Sony Corporation   No.   HDCM17-004R2-TN

Technical News

Issued   February 14, 2017

Revised   April 24, 2017

Subject: Software Release[AT Software: V3.00]

[Applicable Model]

Model / Destination	Serial Number	Number of Unit
HDC1700 CED		
HDC1700 E33		
HDC1700 JN4		
HDC1700 SYL		
HDC2000 CED		
HDC2000 J4		
HDC2000 JN3		
HDC2000 SY3		
HDC2100 J4		
HDC2400 CED		
HDC2400 E33		
HDC2400 JN4		
HDC2400 SYL		
HDC2500 CED		
HDC2500 E33		
HDC2500 JN4		
HDC2500 SYL		
HDC2550 CED		
HDC2550 UC7		
HDC2570 CED		
HDC2570 UC7		
HDC2580 CNB		
HDC2600 J4		
HKC-FB20 SYL		
HKC-TR20 SYM		
HKC-TR27 SYM		
HKC-WL20 SYM		

(Rev.2) Add the note to upgrade PLD data for the CD-73 board in advance before upgrading CAMERA APP to V3.00.

[Description]

Upgrade the Firmware of CCU and PLD for each board of HDC2000 series CAMERA by referring to the procedure below when the HKCU2040 (4K/HDR PROCESSOR BOARD) option kit is installed to CCU of HDCU2000 series.

Additionally, the new function of the HKCU2040 would not be properly functioned without upgrading the CCU / control panel / adaptor to be connected.
Upgrade the units to be connected by referring to the technical news below.

- HDCM17-003
- HDCM17-005

[Change Point]

<New Features>
1. HKCU2040 is supported. (HDC2000/2500/1700)
   4K/59.94P and 4K/50P output are added by installing HKCU2040 (4K/HDR PROCESSOR BOARD) to HDCU2000 series.
   - 4K/HDR mode is added to the transfer mode between Camera and CCU.
   - Function to switch CAM MODE is added.
      4K/HDR: 1080P(4K) transmission format can be selected, but the SD signal cannot be output from camera.
      NORMAL: 1080P(4K) transmission format cannot be selected, but the SD output can be output from camera.

2. RETURN BUFFER extension mode is added.
   The mode to extend the buffer for the return signal is added so that the shock of the image at switching the image between CAM and RET would not be appeared although the return signal delays up to 8H.

3. F drop compensation function is added.
   The function to compensate the F drop of the lens is added. To use this function, the adjustment is necessary for each lens. As for the details, refer to the < How to adjust F drop compensation> below.

4. BOX CURSOR FILE function is added.
   The BOX CURSOR can be saved to the camera up to 5 sets. It can be also saved to the USB memory.

<Error Correction>
1. CAM LINK of HDVF-EL30 is supported.
2. The ALAC setting of HDC2100/2600 (with FIT) is corrected.
3. The VF, SD output setting of HDC2100/2600 (with FIT) is corrected.
4. The VF setting for 720P(2x) is corrected.
5. The phase of Frame Synchro for HD Trunk is changed.
6. The indication of the Return value of the iris is corrected.
7. The Payload ID of SDI-MONI is corrected.
8. The RET3 SW of the serial lens is supported.
9. The operation of VF DTL LEVEL by the rotary encoder on DISP indication is enabled.
10. The check of the expiration date of the software with the term of validity is changed.

The error that the software key disappears when the built-in battery runs out is corrected.
The installation cannot be performed since the key is ineffective unless the correct date is set in DATE page key.
When using the software key with the term of validity, confirm the date setting.

11. The AWB is added to the function for the assignable SW.

[Preparation]

<Software Files>
File name:
  hdc2000_app.pkg   - Software file
  hdc2000_dpr1.pkg   - PLD data 1 for DPR-338 board
  hdc2000_dpr1.pkg   - PLD data 3 for DPR-338 board
  hdc2000_sdi.pkg   - PLD data for SDI-109 board
  hdc2000_tr.pkg   - PLD data for TR-146 board (for HDC2550/HKC-TR20)
  hdc2000_if.pkg   - PLD data IF-1203 for board (for HKC-WL20)
  hdc2000_cd.pkg   - PLD data for CD-73 board (for HDC2570/HKC-TR27)
  * Please contact to your local Sony's service office for obtaining the software files.

<Others>
USB memory, 1 piece

[Installation Procedure]

As for the procedure, refer to the MAINTENANCE MANUAL.

<Note> (Rev.2)
If the CAMERA APP is upgraded to V3.00 in advance, the PLD data for the CD-73 board cannot be upgraded. Therefore, upgrade the PLD data for the CD-73 board in advance.

[Confirmation/Adjustment]

Confirm the each version on CAMERA menu, DIAGNOSIS – <ROM VERSION>(D3) page.
    CAMERA APP V3.00 (Change target)
    TG   V1.00 FIT * HDC2600/2100
    TG   V2.00 IT   * HDC2500, etc.
    SY   V3.03
    DPR1 V2.41 (Change target)
    DPR2 V1.20
    DPR3 V3.04 (Newly added)
    SDI   V2.41 (Change target)
    TR   V2.41 * HDC2550/HKC-TR20 (Change target)
    IF   V2.40 * HKC-WL20 (Change target)
    CD   V1.02 * HDC2570/HKC-TR27 (Change target)

[How to use New Feature]

<How to adjust F drop compensation>
  Perform the adjustment from camera menu or MSU/RCP. It is located in the [MAINTENANCE] > [LENS] > [F DROP COMP] of the camera menu.
  1. Set "F DROP COMP" to ON and "ROUNDNESS" to 0 dB.
  2. Adjust the MAX GAIN so that the level at TELE end would be the same as the one at WIDE end when the iris is opened.
  3. Move the zoom position slightly from TELE end to WIDE end, adjust the DROP POINT so that the level at that position would be the same as the one at TELE end.

4. Find the zoom positon where the level is the lowest by moving the zoom position between TELE end and WIDE end, and adjust the ROUNDNESS so that the level at that position would be the same WIDE end and TELE end.

The setting is saved to the lens file. After adjustment, store the lens file.

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<LENS>                          MO6 TOP

 F NO.DISP   : CONTROL
 AF DISPLAY  : OFF

 ALAC          : AUTO(WAIT)

 F DROP COMP:   ON       0.0dB
  MAX GAIN   :→   0.0dB
  DROP POINT:   50
  ROUNDNESS :    0.0dB
     STORE  LENS  FILE
```