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Sony Corporation

No. HDCM17-003R2-TN

Technical News

Issued : February 14, 2017

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Subject: Software Release [AT Software: V3.01]

[Applicable Model]

Model / Destination	Serial Number	Number of Unit
HDCU1700 CED		
HDCU1700 SY3		
HDCU1700 SYL		
HDCU2000 CED		
HDCU2000 E2		
HDCU2000 E3		
HDCU2000 J2		
HDCU2000 UC5		
HDCU2080 CNB		
HDCU2500 CED		
HDCU2500 SY3		
HDCU2500 SYL		
HDCU2580 CNB		
HKCU2007 SY		

(Rev.2) Add the BPU4000/4500 to the related information. The version information of SDP-PLD is updated.

[Description]

Upgrade the Firmware of CCU and PLD for each board 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 camera / control panel / adaptor / BPU to be connected. (Rev.2)

~~As for the detail of the versions of the units to be connected, refer to the latest maintenance manual of the HDCU2000 series.~~

Upgrade the unit to be connected by referring to the related information below. (Rev.2)

When connecting the BPU4000/4500 which are not upgraded and CCU equipped with HKCU2040, the malfunction that output format of BPU is unintentionally changed occurs at changing the format of CCU.

Upgrade BPU4000 to V3.41 or higher, and also upgrade BPU4500 to V1.41 or higher. (Rev.2)

(Related information)

- HDCM17-004 (HDC2000 Series) (Rev.2)
- HDCM17-021 (RCP-1500/1501/1530) (Rev.2)
- HDCM17-022 (MSU-1000/1500) (Rev.2)
- HDCM17-005 (HDTX200) (Rev.2)
- HDCM17-034 (BPU4000) (Rev.2)
- HDCM17-035 (BPU4500) (Rev.2)

[Change Point]

<New Features>

1. HKCU2040 is supported (HDCU2000/2500 only).
 - * As for the support by HDCU1700 and HDR function will be released in April.
 - 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.
 - 4K output format 2SI/SQD becomes selectable.
 - The switching between BT.709 and BT2020 is enabled.
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.

<Error Correction>

The error that the SD output image may become abnormal in rare occasion when the power is turned on is corrected.

[Preparation]

<Software File>

Version update of the software and the PLDs are required.

File name	Update target	Version
hdcu2000.rom	Software	V3.01
E-000-005-26-15	PLD (SDP-17)	V3.01 V3.02 (Rev.2)
E-000-005-28-11	PLD (DTX-9)	V2.41
E-000-005-29-11	PLD (DRX-9)	V3.037

* Please contact to your local Sony's service office for obtaining the software files.

* Software tool to upgrade PLD

DLT_v35.exe Software tool to upgrade PLD

DLT30_install.pdf DLT_v35 install guide (Japanese)

DLT30_install_E.pdf DLT_v35 install guide (English)

As for obtaining the software tool, refer to HDCM12-041.

<Memory stick>

The software version upgrade is executed using a memory stick. Prepare a memory stick of the following types.

The memory stick that has already been used for other applications can also be used if it has blank capacity of 2 MB or more.

- MSA-8AN (8MB)
- MSA-16AN (16MB)
- MSA-32AN (32MB)
- MSA-64AN (64MB)

Create the following directory in a memory stick, and copy hdcu2000.rom.

Enter the directory name with upper-case letters.

Because of the display on Microsoft Windows system, be careful that only the top character is displayed in upper case, and the remaining characters are displayed in the lower case characters.

\MSSONY\PRO\CAMERA\HDCU2000 (Enter all in upper case)

<Tool to upgrade PLD>

- Personal computer

OS: Windows 2000/XP, with USB port

The above software tool to upgrade the PLD must be installed in advance.

- PLD download tool (cable) Part. No J-7120-220-A

[Installation Procedure]

< Software >

1. Turn off the power of HDCU2000/2500/2080/2580/1700.
2. Insert the memory stick in which the version upgrade data is copied in the specified directory, into the memory stick connector of the AT-167 board.
3. Set the switch S401 (the switch located in the top) at the end of the AT-167 board to the "SD" position.
4. Set the switch S402 (the switch located in the bottom) at the end of the AT-167 board to the "ADV" position. While keeping their respective positions with hands, turn on the power of the HDCU2000/2500/2080/2580/1700.
5. When the Memory Stick Access LED has changed from the red to green light, release your hand from switch S402.
6. After the green LED of the MAIN-POWER of the HDCU2000/2500/2080/2580/1700 keeps blinking for about 15 seconds, it turns on.
7. Return the switch S401 position from "SD" position to the original position.
8. Turn off the power once and turn it back on. The system will boot up with the new software.

<PLD>

Write the data to PLD of each board by referring to the section 1-13 of the service manual.

- Note

- *1 The PLD internal data on the SDP-17 board is written or rewritten via the CN3/AVP-15 board.
 Rewrite the data with the e-Production tool with switch S1-8 on the AVP-15 board turned on.
 After it is rewritten, return switch S1-8 on the AVP-15 board to off.

[Confirmation/Adjustment]

<Confirming the software version>

Check the ROM version at the CHARACTER output or the MONITOR output.

ROM Version		
CHU		
CCU	HDCU2000	
	3.01	17.01.18

<Confirming the PLD version>

Check the PLD version at the CHARACTER output or the MONITOR output.

Versions in this Technical News

Firmware V3.01 (Change target)

PLD AT-167 V4.12

AVP-15 V1.11

SDP-17 ~~V3.01~~ V3.02 (Change target) (HDCM17-042) (Rev.2)

DTX-9 V2.41 (Change target)

DRX-9 V3.037 (Change target)

RC-105 V2.30