
UP DATE
  ▶MPU FIRMWARE     ☑
  ▶FPGA             □
  ▶UP DATE          EXECUTE
RETURN
```
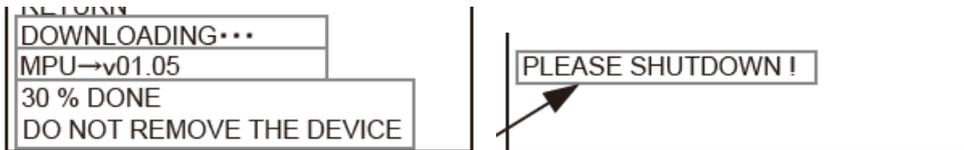
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7. The message "**DOWNLOAD OK?**" is displayed.

① Press the **Rotary Encoder** to execute.

① Press the ESC switch to interrupt updating if some error occur.
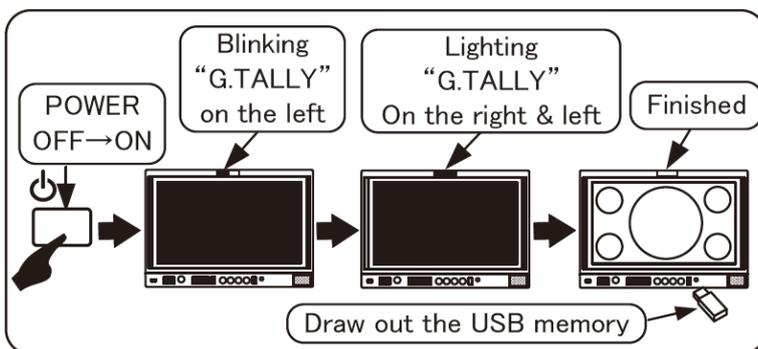
(Refer to the description of page 5.)

8. When downloading finish, the message "**PLEASE SHUTDOWN!**" is displayed.

9. ① Operating the **POWER** switch to turn OFF and then to turn ON.

If the **FPGA only** is updated, the monitor is rebooted and then an image appears.
If the **MPU FIRMWARE** is updated, the monitor is rebooted and then the TALLY lamps brink or light as below.
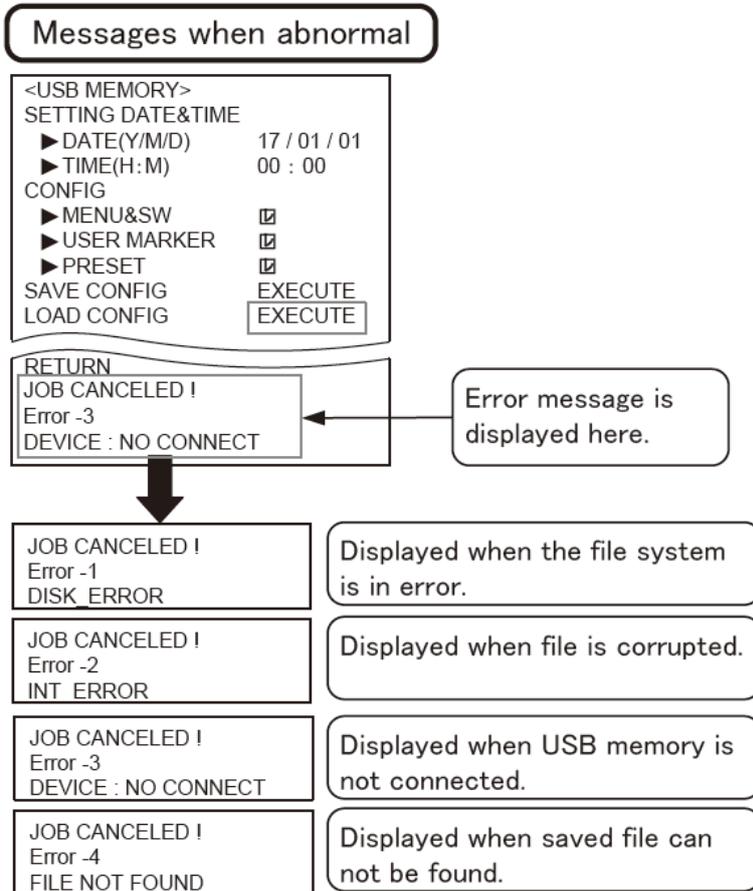Then an image appears.

The update is complete. Draw out the USB memory.

10. Open the **MENU "INFO"** to confirm the version of software according as step 1-1.

3. Trouble shooting

- ④ Press the **ESC** switch when the following error message appear during downloading.

Messages when abnormal

```
<USB MEMORY>
SETTING DATE&TIME
  ▶DATE(Y/M/D)     17 / 01 / 01
  ▶TIME(H:M)       00 : 00
CONFIG
  ▶MENU&SW         ☑
  ▶USER MARKER     ☑
  ▶PRESET          ☑
SAVE CONFIG        EXECUTE
LOAD CONFIG        EXECUTE
```

```
RETURN
JOB CANCELED !
Error -3
DEVICE : NO CONNECT
```
→ Error message is displayed here.

```
JOB CANCELED !
Error -1
DISK_ERROR
```
Displayed when the file system is in error.

```
JOB CANCELED !
Error -2
INT_ERROR
```
Displayed when file is corrupted.

```
JOB CANCELED !
Error -3
DEVICE : NO CONNECT
```
Displayed when USB memory is not connected.

```
JOB CANCELED !
Error -4
FILE NOT FOUND
```
Displayed when saved file can not be found.

- If it is turned OFF during rebooting or during TALLY light, operate as the following.

  While pressing both **F1 and F3** switches(⑧⑩), press the **POWER** switch to turn ON.(①)

  Continue to press both F1 and F3 switch until the **G.TALLY turn on a light.**

While pressing
both F1 and F3
POWER ON

O F1
O F3 + ⏻