

[ Confidential ]

Sony IP&S Inc.

No.     HDCM17-081                      LSPN17-038

Technical Memo

Class    [3]                      Issued : February 6, 2018

**Subject:   Software Release [V1.40]**

[Applicable Model ]

Model / Destination	Serial Number	Number of Unit
HDCU4300 SY3		
HDCU4300 SYL		

**[Description]**

The updated version of HDCU4300 is released. (V1.30 => V1.40)

Upgrade the software in the unit as necessary.

In case of upgrading, upgrade the firmware and the PLD of each board by referring to the procedure below. Additionally, upgrade the peripheral unit as necessary by referring to the related technical memos.

■ Recommended software version

- HDC4300: V1.50
- HDC-P43: V1.20
- MSU-1000/1500, RCP-1500/1501/1530: V3.20

(Related technical memo)

- HDCM17-079 (HDC4300)
- HDCM17-080 (HDC-P43)
- HDCM17-085 (RCP-1500/1501/1530)
- HDCM17-086 (MSU-1000/1500)

**[Change Point]**

<Added function>

1. Auto output function of unit information for the installation of the option software to the USB media is supported.  
It would be enabled after ULMS (Upgrade and License Management Suite) site is supported.
2. At LIVE-HDR operation, HLG\_Live is added to the option of OETF.
3. HDR White Clip function is supported.
4. Normal speed output in 720P mode of 4K/HFR outputs system (SLOT1) is supported.
5. OETF information to Payload ID of SLOT1-1 output is reflected.

<Operation change>

1. The name of COLOR SPACE setting item is changed (WIDE /NORMAL -> BT.2020/BT.709 )
2. 4K 59.94Hz, 50Hz Interlace output in default condition becomes disabled.  
(In SERVICE MENU > OTHERS > 4K INTERLACE OUTPUT, interlace output can be enabled.)
3. At startup, BARS On/Off operation is supported although the camera is not connected.

<Error correction>

1. The error that the reference file is not reflected in the video by turning the power of camera to off and on is corrected.
2. The error of the polarity of D-Sub Preview output is corrected.
3. The error that LowKeySaturation and BlackGamma become OFF when HDR Y Knee is turned to ON is corrected.
4. The error that Master Black cannot be saved in reference file is corrected.
5. The error that MixRatio and KneeApt of HD Detail are not save items for the reference file is corrected.
6. The error that the caution does not appear when CCU light reception level cannot be obtained is corrected.
7. The error that Network LED does not blink when releasing the forced legacy mode is corrected.
8. The error that Network Error may be displayed when CNA-1 is switched to Master is corrected.
9. The delay of Return image at Frame synchro ON is improved.
10. The error that high luminance portions is saturated at KneeSaturationON is corrected.
11. The error that the level gate was displayed in different area from setting value is corrected.

12. The error that LevelDepend setting of Detail is not reflected is corrected.
13. The noise that occurs on Embedded Audio of 3G-SDI Level-A depending on the connected device is corrected.
14. (When attaching HKCU-IP43F) The error that ALARM JUMP function does not work is corrected.
15. (When attaching HKCU-IP43F) The error that the device could not respond when the unit is being launched more than 150 days with enabling the SNMP is corrected
16. (When attaching HKCU-IP43F) The error that the unit cannot be connected to the LSM any longer depending on the timing of turning off the power of the unit after the setting the address of the LSM (described in the HDCM17-048) is corrected.

### [Preparation]

<Update data files>

File name: hdcu4300\_v1.40.zip

\* Obtain it from Software Download site.

The files below can be obtained by extracting hdcu4300\_v1.40.zip.

hdcu4300_app.pkg	Software file
hdcu4300_4kpost.pkg	DVP-67 board 4K-POST PLD data
hdcu4300_vif.pkg	VIF-60 board VIF PLD data
NMI-LSI-FIRM_1.4.2.7.encrypted.web.zip	NMI-LSI software data

<Others>

USB memory x1

### [Upgrading Procedure]

Upgrade the software using a USB memory. For the work procedure, refer to the MAINTENANCE MANUAL.

<Note>

If upgrading of NMI cannot be finished within 15 minutes, turn off the power, then turn it on again so that upgrading would be resumed.

### [Confirmation after Version Update]

Display the CCU MENU - <DIAGNOSIS> - <VERSION1> (D03) page, and check that the versions of the updated software and PLD are as shown in the table below.

Table 1: Updated versions

Item	Version
APPLICATION	V1.40 2017/12/22
OS	V1.10 2016/05/25
UPDATER	V1.10 2016/05/25
MIF	V1.11
VIF	V1.20
TX	V3.20
4K-POST	V1.30
SDP	V1.21
DEC(HDC4300)	V1.00
DPR(NORMAL)	V1.00
DPR(HCO)	V2.00

NET	V1.02 *
NMI LSI	V1.4.2_07 *

\* When HKCU-IP43F is installed

### [Supplement]

There is a limitation below by combining with CNU-700.

When CCU Format is 4K and 4K DTL of the Detail selection of the panel is not selected, the adjusted data for the camera is not reflected to the DATA page of CNU-700.

KNEE, APT, DTL LEVEL, DTL LIMITER, DTL CRISP

### [Software History]

	V1.03 Initial release	V1.04 HDCM16- 012	V1.05 HDCM 16-020	V1.11 HDCM 16-030	V1.21 HDCM16- 076	V1.22	V1.30 HDCM17- 036
APPLICATION	V1.03	V1.04	V1.05	V1.11	V1.21	V1.22	V1.30
OS	V1.00	←	←	V1.10	←	←	←
UPDATER	V1.00	←	←	V1.10	←	←	←
MIF	V1.00	←	←	V1.10	←	V1.11	←
VIF	V1.03	←	←	V1.11	V1.12	V1.13	V1.14
TX	V3.00	←	←	←	V3.11	←	V3.20
SY	V1.00	←	←	←	←	←	←
4K-POST	V1.00	←	←	V1.10	V1.23	←	←
SDP	V1.00	←	←	V1.10	V1.21	←	←
DEC(HDC4300)	V1.00	←	←	←	←	←	←
DPR	V1.00	←	←	←	←	←	←
DPR(HCO)	--	--	--	--	V2.00	←	←
NET	--	--	--	V1.00	V1.02	←	←
NMI LSI	--	--	--	--	V1.4.1_02	←	V1.4.2_06

	V1.40 HDCM17- 081
APPLICATION	V1.40
OS	←
UPDATER	←
MIF	←
VIF	V1.20
TX	←
SY	←
4K-POST	V1.30
SDP	←
DEC(HDC4300)	←
DPR	←
DPR(HCO)	←
NET	←
NMI LSI	V1.4.2_07