

Customer Service BULLETIN

Severity Level: **LOW**

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Customer Service Bulletin

21224

Title Package update LDX Series and XCU UXF

Date 2020-03-04

Product LDX 86N, 85N, 86 and 82 Series and XCU UXF

Product Version All

Overview

System parts involved:

- LDX 86N/85N Series **V19** Package_LDX86N_85N_392240765101_19
- LDX 86N RF **V19** Package_LDX86N-RF_538-00009-01_19
- LDX 86 Series **V26** Package_LDX86_392240764361_26
- LDX 82 Series **V10** Package_LDX82_538_00001_10
- XCU UXF Universe/Enterprise **V12** Package_XCU UXF_392240765131_12

Overall Message

- Support for XDR in HS en XS video modes.
The XCU UXF must be updated to version **V12** for complete functionality.
- Note:
 - When XDR is enabled in the HS and XS video modes, ALL outputs on the XCU UXF as well as the main output on the adapter, are HDR.
 - When XDR is enabled in 4K the main outputs on the camera adaptor, when selected, are SDR only.
- Added option for 2nd Main Output to Universe Adapter.
In the Viewfinder menu go to "Configuration" > "Signals".
The item "VF/Main out" as well as the "ExtOut" can be, individually, set to "Main".
(or "MainHDR" when XDR is enabled)
- Full black function available in PCI protocol for wireless operations

Problem solved in UXF XCU UXF:

- UHD upscaler missing in 4K uncompressed mode

Changed functionality:

The camera package version will have new defaults for HDR.

The HDRSensmappoint, which was a bit difficult to explain, is changed to Output level. This is in line with the naming in the ITU BT2100 spec, which most of the users understand.

Next to correct defaults for gamma low in PQ and HLG.

For HLG the default is 73%.

HDR Defaults settings:

In HDR we can choose between HLG and SMPTE2084 (PQ)

Both have different requirements as default settings because both systems work differently.

Curve	Default Output LVL	Outputlevel range[%]	Gamma low	Gamma high	Default HdrRange
PQ	57%	50..66	1.2	1.0	Narrow
HLG	73%	50..87	1.0	1.0	Full

HDRGamBpnt range:

The lower limit is today 50%. This can be as low as 5% (Now 50%)

Viewfinder output:

VF HDR Knee->HDR Kn Point: Lowest value is now 50%. This can be lowered to 20%

LDX 85N/86N Series

After updating the package, the status of the LDX 86n camera head becomes:
Package LDX86N-85N_392240765101_19

PC Board Name	PC Board No (12NC)	Firmware No (12NC)	Version
ARM Application SW	522-00048-01	3922 407 64931	17.00
VP FW 1	522-00048-01	504-00011-01	03.00
VP FW 2	522-00048-01	504-00010-01	04.00
VP FW 3	522-00048-01	3922 407 64961	11.00
VP FW 4	522-00048-01	3922 407 64971	13.00
VP FW 5	522-00048-01	504-00025-01	01.00
VF SW	522-00048-01	3922 407 65121	00.85
Diagnose FW/SW Actel	522-00048-01	3922 407 64611	00.19
RCB FW	3922 406 57271	3922 407 64621	01.01
Sensor Brd. FW (R-G-B)	522-00053-01	3922 407 65091	01.25

LDX 86N RF Camera Head

After updating the package, the status of the LDX 86n RF camera head becomes:
Package_LDX86N_RF_538-00009-01_19

PC Board Name	PC Board No (12NC)	Firmware No (12NC)	Version
ARM Application SW	522-00048-01	3922 407 64931	17.00
VP FW 1	522-00048-01	504-00011-01	03.00
VP FW 2	522-00048-01	504-00010-01	04.00
VP FW 3	522-00048-01	3922 407 64981	11.00
VP FW 4	522-00048-01	3922 407 64991	13.00
VF SW	522-00048-01	3922 407 65121	00.85
Diagnose FW/SW Actel	522-00048-01	3922 407 64611	00.19
RCB FW	3922 406 57271	3922 407 64621	01.01
Sensor Brd. FW (R-G-B)	522-00053-01	3922 407 65091	01.25

LDX 86 Series Camera Head

After updating the package, the status of the LDX 86 camera head becomes:

Package_LDX9060_392240764361_26

PC Board Name	PC Board No (12NC)	Firmware No (12NC)	Version
ARM Application SW	522-00048-01	3922 407 64581	23.00
VP FW 1	522-00048-01	3922 407 64561	05.00
VP FW 2	522-00048-01	3922 407 64911	10.00
VP FW 3	522-00048-01	504-00026-01	01.00
VP SW	522-00048-01	3922 407 64571	00.85
Diagnose FW/SW Actel	522-00048-01	3922 407 64611	00.19
RCB FW	3922 406 57271	3922 407 64621	01.01
Sensor Brd. FW (R-G-B)	3922 406 57261	3922 407 64631	02.13

LDX 82 Series Camera Head

After updating the package, the status of the LDX 86 Series camera head becomes:

Package_538-00001_01_10

PC Board Name	PC Board No (12NC)	Firmware No (12NC)	Version
ARM Application SW	522-00048-01	528-00005-01	08.00
VP FW 2	522-00048-01	3922 407 64911	10.00
VP SW	522-00048-01	3922 407 64571	00.85
Diagnose FW/SW Actel	522-00048-01	3922 407 64611	00.19
RCB FW	3922 406 57271	3922 407 64621	01.01
Sensor Brd. FW (R-G-B)	3922 406 57261	3922 407 64631	02.13

XCU UXF eXchangable Control Unit

After updating the package, the status of the XCU UXF becomes:

Package_XCU_UXF_392240765131_12

PC Board Name	PC Board No (12NC)	Firmware No (12NC)	Version
Linux Platform	522-00034-01	3922 407 65161	00.16
Application Software	522-00034-01	3922 407 65171	11.00
Transmission Software	522-00034-01	528-00014-01	03.10
User Interface SW	3922 406 57441	3922 407 64691	00.16
GEB Image 1 FW	522-00034-01	528-00015-01	01.44
GEB Image 2 FW	522-00034-01	528-00016-01	01.44
GEB Image 3 FW	522-00034-01	504-00014-01	01.44
GEB Image 4 FW	522-00034-01	12-00137-000	01.44
GEB Image SW 1-4 (tx)	522-00034-01	3922 407 65181	00.20
GEB Image SW 1-4 (Ctrl)	522-00034-01	3922 407 65191	00.28

Contacts

Grass Valley Product Support

Web-based support is available for many Grass Valley products. Please visit our online Knowledgebase:

<http://mygrassvalleyportal.force.com/gvknowledge>

For or technical assistance, please contact us by e-mail or phone. For more information refer to:

<http://www.grassvalley.com/support/contact>

Overview

For an overview of released camera service bulletins, fault descriptions, related products and filter options, refer to:

<ftp://ftp.grassvalley.com/cameras/>