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Sony IP&S Inc.

No. HDCM17-088-TN

Technical News

Issued : February 1, 2018

Subject: Software Release [AT Software: V3.30]

[Applicable Model]

Model / Destination	Serial Number	Number of Unit
HDC1700 CED		
HDC1700 E33		
HDC1700 JN4		
HDC1700 SYL		
HDC2000 CED		
HDC2000 J4		
HDC2000 JN3		
HDC2000 SY3		
HDC2100 J4		
HDC2400 CED		
HDC2400 E33		
HDC2400 JN4		
HDC2400 SYL		
HDC2500 CED		
HDC2500 E33		
HDC2500 JN4		
HDC2500 SYL		
HDC2550 CED		
HDC2550 UC7		
HDC2570 CED		
HDC2570 UC7		
HDC2580 CNB		
HDC2600 J4		
HKC-FB20 SYL		
HKC-TR20 SYM		
HKC-TR27 SYM		
HKC-WL20 SYM		

[Description]

The software to add / expand the functions of HDC2000 series (V3.00) is released.

Upgrade the firmware and PLD on each board by referring to the procedure below as necessary and upgrade the connecting control panel and CCU as necessary.

- HDCM17-085: RCP-1500/1501/1530
- HDCM17-086: MSU-1000/1500
- HDCM17-089: HDCU2000 Series

[Change Point]

<New Functions>

1. VF Dynamic Contrast function is added in 1080P(4K/HDR) transmission. (It is enabled when the HKCU2040 is equipped.)
The contrast information is added to the high luminance component to the signal displayed on the viewfinder to assist the focusing when shooting in HDR.
2. White Clip function in HDR is added. (It is enabled when the HKCU2040 is equipped.)
3. The control of the Follow Focus from the panel is supported.

<Error Correction>

1. The resolutions of the Zoom Link of VF Detail / Dynamic Focus / Kinetic Focus are changed to 5% step.
2. The VF DETAIL AREA is expanded to 10%.
3. Indication of DISP of the Follow Focus is changed from the direct indication of the lens data to the indication of the range of 0-999.
4. The error that the CTEMP is not reset when the AUTO LEVEL is executed is corrected.
5. The VF gamma during the transmission of the 1080P (4K/HDR) is corrected.

[Preparation]

<Software File>

File name:

hdc2000_app.pkg - Software file
hdc2000_dpr3.pkg - PLD data 3 for DPR-338 board

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

<Others>

USB memory 1 piece

[Installation Procedure]

As for procedure, refer to the MAINTENANCE MANUAL.

[Confirmation after upgrading]

Confirm the versions in the camera menu DIAGNOSIS – <ROM VERSION> (D03) page.

CAMERA APP	V3.30 (Updated Item)
TG(FIT)	V1.00 * HDC2600/2100
TG(IT)	V2.00 * HDC2500, etc.
SY	V3.04
DPR1	V2.41
DPR2	V1.20
DPR3	V3.08 (Updated Item)

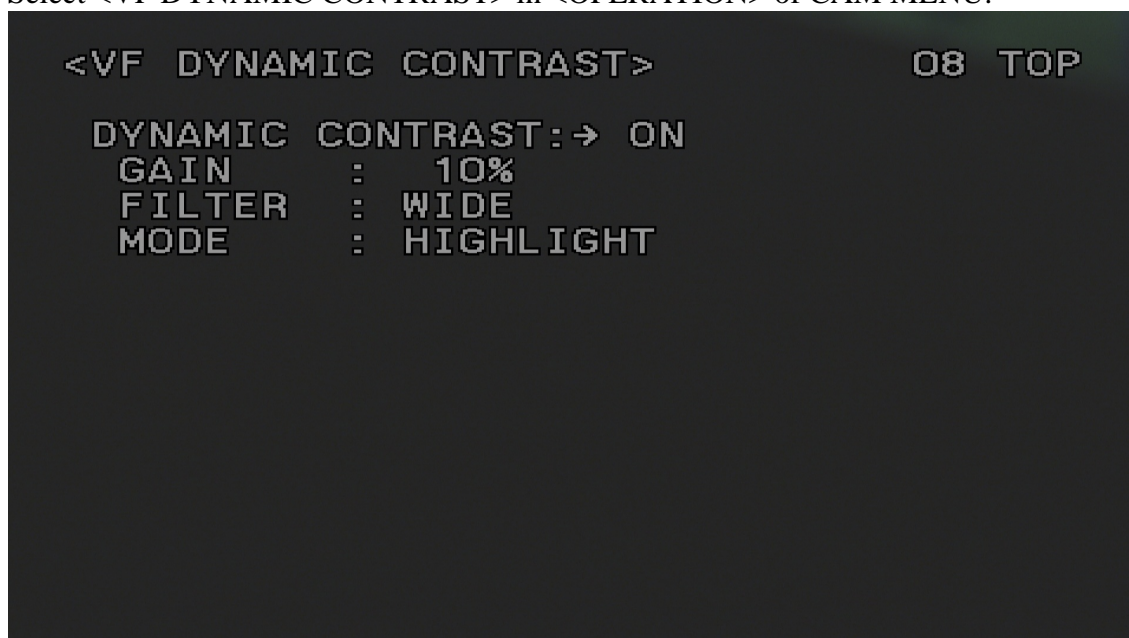
SDI	V3.01	
TR	V2.41	* HDC2550/HKC-TR20
IF	V2.40	* HKC-WL20
CD	V1.02	* HDC2570/HKC-TR27

[Operation of VF DYNAMIC CONTRAST]

1. Set the camera to 4K/HDR MODE.
Set the camera to “4K/HDR MODE” by MAINTENANCE / CAM MODE in Camera menu. By this setting, “1080P (4K/HDR)” can be selected by the CAMERA TRASMIT on the panel.
However, the main image or the down-converted SD image would not be output from the camera with “4K/HDR MODE” setting, therefore, set CAM MODE to NORMAL when the main image or the SD image is required.
* VF DYNAMIC CONTRAST cannot be used in NORMAL MODE.
2. Set CAMERA TRASMIT on the panel to 1080P(4K/HDR).
By setting “CAMERA TRASMIT” to “1080P(4K/HDR)”, DYNAMIC CONTRAST of the VF DYNAMIC CONTRAST in the MAINTENANCE of camera menu would be enabled for HDC-2000/2500.
3. Set VF DYNAMIC CONTRAST to ON.
By setting each parameters of VF DYNAMIC CONTRAST and setting the DYNAMIC CONTRAST to ON, the image with the enhanced contrast component can be output only for the VF image.

[Explanation of VF DYNA MIC CONTRAST]

1. Select <VF DYNAMIC CONTRAST> in <OPERATION> of CAM MENU.



DYNAMIC CONTRAST : Selection of ON / OFF

OFF : Normal SDR image is output

ON : The image with enhanced contrast component is output only for the VF image

* This function can be assigned to the assignable switch.

GAIN : Intensity of the adding contrast component (0 - 100%)

FILTER : Selection of WIDE / NARROW

WIDE : The contrast component is extracted from pixel data over the wide range.

NARROW : The contrast component is extracted from pixel data over the narrow range.

MODE : HIGHLIGHT / FOGGY

HIGHLIGHT : The contrast component of the highlighted section only is enhanced.
(It is intended to be used in HDR.)

FOGGY : The contrast component of whole area is equally enhanced.
(It is intended to be used in the situation that the contrast is not clear such as in the fog.)

It might be hard to see or cannot see the signal with high luminance as for the VF image in HDR operation since the VF image is SDR. The visibility of VF image is improved by using this function.