



Technical Memo

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Revision of Information:
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RANK 2

Revised : July 21, 2021

Issued : June 30, 2021

Subject: Software Release [V2.80]

Revise Point(s)

Ember+ Bug fix

Issue No.HDCM21-028R2

Target Models / Destination

Model Name	Dest	Model Name	Dest	Model Name	Dest	Model Name	Dest
HDCU-3170	SYL	HDCU3100	SY3	HDCU3100	SYL		

[Description]

The latest software and PLD of the HDCU3100/HDCU3170 is released. (V2.61 -> ~~V2.80~~V2.81)※Rev2
 Upgrade the software/PLD as necessary.
 Upgrade the firmware in accordance with the procedure below.
 Upgrade the peripheral units by referring to the related technical memo.

[Installable Combinations]

If want to use the functions added in this ~~V2.80~~V2.81※Rev2, upgrade the following peripherals.

HDC3100, HDC3170, HDC3500	: V2.80 or higher
HDCE-TX30, HDCE-RX30	: V1.11 or higher
MSU-1000, MSU-1500	: V3.70 or higher
RCP-1500, RCP-1501, RCP-1530	: V3.70 or higher
MSU-3000, MSU-3500	: V1.21 or higher
RCP-3500, RCP-3501	: V1.20 or higher

Related technical memo

HDCM21-029 (HDC3100, HDC3170, HDC3500, HDC3500/H)
 HDCM21-019 (HDCE-TX30, HDCE-RX30)
 HDCM21-022 (MSU-1000, MSU-1500)
 HDCM21-023 (RCP-1500, RCP-1501, RCP-1530)
 HDCM21-024 (MSU-3000, MSU-3500)
 HDCM21-025 (RCP-3500, RCP-3501)
 HDCM20-042 (Device Setting Plug-in Software for IP Live System Manager (LSM) of
 HDCU3100/3170/5000/5500/3500, V2.4.1)

[Applicable Serial Number]

Model/Destination	Serial Number
HDCU3100/L3	~13495
HDCU3100/T1	~31131
HDCU3170/UF	~402032
HDCU3170/UK	~102029

[Change Point]

<New Function>

1. Added 2019 to the version of PAYLOAD ID

The version 2019 version of PAYLOAD ID has been added in accordance with the following standards that have been updated.

Compliant with SMPTE ST292-1: 2018, SMPTE ST372: 2017, SMPTE ST425-1: 2017, SMPTE ST425-3: 2019, SMPTE ST425-5: 2019, SMPTE ST2081-10: 2018 and SMPTE ST2082-10: 2018.

The standard setting for VIDEO PAYLOAD ID in M07 <SDI ANCILLARY DATA> is LATEST (2019). If the connection destination does not support the latest standard and malfunctions, it is possible to adjust the setting value of PAYLOAD ID to the past standard by returning the age of VIDEO PAYLOAD ID.

<Correction>

1. Improved communication stability when a delay occurs in the control line of camera.
2. NMOS connection improvement (only when HKCU-SFP30 installed)
 - Fixed the problem that the color gamut of HDR and the information of OETF are not reflected in NMOS SDP.
 - Added a function to change the device name displayed in NMOS RDS.
 - Added a mode (Resume Mode) that automatically starts transmission when the device is restarted because there are other companies' RDS that do not instruct resending when the device is restarted.
 - Added the ability to manually set DNS server and domain.
3. Corrected Meta data packet in the IP transmission system to improve transmission/receive errors with other devices. (only when HKCU-SFP30 installed)
4. Functional modification of Ember+ ※Rev2

[Preparation]

<Data for update>

File name: hdcu3100_ ~~v2.80~~v2.81.zip ※Rev2

*Obtain it from Software Download site.

The files below can be obtained by extracting hdcu3100_v2.80.zip.

hdcu3100_app.pkg	Software file
hdcu3100_updater.pkg	Updater file
hdcu3100_os.pkg	OS file
hdcu3100_sy.pkg	PLD file
hdcu3100_vif.pkg	PLD file
hdcu3100_net1.pkg	PLD file
hdcu3100_net2.pkg	PLD file
hdcu3100_dpr.pkg	PLD file
hdcu3100_dm1.pkg	PLD file
hdcu3100_dm2.pkg	PLD file

*All latest software/PLD files as of this technical memo are supplied from the Software Download site.

<Others>

USB memory 1 piece

[Upgrading Procedure]

Use the USB memory for upgrading. Refer to the MAINTENANCE MANUAL for the procedure.

*Upgrade in the order of OS -> APPLICATION -> PLD or forced upgrading.

[Confirmation after Upgrading]

Confirm the versions in the APPLICATION item of the menu of HDCU3100/3170,
DIAGNOSIS - <VERSION1> (D03) page.

APPLICATION	V2.80 V2.81(Change item)※Rev2
OS	V2.80 (Change item)
UPDATER	V1.00
SY	V2.23
VIF	V2.31
DPR	V1.33 (Display only when installing HKCU- UHD30)
NET1	V2.24 (Display only when installing HKCU-SFP30)
NET2	V2.26 (Display only when installing HKCU-SFP30)
DM1	V1.00 (Display only HDCU3170)
DM2	V2.11 (Display only HDCU3170)

[Software History] HDCU3100/HDCU3170

	V1.03 HDCU3100 Initial release	V1.04 HDCM18-019	V1.10 HDCM18-022	V1.11 HDCM18-042	V2.05 HDCM18-050 HDCU3170 Initial release	V2.10 HDCM19-004	V2.23 HDCM19-013
APPLICATION	V1.03	V1.04	V1.10	V1.11	V2.05	V2.10	V2.23
OS	V1.00	←	V1.11	←	V2.01	←	V2.20
UPDATER	V1.00	←	←	←	V1.00	←	←
SY	V1.00	←	V1.10	←	V2.00	←	V2.20
VIF	V1.00	←	V1.10	←	V2.01	V2.15	V2.22
DPR	-	-	-	-	-	-	V1.18
NET1	-	-	V1.00	←	←	←	V2.04
NET2	-	-	V1.00	←	←	←	V2.04
DM1	-	-	-	-	V1.00	←	←
DM2	-	-	-	-	V1.04	V2.11	←

	V2.44 HDCM19-213	V2.45 HDCM20-016	V2.50 HDCM20-026	V2.60 HDCM20-039	V2.61 HDCM21-004	V2.80 HDCM21-028
APPLICATION	V2.44	V2.45	V2.50	V2.60	V2.61	V2.80 V2.81※Rev2
OS	V2.30	←	V2.40	←	←	V2.80
UPDATER	←	←	←	←	←	←
SY	V2.21	←	V2.22	←	V2.23←	←
VIF	V2.23	←	←	V2.31	←	←
DPR	V1.20	←	←	V1.33	←	←
NET1	V2.05	←	V2.24	←	←	←
NET2	V2.05	←	V2.26	←	←	←
DM1	←	←	←	←	←	←
DM2	←	←	←	←	←	←