



## 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 2<sup>nd</sup> 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

## 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/>