

[ Internal Use Only ]

Sony Corporation

No. HDVM08-072R2-TN

# Technical News

Issued : June 12, 2008

Revised : September 10, 2010

## Subject: HDCU1000 series, Software Version Upgrade [V1.20]

Applicable Model(s) (Destination)	Serial Number(s)	Number of Unit(s)
HDCU1000//ULCED	400001 - 400247	247
HDCU1000//ULCED	410001 - 410243	243
HDCU1000/L CED	40001 - 40013	13
HDCU1000/L J2	32001 - 32009	9
HDCU1000/L UC5	10001 - 10060	60
HDCU1000/L1 CED	41001 - 41085	85
HDCU1000/L1 J2	32031 - 32036	6
HDCU1000/L1 UC5	11001 - 11112	112
HDCU1000/L2 CED	42001 - 42008	8
HDCU1000/L2 CED	42011 - 42125	115
HDCU1000/L2 J2	34001 - 34003	3
HDCU1000/L2 J2	34014 - 34015	2
HDCU1000/L2 J2	34026 - 34030	5
HDCU1000/L2 UC5	12001 - 12453	453
HDCU1000/L2 UC5	13001 - 13183	183
HDCU1000/L3 UC5	14001 - 14625	625
HDCU1000/T J2	30001 - 30035	35
HDCU1000/T1 J2	31001 - 31020	20
HDCU1000/T2 J2	32001 - 32030	30
HDCU1000/T2 J2	32037 - 32056	20
HDCU1000/T2 J2	33001 - 33102	102
HDCU1000/T3 J2	34004 - 34013	10
HDCU1000/T3 J2	34016 - 34025	10
HDCU1080/L CNB	50001 - 50075	75
HDCU1080/L1 CNB	51001 - 51022	22
HDCU1080/L1 CNB	51039 - 51058	20
HDCU1080/L1 CNB	51064 - 51073	10
HDCU1080/L1 CNB	51079 - 51103	25
HDCU1080/L2 CNB	52011 - 52045	35
HDCU1080/L2 CNB	52051 - 52055	5
HDCU1080/L2 CNB	52061 - 52115	55
HDCU1080/L2 CNB	52141 - 52145	5
HDCU1080/L2 CNB	52151 - 52160	10
HDCU1080/L2 CNB	52171 - 52180	10
HDCU1080/T CNB	51023 - 51038	16
HDCU1080/T CNB	51059 - 51063	5
HDCU1080/T CNB	51074 - 51078	5
HDCU1080/T1 CNB	52001 - 52010	10
HDCU1080/T1 CNB	52046 - 52050	5
HDCU1080/T1 CNB	52056 - 52060	5
HDCU1080/T1 CNB	52116 - 52140	25
HDCU1080/T1 CNB	52146 - 52150	5
HDCU1080/T1 CNB	52161 - 52170	10

Applicable Model(s) (Destination)	Serial Number(s)		Number of Unit(s)
HDCU1500//ULCED	400001	- 401019	1019
HDCU1500/L SYL	10001	- 10025	25
HDCU1500/L1 SYL	11001	- 11089	89
HDCU1500/L2 SYL	12001	- 12309	309
HDCU1500/L2 SYL	13001	- 13589	589
HDCU1500/T J4	30001	- 30015	15
HDCU1500/T1 J4	31001	- 31060	60
HDCU1500/T2 J4	32001	- 32140	140
HDCU1500/T2 J4	33001	- 33241	241
HDCU1500TB	33212	- 33217	6
HKCU1005 SYM			
HKCU1005/1 SYM			
HKCU1005/2 SYM			

Rev2: Added HKCU1005 as applicable model.

**[Description]**

The new firmware for HDCU1000 series and the changed PLD for DRX-5 board have been released. To add the new function, upgrade the firmware and the PLD on the DRX-5 board.

Firmware            V1.20 (AT-167 Board)  
 PLD Version       E\_000\_001\_096\_26    V1.05/V1.09 (DRX-5 Board)

The following peripheral equipment has been upgraded at the same time. To use the new function, upgrade of the peripheral equipment is necessary.

HDC1000 series	V1.21 and later
MSU-900/950	V1.20 and later
RCP-920/921	V1.10 and later
RCP-750/751	V1.40 and later
RM-B750	V1.20 and later

**[Change Points]**

1. The SD Matrix adjustment function has been added.  
 Up to now, only the SD Preset Matrix ON/OFF was operative. Since this version, the following SD Matrix adjustment function becomes operative.
  - \* SD User Matrix ON/OFF
  - \* SD User Matrix Adjust (6 axis)
  - \* SD Multi Matrix ON/OFF
  - \* SD Multi Matrix Adjust (16 axis)
2. The SD Black Clip ON/OFF function to clip below 0% has been added to the luminance signal (Y signal) of the SD-SDI output.
  - \* Note: The version upgrade of the PLD on the DRX-5 board (including the DRX-5 board of the SDI extended option unit HKCU1005) is required.

\* E\_000\_001\_096\_24 -> E\_000\_001\_096\_26

**[Required Parts]**

1. Memory Stick

Use a memory stick for version upgrade. Prepare any of memory sticks shown below. Even if a memory stick is used for other purpose, if the open capacity is more than 2MB, it can be used.

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

## 2. PC Interface Adapter

For copying the data from a PC to a memory stick, the following adapters are available.

- \* PCMCIA card adapter                      MSAC-PC2N
- \* Floppy disk adapter                        MSAC-FD2MA
- \* USB supported reader/writer            MSAC-US2

Or VAIO computer with a slot exclusive for memory stick

## 3. Data for Version Upgrade (Firmware V1.20)

(1) Download V1.20 for HDCU1000/HDCU1500/HDCU1080 AT board

The folder name is HDCU1000\_AT\_V120.

(2) Following two files exist in the folder.

- (A) hdcu1000.rom                              (ROM data, binary file)
- (B) internal memo.txt                        (Version information, text file)

(3) Make a directory in the memory stick as shown below and copy files in (2).

Type all characters of directory name in uppercase letter. Even if you type in uppercase letters, only a top character of a word is shown in uppercase letter and the rest of the characters are shown in lowercase letter on Windows.

¥MSSONY¥PRO¥CAMERA¥HDCU1000

(Type all of characters in uppercase letter.)

## 4. Data for version upgrade (DRX\_PLD V1.05/V1.09)

(1) e-Production filename: E\_000\_001\_96\_26

### [Version Upgrade Procedure (Firmware)]

1. Turn off the power of the HDCU1000/HDCU1500/HDCU1080.
2. Insert the memory stick containing the data for version upgrade, which is copied to the above-mentioned directory, in the memory stick connector on the AT-167 board.
3. Set S401 (switch at the upper side) located at the edge of AT-167 board to "SD".
4. While turning S402 (switch at the lower side) located at the edge of AT-167 board to "ADV", turn on the power.
5. When the memory stick access LED changes from red to green, release the hand off S402.
6. After the green LED of the MAIN-POWER of the HDCU1000/HDCU1500/HDCU1080 blinks for about 15 seconds, it lights.
7. Return the switch S401 from "SD" to the original position.
8. Turn on the power again.

Then, the unit starts up with new software.

### [Version Upgrade Procedure (DRX\_PLD)]

Using the above files with the e-Production tool, write the data in the PLD on the DRX-5 board.

**[Confirmation/ Adjustment after Version Upgrade]**

Confirm the ROM version in the CHARACTER output or MONITOR output.

(In this page, the ROM name is displayed. Therefore, either HDCU1000, HDCU1500 or HDCU1080 is displayed as "HDCU1000".

*ROM Version*	
CHU	
CCU	HDCU1000
1.20	08.04.24

**Confirmation of PLD version**

Turn on the power of the CCU and confirm the version of PLD on the DRX-5 board in the CHARACTER output or MONITOR output.

*DRX Diag*	
PLD Status	
PRE Version:	1.05
POST Version:	1.09