

## 6. Adjustment

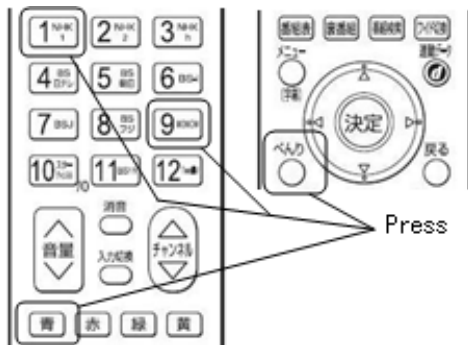
### 6.1 White Balance Adjustment

Approximately 2 hours should be allowed for warm up before proceeding white balance adjustment.

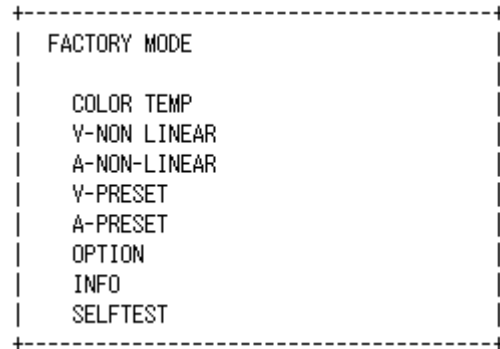
Before White balance adjustment, you must set the color analyzer CA210.

#### 6.1.1 Calibration

1. Receive XGA 60Hz 100% white signal by PC input.
2. Select PC input by R/C Input Select button.
3. Enter FACTORY MODE by R/C [べんり][青][9][1][1][1] (as picture 1, picture 2)



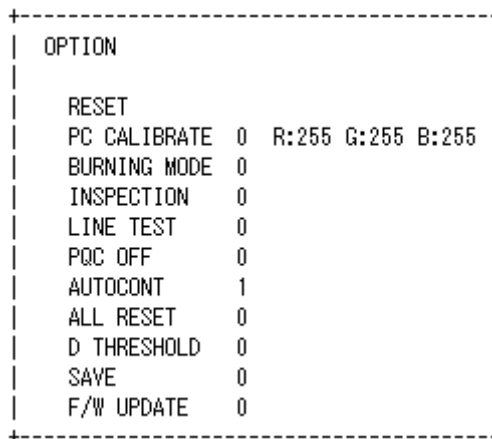
Picture 1 Remote Controller



Picture 2 FACTORY MODE Menu

4. Choose "OPTION" by R/C [上 / 下] button.

Then press R/C [決定] button. -> Enter to OPTION menu. (as picture 3)



Picture 3 OPTION Menu

5. Choose "PC CALIBRATE" by R/C [上 / 下] button.

Then press R/C [右] button. -> Value changes 0 to 1 (red letter).

Then press R/C [決定]. -> PC CALIBRATE executed, and value returns to 0.

6. Press R/C [もどる] -> Return to FACTORY MODE menu.

#### 6.1.2 Color Temperature Adjustment

1. Set picture mode "スーパー" by Menu.

- 1.1 Exit FATORY MODE by [メニュー] button.

- 1.2 Enter the "トップメニュー" by R/C [メニュー] button. Then forward to "映像設定" - "画質設定". ("画質設定" menu indicated.)

- 1.3 Confirm that "対象コンテンツ" is set to "共通".

- 1.4 Set "映像モード" to "スーパー". Then exit "トップメニュー" by [メニュー] button.

- 1.5 Re-enter FACTORY MODE. (see 6.1.1 item 3.)

## L22-H03B/ L22-H03W

2. Choose "PQCOFF" by R/C [上 / 下] button. Then choose value "1" by R/C [左 / 右] button, then press [決定].
3. Choose "SAVE" by R/C [上 / 下] button. Then choose value "1" by R/C [左 / 右] button, then press [決定]. (After this, value returns to "0" automatically.)
4. Return to "FACTORY MODE" by R/C [もどる] button. Then choose "COLOR TEMP" by R/C [上 / 下] button. (Enter COLOR TEMP menu.)

COLOR TEMP	
SOURCE	HDMI 1
TEMP	HI
R GAIN	1024
G GAIN	1024
B GAIN	1024
R OFFSET	0
G OFFSET	0
B OFFSET	0
R RAWOFS	0
G RAWOFS	0
B RAWOFS	0
SAVE	

**Picture 4 COLOR TEMP Menu**

### 5. Color Temp. adjustment (HI)

5.1 Choose "TEMP" by R/C [上 / 下] button. Then choose value "HI" by R/C [左 / 右] button, then press [決定].

5.2 Input signal from specified terminal as shown below.

Input	Signal setting	Terminal
PC	XGA (1024*768), 60Hz, 80% All white pattern	PC input
Component	720p, 60Hz, 80% All white pattern	Video1 D
HDMI	1080i, 60Hz, 80% All white pattern	HDMI1
Video	NTSC-J, 60Hz, 80% All white pattern	Video1 V

**Table 1 Signal setting for adjustment of Color temperature**

5.3 Choose "SOURCE" by R/C [上 / 下] button. Then choose the input from

the Input names (see below) in "SOURCE" by R/C [左 / 右] button.

- Input names: PC (to adjust PC input)
- D (to adjust Component input)
- HDMI1 (to adjust HDMI input)
- CVBS1 (to adjust Video input)

Input names indicated by red letters.

Then press R/C [決定] button. -> Change to selected input.

5.4 Adjust Color temperature of HI.

Do not change B GAIN (keep the value 1024), change R GAIN and G GAIN, to meet the specified x and y value:

$$x = 0.266 \pm 0.005, y = 0.270 \pm 0.005.$$

5.5 After adjusting, write down the R GAIN, G GAIN, B GAIN value to paper as memo. Then calculate Gb and Bb as shown below

$$R_b = [R \text{ GAIN}] / [R/GAIN] * 1024 = 1024 \text{ (Always)}$$

$$G_b = [G \text{ GAIN}] / [R/GAIN] * 1024 = \text{ \_\_\_\_ } \text{ (Calculated)}$$

## L22-H03B/ L22-H03W

$$Bb = [B \text{ GAIN}] / [R/\text{GAIN}] * 1024 = \underline{\hspace{2cm}} \text{ (Calculated)}$$

5.6 Change R GAIN value to Rb, G GAIN value to Gb, B GAIN value to Bb.

5.7 To adjust color temp of another input, change input name and input signal, then repeat 5.1 to 5.6.

6. Set picture mode "スタンダード" by Menu.

6.1 Exit FATORY MODE by [メニュー] button.

6.2 Enter the "トップメニュー" by R/C [メニュー] button. Then forward to "映像設定" - "画質設定". ("画質設定" menu indicated.)

6.3 Confirm that "対象コンテンツ" is set to "共通".

6.4 Set "映像モード" to "スタンダード". Then exit "トップメニュー" by [メニュー] button.

6.5 Re-enter FACTORY MODE. (see 6.1.1 item 3.)

7. Color Temp. adjustment (MID)

7.1 Choose "TEMP" by R/C [上 / 下] button. Then choose value "MID" by R/C [左 / 右] button, then press [決定].

7.2 Input signal from specified terminal as shown in 5.2.

7.3 Choose "SOURCE" by R/C [上 / 下] button. Then choose the input from the input names in "SOURCE" by R/C [左 / 右] button. Then press R/C [決定] button. -> Change to selected input.

7.4 Adjust Color temperature of MID.

Do not change R GAIN (keep the value 1024), change G GAIN and B GAIN, to meet the specified x and y value:

$$x = 0.285 \pm 0.005, y = 0.293 \pm 0.005.$$

7.5 To adjust color temp of another input, change input name and input signal, then repeat 7.1 to 7.4.

8. Color Temp. adjustment (LOW)

8.1 Choose "TEMP" by R/C [上 / 下] button. Then choose value "LOW" by R/C [左 / 右] button, then press [決定].

8.2 Input signal from specified terminal as shown in 5.2.

8.3 Choose "SOURCE" by R/C [上 / 下] button. Then choose the input from the input names in "SOURCE" by R/C [左 / 右] button. Then press R/C [決定] button. -> Change to selected input.

8.4 Adjust Color temperature of LOW.

Do not change R GAIN (keep the value 1024), change G GAIN and B GAIN, to meet the specified x and y value:

$$x = 0.314 \pm 0.005, y = 0.316 \pm 0.005.$$

8.5 To adjust color temp of another input, change input name and input signal, then repeat 8.1 to 8.3.

9. Choose "SAVE" by R/C [上 / 下] button. Then choose value "1" by R/C [左 / 右] button, then press [決定].

(After this, value returns to "0" automatically.)

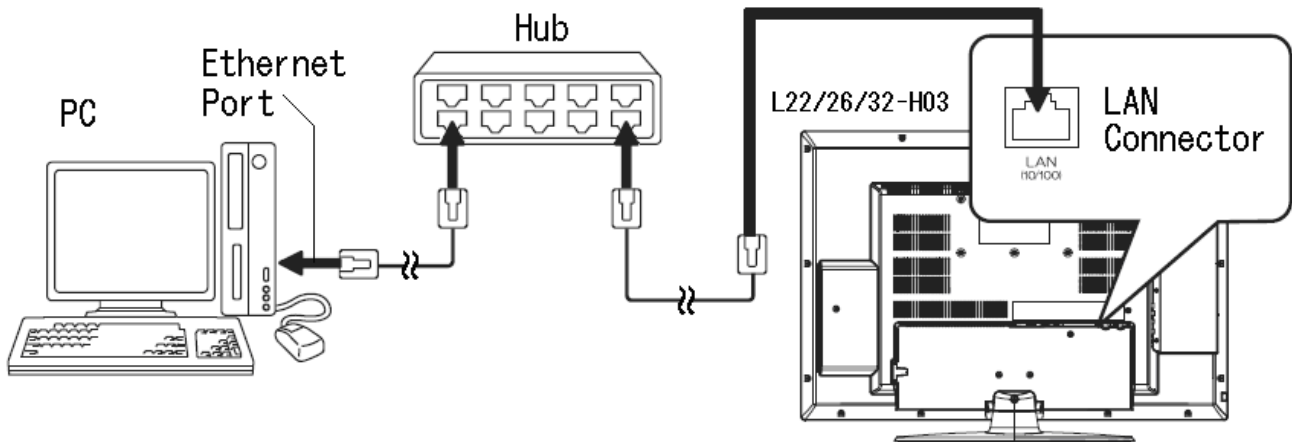
10. Choose "PQCOFF" by R/C [上 / 下] button. Then choose value "0" by R/C [左 / 右] button, then press [決定].

## 6.2 Firmware update

### 1. Preparation (as picture 5)

- 1) Connect to 1 port of Hub from Ethernet port of PC with Ethernet cable(straight type).
- 2) Connect to another port of Hub from LAN connector of L22/26/32-H03 with Ethernet cable (straight type).

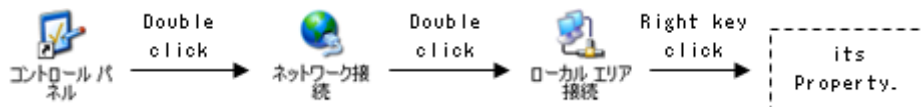
**Caution:** Do not connect other PC.



Picture 5 How to Setup (example)

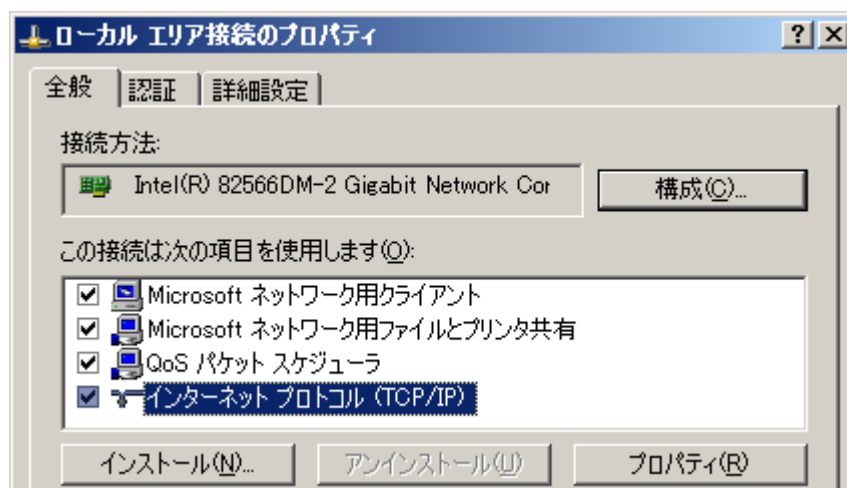
### 2. Settings

- 1) If the update tool "Boisclair updater window" is not installed, install it. ( Please see Page17)
- 2) Open the "Control Panel" - "Network" - "Local Area Network", and open its Property. (as picture 6)



Picture 6 Open Property

- 3) Choose "Internet Protocol" and open its Property as shown below.

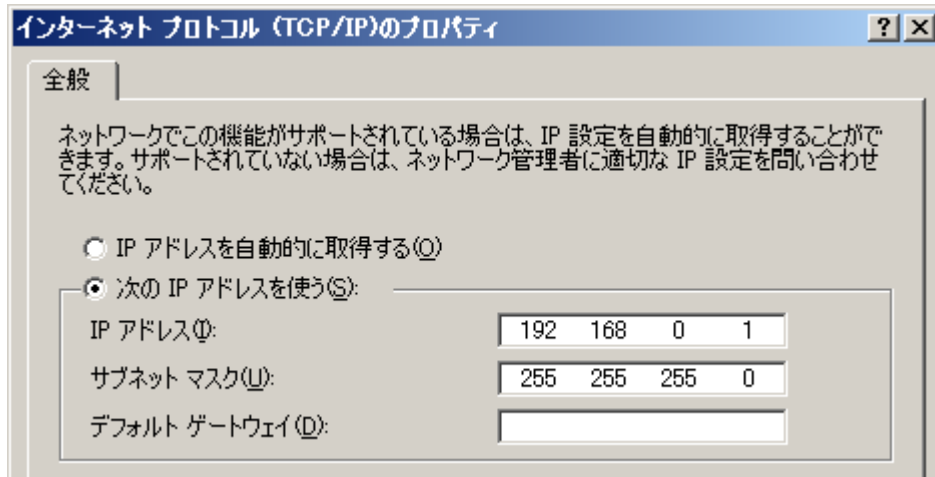


Picture 7 Property

- 4) Set IP address and Subnet mask as below;

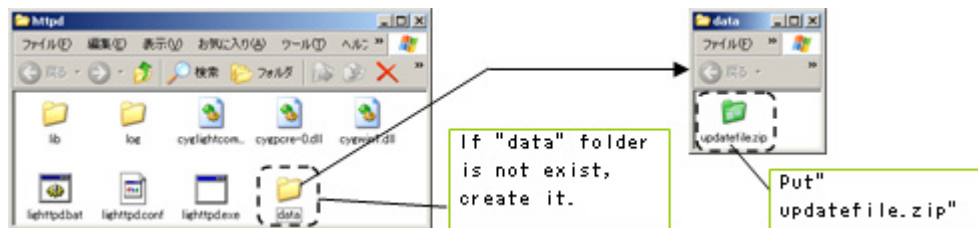
**IP address:** 192.168.0.1

**Subnet mask:** 255.255.255.0



Picture 8 Internet protocol (TCP/IP) setting

5) Put "updatefile.zip"(datas for FW update) into "FirmUpdateTool\_XXX\httpd\data". (as picture 9)



Picture 9

**Note:** To avoid the data damage of "updatefile.zip" file, it is recommended that once delete the previous "updatefile.zip" file, then put new "updatefile.zip" file.

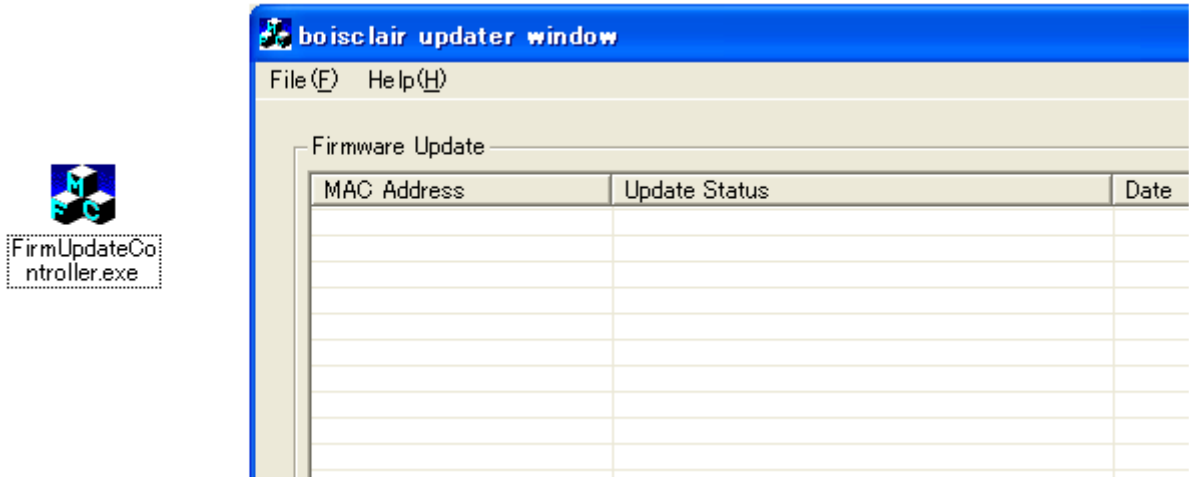
6) Other PC setting

- ① Disable "system standby" and "HardDisk power off".
- ② Disable "screen saver".

**3. Execute FW Update**

- 1) Start PC.
- 2) Turn on TV
- 3) Execute FirmUpdateTool.exe

When Windows firewall is valid, the dialog is displayed at the first start, click in "Unblock", then "boisclair updatер window" is displayed.

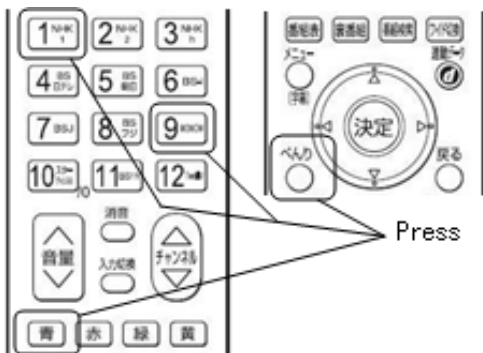


**Picture 10 FirmUpdateTool.exe Icon and Update Tool Image**

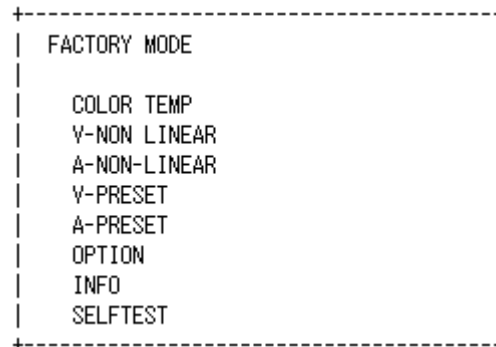
**In case that "boisclair updatер window isn't displayed, Please confirm as shown below.**

- Please confirm that Hub is turned on, and Link indicator of Hub blinks.
- Please confirm that PC network setting is correct.
- Please confirm that the Hub is connected to PC and TV correctly and firmly.
- Please confirm that "updatefile.zip" exists in the folder "FirmUpdateTool\_XXX\http\data".
- Please confirm that other network applications (ex. Skype, MSN, etc) aren't working.
- If not improved, please use other PCs and try again.

4) Enter FACTORY MODE by R/C [べんり][青][1][1][1][9]



**Picture 11 Remote Controller**



**Picture 12 FACTORY MODE Menu**

5) Choose "OPTION" by R/C [上 / 下] button.

Then press R/C [決定] button. -> Enter to OPTION menu.

## L22-H03B/ L22-H03W

OPTION			
RESET			
PC CALIBRATE	0	R:255	G:255 B:255
BURNING MODE	0		
INSPECTION	0		
LINE TEST	0		
PQC OFF	0		
AUTOCONT	1		
ALL RESET	0		
D THRESHOLD	0		
SAVE	0		
F/W UPDATE	0		

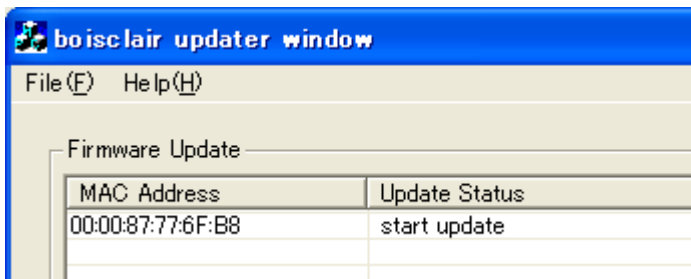
Picture 13 OPTION Menu

6) Choose "F/W UPDATE" by R/C [上 / 下] button.

Then press R/C [右] button. -> Value changes 0 to 1 (red letter).

Then press R/C [決定]. -> F/W UPDATE started.

7) "Start update" message displayed on boisclair updater window.



"start update"  
figure here

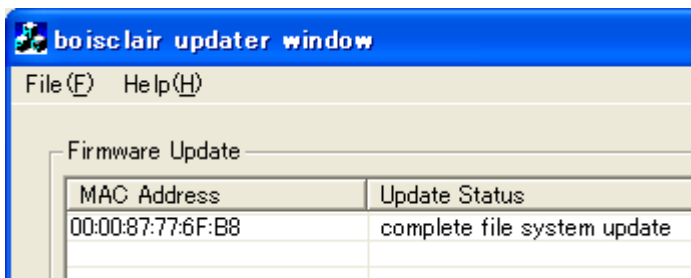
Picture 14 "start update"

In case that "start update" comment not displayed.

- Please confirm that the Hub controller is connected to Main Board with Ethernet cable correctly and firmly.

- Please confirm that PC network setting is correct.

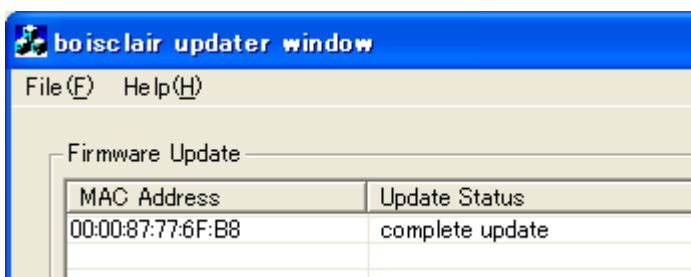
8) After a few minutes, "complete file system update" message displayed.



"complete file system update"  
figure here

Picture 15 "complete file system update"

9) After "complete update" message displayed, please turn main power switch off TV, and close "boisclair updater window". -> FW update has finished.



"complete update"  
figure here

Picture 16 "complete update"

## L22-H03B/ L22-H03W

**In case that after 10 minutes "complete file system update" or "complete update" message not displayed.**

- Please confirm that Hub is turned on, and Link indicator of Hub blinks. If not, please close "boisclair updater window" and repeat from Item 3.

10) Disconnect the Ethernet cable from TV, then turn Main power switch off.

**In case that "failed file system update" message displayed.**

- There is some possibility that updatefile.zip is broken. Close "boisclair updater window", and repeat from Item 5.

### 4. Confirm F/W Version

1) Just after F/W updated, after turn Main power switch on, "はじめて設定" is displayed. Follow the steps to exit "はじめて設定" as shown below.

(1) "STEP 1 はじめて設定を行います" is indicated. Confirm "次へ" is high light, then press [決定] button.

(2) "STEP 2 お住まいの地方 / 都道府県域の選択" is indicated. Press R/C [右] button, confirm [次へ] is high light, then press [決定] button.

(3) "STEP 3 チャンネル設定方法の選択 (地上アナログ放送)" is indicated. Press R/C [上 / 下] button, confirm "自動設定" is high light, then press R/C [決定] button.

(4) "STEP 5 リモコンボタン割り当て (地上アナログ放送)" is indicated. Press R/C [右] Confirm "次へ" is high light, then press R/C [決定] button.

(5) "STEP 6 地上デジタル放送の設定" is indicated. Press R/C [上 / 下] button, confirm "いいえ" is high light, then press R/C [決定] button.

(6) "地上デジタル放送を視聴する場合は、各種設定から地上デジタル 放送の設定を行ってください" is indicated. Confirm "次へ" is high light, then press R/C [決定] button.

(7) "STEP 10 B S/C S デジタル放送のコンバーター電源を設定します" is indicated. Press R/C [右] Confirm "次へ" is high light, then press R/C [決定] button.

(8) "STEP 11 郵便番号の設定" is indicated. Press R/C [下] Confirm "次へ" is high light, then press R/C [決定] button.

(9) "STEP 12 電話回線テスト" is indicated. Press R/C [上 / 下] button, confirm "いいえ" is high light, then press R/C [決定] button.

(10) "STEP 13 はじめて設定完了" is indicated. Confirm "設定完了" is high light, then press R/C [決定] button.

(11) TV starts in Terrestrial Analog TV mode.

2) Confirm F/W version by following as shown below.

(1) Press R/C "メニュー" button, then "トップメニュー" is displayed. Forward [その他機器設定] - [機器情報表示].

Then confirm the F/W version indicated near [ソフトウェアバージョン] indication.



(2) Press R/C "メニューボタン", then exit F/W version confirmation.



## L22-H03B/ L22-H03W

### 5. Execute All Reset.

- 1) Enter FACTORY MODE by R/C [べんり][青][1][1][1][9]
- 2) Choose "OPTION" by R/C [上 / 下] button. Then press R/C [決定] button. -> Enter to OPTION menu.
- 3) Choose "ALL RESET" by R/C [上 / 下] button. Then press R/C [右] button. -> Value changes 0 to 1 (red letter). Then press R/C [決定]. -> ALL RESET executed, then TV re-starts and "はじめて設定" is displayed.
- 4) Turn R/C power off, then turn Main power switch off.

### \* How to install firmware update tool.

1. Put the "FirmUpdateTool\_xxx.zip" into the optional folder. (The name and root pass of this folder don't include Chinese characters or Japanese characters, named with only alphabet.)
2. Decompress "FirmUpdateTool\_xxx.zip" into the optional folder. "FirmUpdateTool\_xxx" folder is created.
3. Confirm the folders and file are exist in the "FirmUpdateTool\_xxx" folder  
Folders: dhcpd, httpd, log  
File: FirmUpdateController.exe

