



Customer Service BULLETIN

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Customer Service Bulletin 000019270

Title Package update LDX Series

Date 2019-01-14

Product LDX Series

Product Version All

Overview

System parts involved:

- LDX 86n Series **V15**
- LDX 86n RF **V15**
- LDX 86 Series **V23**
- LDX 80 Series **V36**
- LDX 82 Series **V07**
- Focus Live **V18* No functional changes**
- Universe Adapter **V11**
- XCU UXF **V08**
- XCU Universe **V08**
- Camera Connect **V01.46**

Overall Message

- This package release is covering the complete range of LDX Series, including XCU UXF, XCU Universe 10G and Universe Adapter.
- For complete functionality of Direct IP+ all the individual system parts need to be updated according below mentioned packages.
- Direct IP+ only possible in combination with XCU UXF.
- In Direct IP+ only the single speed video modes 1080i, 720P and 1080P are available.
- In Direct IP+, XDR is disabled.

LDX 86N Series Camera Head

After updating the package, the status of the LDX 86n camera head becomes:
Package LDX86n 392240765101_15

| PC Board Name | PC Board No (12NC) | Firmware No (12NC) | Version |
|------------------------|--------------------|--------------------|---------|
| ARM Application SW | 522-00048-01 | 3922 407 64931 | 13.00 |
| VP FW 1 | 522-00048-01 | 504-00011-01 | 03.00 |
| VP FW 2 | 522-00048-01 | 504-00010-01 | 03.00 |
| VP FW 3 | 522-00048-01 | 3922 407 64961 | 10.00 |
| VP FW 4 | 522-00048-01 | 3922 407 64971 | 11.00 |
| VF SW | 522-00048-01 | 3922 407 65121 | 00.83 |
| 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 | 01.23 |

New functionality:

- Direct IP+ functionality enabled (available with license).
In Direct IP+ only the single speed video modes 1080i, 720P and 1080P can be selected.
In Direct IP+, XDR is disabled.
- The VF/Main BNC out on the back panel of the adapter can now also be set to MAIN XDR (In XDR only).
This can be done in the Menu “**Configuration**” > “**Signals**”.
- When camera is operation in 4K or XDR, the system provides two streams from head to XCU.
In 4K the second stream host the HD Stream (= LIVE stream), in XDR the second stream host the SDR stream.
In DirectIP this second stream can be disabled to reduce the needed bandwidth.
The stream enabling/disabling can be done via the Camera Connect application (Version **V01.46** or higher) or the VF Menu.
In the VF menu it can be done at “**Configuration**” > “**XCU Connect**”

Problem solved:

- CLASS functionality with new delivered Canon UJ27, CJ24E and CJ14E corrected.
- Streaking improvement in single speed.

LDX 86N RF Camera Head

After updating the package, the status of the LDX 86n camera head becomes:
Package LDX86n 538-00009_01_15

| PC Board Name | PC Board No (12NC) | Firmware No (12NC) | Version |
|------------------------|--------------------|--------------------|---------|
| ARM Application SW | 522-00048-01 | 3922 407 64931 | 13.00 |
| VP FW 1 | 522-00048-01 | 504-00011-01 | 03.00 |
| VP FW 2 | 522-00048-01 | 504-00010-01 | 03.00 |
| VP FW 3 | 522-00048-01 | 3922 407 64981 | 10.00 |
| VP FW 4 | 522-00048-01 | 3922 407 64991 | 11.00 |
| VF SW | 522-00048-01 | 3922 407 65121 | 00.83 |
| 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 | 01.23 |

New functionality:

- Support for 4k and HDR functionality on a wireless interface.

Problem solved:

- CLASS functionality with new delivered Canon UJ27, CJ24E and CJ14E corrected.
- Streaking improvement in single speed.

LDX 86 Series Camera Head

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

Package_LDX9060_392240764361_23

| PC Board Name | PC Board No (12NC) | Firmware No (12NC) | Version |
|------------------------|--------------------|--------------------|---------|
| ARM Application SW | 522-00048-01 | 3922 407 64581 | 21.00 |
| VP FW 1 | 522-00048-01 | 3922 407 64561 | 05.00 |
| VP FW 2 | 522-00048-01 | 3922 407 64911 | 09.00 |
| VP SW | 522-00048-01 | 3922 407 64571 | 00.83 |
| 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 | 02.12 |

New functionality:

- Direct IP+ functionality enabled (available with license).
In Direct IP+ only the single speed video modes 1080i, 720P and 1080P can be selected.
In Direct IP+, XDR is disabled.
- The VF/Main BNC out on the back panel of the adapter can now also be set to MAIN XDR (In XDR only).
This can be done in the Menu “**Configuration**” > “**Signals**”.

Problem solved:

- CLASS functionality with new delivered Canon UJ27, CJ24E and CJ14E corrected.

LDX 82 Series Camera Head

After updating the package, the status of the LDX 86 Series camera head becomes:
Package_538-00001_01_07

| PC Board Name | PC Board No (12NC) | Firmware No (12NC) | Version |
|------------------------|--------------------|--------------------|---------|
| ARM Application SW | 522-00048-01 | 528-0000-01 | 06.00 |
| VP FW 2 | 522-00048-01 | 3922 407 64911 | 09.00 |
| VP SW | 522-00048-01 | 3922 407 64571 | 00.83 |
| 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 | 02.12 |

New functionality:

- Direct IP+ functionality enabled (available with license).
In Direct IP+ only the single speed video modes 1080i, 720P and 1080P can be selected.
In Direct IP+, XDR is disabled.
- The VF/Main BNC out on the back panel of the adapter can now also be set to MAIN XDR (In XDR only).
This can be done in the Menu “**Configuration**” > “**Signals**”.

Problem solved:

- CLASS functionality with new delivered Canon UJ27, CJ24E and CJ14E corrected.

LDX 80 Series Camera Head

After updating the package, the new status of the LDX 80 Series camera head becomes:
Package_LDX9020_392240761901_36

| PC Board Name | PC Board No (12NC) | Firmware No (12NC) | Version |
|------------------------|--------------------|--------------------|---------|
| Diagnostic SW | 3922 406 55961 | 3922 407 60341 | 00.37 |
| Right Cover Board FW | 3922 406 55971 | 3922 407 60771 | 01.14 |
| Application SW | 3922 406 55961 | 3922 407 61891 | 32.00 |
| Imager Control FW | 3922 406 55961 | 3922 407 61911 | 07.14 |
| Imager Control SW | 3922 406 55961 | 3922 407 61921 | 00.53 |
| Video Proc. FW | 3922 406 55961 | 3922 407 61931 | 07.14 |
| Video Proc. SW | 3922 406 55961 | 3922 407 61941 | 00.42 |
| Sensor Brd. FW (R-G-B) | 3922 406 56011 | 3922 407 61951 | 20.00 |

New functionality:

- Direct IP+ functionality enabled (available with license).
In Direct IP+ only the single speed video modes 1080i, 720P and 1080P can be selected.

Focus Live Camera Head

After updating the package, the new status of the Focus 70/75 Live camera head becomes:
Package_Focus_7x_Live_392240764821_18

| PC Board Name | PC Board No (12NC) | Firmware No (12NC) | Version |
|------------------------|--------------------|--------------------|---------|
| Diagnostic SW | 3922 406 55961 | 3922 407 60341 | 00.37 |
| Right Cover Board FW | 3922 406 55971 | 3922 407 60771 | 01.14 |
| Application SW | 3922 406 55961 | 3922 407 64831 | 13.00 |
| Imager Control FW | 3922 406 55961 | 3922 407 61911 | 07.14 |
| Imager Control SW | 3922 406 55961 | 3922 407 61921 | 00.53 |
| Video Proc. FW | 3922 406 55961 | 3922 407 61931 | 07.14 |
| Video Proc. SW | 3922 406 55961 | 3922 407 61941 | 00.42 |
| Sensor Brd. FW (R-G-B) | 3922 406 56011 | 3922 407 61951 | 20.00 |

- No functional changes

Universe Adapter

After updating the package, the status of the Universe Adapter becomes:

Package_LDX_Universe_Adapter_392240764771_11

| PC Board Name | PC Board No (12NC) | Firmware No (12NC) | Version |
|-----------------------|--------------------|--------------------|---------|
| Transmission Appl. SW | 3922 406 57221 | 3922 407 64521 | 00.21 |
| Transmission FW | 3922 406 57221 | 3922 407 63741 | 00.60 |
| Transmission SW | 3922 406 57221 | 3922 407 64811 | 00.31 |

New functionality:

- Direct IP+ functionality enabled.
- The VF/Main BNC out on the back panel of the adapter can now also be set to MAIN XDR (In XDR only).
This can be done in the Menu “**Configuration**” > “**Signals**”.

Problem solved:

- Very sometimes camera report: “Fan speed too low” and “emergency stop”.

Known issue:

- In Direct IP configuration, when switching HDR ON/OFF or OFF/ON, the 2nd stream is not always fully initialized.
Also very sometimes the main stream from Camera to XCU is not available at all.
Switching the EXT or TP stream, or a power reset of the camera or XCU will recover the situation and can be used as work around.

Universe XCU eXchangable Control Unit (10G)

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

Package_XCU_Univ_392240764761_08

| PC Board Name | PC Board No (12NC) | Firmware No (12NC) | Version |
|-------------------------|--------------------|--------------------|---------|
| Generic Board Appl. SW | 3922 406 57241 | 3922 407 63011 | 23.00 |
| Generic Board FW 1 | 3922 406 57241 | 3922 407 64131 | 00.39 |
| Generic Board FW 2 | 3922 406 57241 | 3922 407 64751 | 00.23 |
| Generic Board SW | 3922 406 57241 | 3922 407 63021 | 05.14 |
| Transmission Board FW 1 | 3922 406 57211 | 3922 407 64111 | 00.70 |
| Transmission Board FW 2 | 3922 406 57211 | 3922 407 64741 | 00.43 |
| Transmission Board SW | 3922 406 57211 | 3922 407 64811 | 00.31 |
| User Interface Board | 3922 406 57441 | 3922 407 64691 | 00.16 |

New functionality:

- 1080P Live output available when camera operates in 6x1080i
This can be done in the XCU menu **"Install"** > **"SDI Live Out"**.
The options are **"SD"**, **"1080i"** and **"1080P"**.
- HDR and WCG parameters are embedded as Video payload ID in the SDI outputs according to ST 352 update of 2018.

Problem solved:

- Phase offset between audio 1 & 2 is corrected.

XCU UXF eXchangable Control Unit

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

Package_XCU_UXF_392240765131_08

| PC Board Name | PC Board No (12NC) | Firmware No (12NC) | Version |
|-----------------------|--------------------|--------------------|---------|
| Linux Platform | 522-00034-01 | 3922 407 65161 | 00.14 |
| Application Software | 522-00034-01 | 3922 407 65171 | 07.00 |
| Transmission Software | 522-00034-01 | 528-00014-01 | 03.08 |
| User Interface SW | 3922 406 57441 | 3922 407 64691 | 00.16 |
| GEB Image 1 FW | 522-00034-01 | 528-00015-01 | 01.38 |
| GEB Image 2 FW | 522-00034-01 | 528-00016-01 | 01.38 |
| GEB Image 3 FW | 522-00034-01 | 504-00014-01 | 01.38 |
| GEB Image SW1 (tx) | 522-00034-01 | 3922 407 65181 | 00.18 |
| GEB Image SW2 (Ctrl) | 522-00034-01 | 3922 407 65191 | 00.23 |

New functionality:

- Direct IP+ functionality enabled.
- HDR and WCG parameters are embedded as Video payload ID in the SDI outputs according to ST 352 update of 2018.

Problem solved:

- Phase offset between audio 1 & 2 is corrected.
- Selecting next multicast stream address for extern video input did not result in received video. Error in join/leave for external streams corrected.
- First top lines are wrong in phase outputs of high speed video mode

Known issue:

- A **SD**-SDI signal used as external input on EXT 1 and/or EXT 2 will not be passed through to the camera head.
A **SD**-SDI signal used on EXT 3 is no problem.
Recommendation is to use a **HD**-SDI as EXT input.

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/>