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Sony Corporation

No. HDCM14-010R2-TN

Technical News

Issued : February 7, 2014

Revised : May 19, 2014

Subject: Software Release (AT soft : V2.00)

[Applicable Model]

Model / Destination	Serial Number	Number of Unit
HDCU1700 CED		
HDCU1700 SY3	30017	
HDCU1700 SYL	10465	
HDCU2000 CED	40162	
HDCU2000 E2		
HDCU2000 E3		
HDCU2000 J2	30165	
HDCU2000 UC5	10671	
HDCU2080 CNB	50598	
HDCU2500 CED		
HDCU2500 SY3	30166	
HDCU2500 SYL	10758	

(Rev.2) The information of SDP-PLD is deleted.

[Description]

V2.00 is released for adding functions to HDCU2000/2500/2080/1700. Perform the version upgrade as necessary.

[Change Point]

<New function>

1. Support of the 3G-SDI Level A output
Not only the conventional Level B, but Level A can now be set with the main wire output and RETURN signal.
2. Addition of the Moving Symbol function
The moving symbol in the Color Bar signal can now be superimposed.
3. Support of 3G transmission for HDCU1700
3G transmission is made possible by installing the HKCU2007.
4. Format Warning function
A warning message is displayed when an unusable format is selected.

<Function correction>

1. Menu improvement
 - <PROMPT/TRUNK> is grouped and split into 3 pages considering the relevance of the items.
C10 <PROMPT/TRUNK 1>, C11<PROMPT/TRUNK 2>, C19<TRANSMIT>
 - The board settings are separated from the C17 <OTHERS> as the <BOARD SETUP>.
2. Corrected the Status Display "INTERCOM" display
Improvement was made on the displayed item and layout.
3. Payload ID switching function improvement
LATEST (2011) is added as a default in the selection item.
(LATEST is selected normally, but individual setting is possible when required.)
4. RET-to-RET switching improvement
A mode to make the switching at the time of the HD-SDI signal smooth is added.
5. Improvement of the Network Trunk function
A mode making possible to simultaneously use the Network and the HD Trunk is added.
6. GENLOCK improvement (Only AT-167 suffix -15, or higher) (Rev.1)
Stability is enhanced by changing the synchronizing separation IC.

<Error correction>

1. Delay correction when the RETURN FRAME SYNCHRO is ON
The delay for 2 frames when the 24 PsF is set is corrected to 1 frame.
2. MONI output correction for the HDCU1700 + HKCU2007 construction

[Preparation]

[Software Files]

Version update of the software and PLD is required.

File name	Update target	Version
hdcu2000.rom	Software	V2.00
E-000-001-93-23	PLD (AT-167)	V4.10 (Suffix-15 or higher)
E-000-001-93-23	PLD (AT-167)	V4.10
E-000-005-26-06	PLD (SDP-17)	V2.00 (*)
E-000-005-28-07	PLD (DTX-9)	V2.00
E-000-005-29-06	PLD (DRX-9)	V2.00
E-000-005-30-06	PLD (RC-105)	V2.00

Rev.2
Refer to HDCM14-020.

* Software tool for the PLD upgrade

DLT_v35.exe Software tool for PLD version update
DLT30_install_E.pdf DLT_v35 Install Guide (English)

* To obtain the software file and software tool, please contact your local Sony's service office.

<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)

<PLD upgrade tool>

- Personal computer
 - OS: Windows 2000/XP, with USB port
 - Above software tool for version update is already installed
- PLD download tool (cable) Part No. J-7120-220-A

[Installation Procedure]

< Software >

1. Turn off the power to HDCU2000/2500/2080/1700
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 HDCU2000/2500/2080/1700.
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 HDCU2000/2500/2080/1700 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 data into PLD of each board following the Service Manual Chapter 1-13.

- Caution

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.
(On this page, the names of the ROMs are displayed on the screen regardless of the model names.
Therefore, the ROM name “HDCU2000” is displayed for HDCU2500 also.

ROM Version	
CHU	
CCU	HDCU2000
2.00	13.12.25

<Confirming the PLD version>

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

Versions in this Technical News

- Firmware V2.00 (Change target)
- PLD AT-167 V4.00 (Suffix-14 or lower)
- AT-167 V4.10 (Suffix-15 or higher)
- ~~SDP-17 V2.00 (Change target)~~
- AVP-15 V1.11
- DTX-9 V2.00 (Change target)
- DRX-9 V2.00 (Change target)
- RC-105 V2.00 (Change target)

Rev.2
Refer to HDCM14-020.