

XIP-3901-DC

Release History

Release Version	Comprising:		Release Date	User Manual for this Release (Grass Valley Document #)
	Firmware Version	Software Version		
2.1.0	2.1.0.274	2.1.0	2020-07-29	13-03065-010 Rev. AI
2.0.0	2.0.0.272	2.0.0	2020-01-24	13-03065-010 Rev. AF
1.1.0	1.1.0.218	1.1.0	2019-02-15	13-03065-010 Rev. AD
1.0.0	1.0.0.207	1.0.0	2018-09-28	13-03065-010 Rev. AB

WARNINGS

XIP3901DC-1096	<p>Using Software 2.0.x with Firmware 2.1 can prevent the iControl panel from opening</p> <p>Firmware 2.1 has one additional BBC LUT in the list of available LUTs.</p> <p>When using Software (XIP-3901-DC iControl panel) 2.1, the user can select this new BBC LUT.</p> <p>If Software 2.0.x is still in use in the system, there are two consequences:</p> <ol style="list-style-type: none"> 1) The 2.0.x panel will not open because the BBC LUT selection is out of range. 2) If the 2.0.x panel is already open, the BBC LUT selection combo box will remain on the preceding selection because the new LUT does not exist in its list. <p>Recommendation: Install Software 2.1.</p>
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XIP3901DC-1040	Upgrade/Downgrade between 2.x.x and 1.x.x Each version has its settings. Consequently upgrading or downgrading between 2.x.x and 1.x.x might require ETH3 reconfiguration
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NOTES: The iControl compatibilities shown below are officially supported by Grass Valley. Earlier versions may also work, with bugs or limited features.

The reference number (Ref #) given for each feature or bug in these release notes refers to internal Grass Valley documentation.

UPGRADE PACKAGE: 2.1.0

Firmware version: [2.1.0 \(CPU 2.1.0.274, FPGA 2.0.0.25\)](#)

Release date: [2020-07-29](#)

iControl compatibility: [7.51+](#)

iControl Solo compatibility: [7.51+](#)

RCP-200 compatibility: [N/A](#)

Hardware compatibility: [This upgrade package applies to all existing hardware assemblies.](#)

Release type: [Official release](#)

ENHANCEMENTS & NEW FEATURES

Ref #	Description
XIP3901DC-1079	<p>Updated HDR processing</p> <p>Support of BBC LUTs v1.4. This requires the XIP-3901-UDC-HDR option.</p>

BUG FIXES

Ref #	Description
XIP3901DC-1084	<p>HDR configuration is reset after a reboot or power-up</p> <p>The HDR Global configuration for DC1 and DC2 processing channels was reset to the default value of "Grass Valley LUTs: BT.709 to BT.2020" after a reboot or power-up.</p>

KNOWN BUGS & LIMITATIONS

Ref #	Description
XIP3901DC-1048	<p>Custom LUT Limitations</p> <p>Custom LUTs are not managed by Factory, User Presets and Profiles. To delete Custom LUTs, you need to manually delete each of them.</p> <p>Furthermore, Custom LUTs Files are shared by all XIP-3901 applications: XIP-3901-UC, XIP-3901-DC, XIP-3901-FS, and so on.</p>
XIP3901DC-787	<p>Metadata conversion may not be processed properly.</p> <p>Incoming metadata is passed through to the output without any processing. This may result in a non-conforming conversion. E.g. CEA-708B packets during 4K to 1080i conversions.</p>
XIP3901DC-788	<p>No error is reported for 3G Level B DS sources.</p> <p>3G Level B Dual Stream input signals are not supported. They are erroneously identified as Dual Link. When this occurs, the error is not reported, but the output is invalid.</p>
XIP3901DC-789	<p>Potential problem with metadata packet placement during 3G-A to 3G-B operation or 3G-B to HD/3G-A operation.</p> <p><u>3G-A to 3G-B:</u></p> <p>Some incoming metadata packets, other than audio or any processed metadata, may pass through to the output and may end up on an incorrect line on link A and/or be placed on link B.</p> <p>This will occur only for 3G-A/Quad Link 3G-A inputs.</p> <p><u>3G-B/Quad-Link 3G-B to HD/3G-A:</u></p> <p>Some incoming metadata packets, other than audio or any processed metadata, may pass through to the output and may end up on an incorrect line.</p> <p>This will occur only for HD/3G-A outputs.</p>

XIP3901DC-791	<p>SD-SDI video format is not reported.</p> <p>Although SD-SDI input signals are unsupported, the video format should be reported but is identified as "unknown format" instead.</p>
XIP3901DC-809	<p>Application version is not updated in the local menu.</p> <p>Upgrading an application that is not in use won't update its application version in the local menu. The version in the local menu is updated at boot time.</p>

UPGRADE PACKAGE: 2.0.0

Firmware version: [2.0.0 \(CPU 2.0.0.272, FPGA 2.0.0.25\)](#)

Release date: [2020-01-24](#)

iControl compatibility: [7.51+](#)

iControl Solo compatibility: [7.51+](#)

RCP-200 compatibility: [N/A](#)

Hardware compatibility: [This upgrade package applies to all existing hardware assemblies.](#)

Release type: [Official release](#)

ENHANCEMENTS & NEW FEATURES

Ref #	Description
XIP3901DC-940	<p>Additional HDR processing</p> <p>Here are the new features :</p> <ol style="list-style-type: none"> 1. Support of BBC LUTs 2. Support of Custom LUTs 3. Possibility to force a new VPID <p>These new feature required XIP-3901-UDC-HDR option</p>
XIP3901DC-960	<p>Additional Video Test Pattern</p> <p>Possibility to enable HLG and PQ Test pattern on 3G, 12G and Quad Link 3G SDI outputs</p>
XIP3901DC-1038	<p>Additional Network features</p> <p>Here are the new features:</p> <ol style="list-style-type: none"> 1. Support new bridged interface through the frame controller's Ethernet ports. This must not contain any of the frame controller's IP addresses 2. Support DHCP 3. Support LLDP

XIP3901DC-1037	<p>Additional settings and statuses on the local menu</p> <p>Here are the new features:</p> <ol style="list-style-type: none"> 1. Possibility to set ETH3 and FRM interface through local menu 2. Possibility to display ETH3 and FRM interface statuses
XIP3901DC-906	<p>DA Mode</p> <ul style="list-style-type: none"> - SDI output is duplicated on SDI OUT2, SDI OUT3, SDI OUT4 for DC1 - SDI output is duplicated on SDI OUT6, SDI OUT7, SDI OUT8 for DC2
XIP3901DC-911	<p>Link Selection for Audio and Metadata</p> <ul style="list-style-type: none"> - Possibility to select audio source from 3G Link 1, 3G Link 2, 3G Link 3 or 3G Link 4 - Possibility to select metadata source from 3G Link 1, 3G Link 2, 3G Link 3 or 3G Link 4

BUG FIXES

Ref #	Description
XIP3901DC-894	<p>Colorimetry info on VPID doesn't follow on test pattern</p> <p>When Test Pattern is enabled outgoing colorimetry follows the SDI input colorimetry when it should be SDR BT.709</p>
XIP3901DC-1003	<p>GV LUT HLG to SDR displayed peak white is too low</p> <p>The HLG to SDR conversion has been optimized to maximize the available SDR dynamic range.</p> <p>The "round trip" combination of SDR to HLG then GV LUT HLG to SDR processing will result in levels that are comparable to the source.</p>
XIP3901DC-1012	<p>Audio does not pass through path DC2 when DC1 SDI Input mode is set to 12G/3G and input signal is 3G</p>

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XIP3901DC-1048	<p>Custom LUT Limitations</p> <p>Custom LUTs are not managed by Factory, User Presets and Profiles. To delete Custom LUTs, you need to manually delete each of them.</p> <p>Furthermore, Custom LUTs Files are shared by all XIP-3901 applications: XIP-3901-UC, XIP-3901-DC, XIP-3901-FS, and so on.</p>
XIP3901DC-787	<p>Metadata conversion may not be processed properly.</p> <p>Incoming metadata is passed through to the output without any processing. This may result in a non-conforming conversion. E.g. CEA-708B packets during 4K to 1080i conversions.</p>
XIP3901DC-788	<p>No error is reported for 3G Level B DS sources.</p> <p>3G Level B Dual Stream input signals are not supported. They are erroneously identified as Dual Link. When this occurs, the error is not reported, but the output is invalid.</p>
XIP3901DC-789	<p>Potential problem with metadata packet placement during 3G-A to 3G-B operation or 3G-B to HD/3G-A operation.</p> <p><u>3G-A to 3G-B:</u></p> <p>Some incoming metadata packets, other than audio or any processed metadata, may pass through to the output and may end up on an incorrect line on link A and/or be placed on link B.</p> <p>This will occur only for 3G-A/Quad Link 3G-A inputs.</p> <p><u>3G-B/Quad-Link 3G-B to HD/3G-A:</u></p> <p>Some incoming metadata packets, other than audio or any processed metadata, may pass through to the output and may end up on an incorrect</p>

	<p>line.</p> <p>This will occur only for HD/3G-A outputs.</p>
XIP3901DC-791	<p>SD-SDI video format is not reported.</p> <p>Although SD-SDI input signals are unsupported, the video format should be reported but is identified as "unknown format" instead.</p>
XIP3901DC-809	<p>Application version is not updated in the local menu.</p> <p>Upgrading an application that is not in use won't update its application version in the local menu. The version in the local menu is updated at boot time.</p>

UPGRADE PACKAGE: 1.1.0

Firmware version: [1.1.0 \(CPU 1.1.0.218, FPGA 1.0.0.82\)](#)

Release date: [2019-02-15](#)

iControl compatibility: [7.51+](#)

iControl Solo compatibility: [7.51+](#)

RCP-200 compatibility: [N/A](#)

Hardware compatibility: [This upgrade package applies to all existing hardware assemblies.](#)

Release type: [Official release](#)

ENHANCEMENTS & NEW FEATURES

Ref #	Description
XIP3901DC-900	<p>Wide HDR Ref White Range</p> <p>Support wide HDR Ref White range for :</p> <ul style="list-style-type: none"> - SDR to HLG BT.2100 - HLG BT.2100 to SDR - SDR to PQ BT.2100 - PQ BT.2100 to SDR
XIP3901DC-899	<p>Input & Output Range</p> <p>Control Input Range for PQ BT.2100 to SDR and Output Range for SDR to PQ BT.2100</p>
XIP3901DC-901	<p>New Rear XIP-3901-3+DRP-H</p> <p>Support new XIP-3901 rear with HD BNC</p>

BUG FIXES

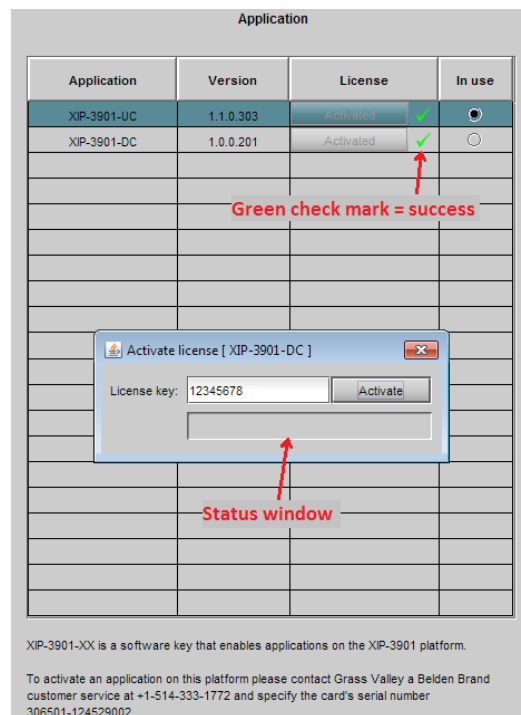
Ref #	Description
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Application Manager does not show success after activating a license.

The Application Manager panel is used to activate or switch between applications. It shows all the applications on the platform, their respective versions, whether their license keys have been activated, and which one is currently in use. It is accessed by clicking the Application button in the iControl XIP-3901-UC control panel.

To activate an application, click the Activate button in the License column. In the Activate license dialog box that appears, enter the license key and click Activate. If the key is valid, the status window under the key should become green to indicate success but does not. Yet successful activation of the license is confirmed with the green check mark that now appears in the License column. The dialog box can now be closed. See the following image:

[XIP3901DC-833](#)



Application	Version	License	In use
XIP-3901-UC	1.1.0.303	Activated	<input checked="" type="radio"/>
XIP-3901-DC	1.0.0.201	Activated	<input type="radio"/>

Green check mark = success

Status window

XIP-3901-XX is a software key that enables applications on the XIP-3901 platform.

To activate an application on this platform please contact Grass Valley a Belden Brand customer service at +1-514-333-1772 and specify the card's serial number 306501-124529002.

KNOWN BUGS & LIMITATIONS

Ref #	Description
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XIP3901DC-787	<p>Metadata conversion may not be processed properly.</p> <p>Incoming metadata is passed through to the output without any processing. This may result in a non-conforming conversion. E.g. CEA-708B packets during 4K to 1080i conversions.</p>
XIP3901DC-788	<p>No error is reported for 3G Level B DS sources.</p> <p>3G Level B Dual Stream input signals are not supported. They are erroneously identified as Dual Link. When this occurs, the error is not reported, but the output is invalid.</p>
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XIP3901DC-809	<p>Application version is not updated in the local menu.</p> <p>Upgrading an application that is not in use won't update its application version in the local menu. The version in the local menu is updated at boot time.</p>

UPGRADE PACKAGE: 1.0.0

Firmware version: [1.0.0 \(CPU 1.0.0.207, FPGA 1.0.0.82\)](#)

Release date: [2018-09-28](#)

iControl compatibility: [7.50+](#)

iControl Solo compatibility: [7.50+](#)

RCP-200 compatibility: [N/A](#)

Hardware compatibility: [This upgrade package applies to all existing hardware assemblies.](#)

Release type: [Official release](#)

KNOWN BUGS & LIMITATIONS

Ref #	Description
XIP3901DC-787	<p>Metadata conversion may not be processed properly.</p> <p>Incoming metadata is passed through to the output without any processing. This may result in a non-conforming conversion. E.g. CEA-708B packets during 4K to 1080i conversions.</p>
XIP3901DC-788	<p>No error is reported for 3G Level B DS sources.</p> <p>3G Level B Dual Stream input signals are not supported. They are erroneously identified as Dual Link. When this occurs, the error is not reported, but the output is invalid.</p>
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	<p>Some incoming metadata packets, other than audio or any processed metadata, may pass through to the output and may end up on an incorrect line.</p> <p>This will occur only for HD/3G-A outputs.</p>
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XIP3901DC-809	<p>Application version is not updated in the local menu.</p> <p>Upgrading an application that is not in use won't update its application version in the local menu. The version in the local menu is updated at boot time.</p>
XIP3901DC-833	<p>Application Manager does not show success after activating a license.</p> <p>The Application Manager panel is used to activate or switch between applications. It shows all the applications on the platform, their respective versions, whether their license keys have been activated, and which one is currently in use. It is accessed by clicking the Application button in the iControl XIP-3901-DC control panel.</p> <p>To activate an application, click the Activate button in the License column. In the Activate license dialog box that appears, enter the license key and click Activate. If the key is valid, the status window under the key should become green to indicate success but does not. Yet successful activation of the license is confirmed with the green check mark that now appears in the License column. The dialog box can now be closed. See the following image:</p>

Application	Version	License	In use
XIP-3901-UC	1.1.0.303	Activated ✓	<input checked="" type="radio"/>
XIP-3901-DC	1.0.0.201	Activated ✓	<input type="radio"/>

Green check mark = success

Activate license [XIP-3901-DC]

License key: 12345678 Activate

Status window

XIP-3901-XX is a software key that enables applications on the XIP-3901 platform.

To activate an application on this platform please contact Grass Valley a Belden Brand customer service at +1-514-333-1772 and specify the card's serial number 306501-124529002.