

MOD-DOLBY-DEC-2 – Upgrade Package 5.1.1.0

Upgrade Package Release History

Release Version	Comprising:		Release Date	Version Details	User Manual for this release (Grass Valley document #)
	Firmware Version	Software Version			
5.1.1.0	5.1.1.0	N/A	2014.05.31	(go)	N/A
5.1.0.0	5.1.0.0	N/A	2014.04.30	(go)	N/A

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: 5.1.1.0

Release date: [2014-05-31](#)

iControl compatibility: [4.13 \(build 49\)](#)

iControl Solo compatibility: [4.13 \(build 49\)](#)

RCP-200 compatibility: [NA](#)

Custom software compatibility: [NA](#)

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

ENHANCEMENTS & NEW FEATURES

Ref#	Description
---	None.

BUGS FIXED IN THIS RELEASE

Ref #	Description
DSP957-67	<p>MOD-DOLBY-DEC-2 starts with some default parameter values when the Densite card is reslotted.</p> <p>When the Densite card is inserted in the frame, some parameter values sent by the card to the MOD-DOLBY-DEC-2 module may not be received. The module maintains the corresponding default values but the card is not aware of this. In the case where a module and card value parameter is different, the card's iControl user interface will display a value that does not reflect the actual module configuration.</p>

KNOWN BUGS & LIMITATIONS

Ref #	Description
DSP957-4	<p>Pro Logic decoder does not create L/R/C/S channels.</p> <p>This Dolby Digital decoder does not contain a Pro Logic decoder. It will not be able to create the left, right, center and surround channels from a Lt/Rt downmix nor will it be able to upmix a PCM stereo source to obtain these channels. The Pro Logic decoder is not relevant for Dolby E signals.</p> <p>Workaround: None.</p>
DSP957-6	<p>Downmix function does not downmix the decoder's output.</p> <p>This Dolby Digital decoder does not contain a downmixer.</p> <p>Workaround: Use the downmix available in the Densite card's Audio Option. Although the option's downmix can follow the decoder's metadata, it cannot fully emulate a Dolby Digital downmix since it does not apply Dynamic Range Compression (DRC) profiles.</p>
DSP957-11	<p>Dolby Digital signal in subframe (16-bit) mode at high data rates is not correctly decoded.</p> <p>When the Dolby Digital signal is encoded in subframe (16-bit) mode on channel 1 (Left) or channel 2 (Right), the decoder is unable to correctly decode this signal if it has a data rate of 576 or 640 kbps. When in frame (32-bit) mode, this problem does not exist.</p> <p>Workaround: Use a data rate inferior to 576 kbps for subframe mode when encoding.</p>

<p>DSP957-12</p>	<p>Listen mode "EX" does not decode an existing center rear channel.</p> <p>This Dolby Digital decoder does not contain a Dolby Digital Surround EX decoder. An existing Center Rear channel matrixed onto the Surround Right (Rs) and Surround Left (Ls) channels will not be decoded. The Center Rear channel will be muted. Listening modes are not relevant for Dolby E signals.</p> <p>Workaround: None.</p>
<p>DSP957-15</p>	<p>Dolby Digital stream selection #0 will not automatically decode other streams.</p> <p>A unique stream number must be chosen by the user when encoding. Valid numbers are from 0 to 6 with the default being 0. When decoding a Dolby Digital signal, the Stream Select parameter allows the selection of the stream. If the incoming stream number and the chosen stream number do not match, the decoder will mute its outputs. The decoder will not automatically decode another stream if the chosen stream is not detected.</p> <p>Workaround: None. The incoming stream number must match the chosen stream number.</p>
<p>DSP957-18</p>	<p>"Extended bitstream information #2 exists" metadata parameter may not be correctly reported.</p> <p>When decoding a Dolby Digital signal, the "extended bitstream information #2 exists" metadata parameter is not extracted by the decoder. Because of this, the value is forced to be identical to the "extended bitstream information #1" because it is assumed that if #1 exists then #2 exists. Since this assumption may be false, the following associated parameters may not be correctly reported:</p> <ul style="list-style-type: none"> - Dolby Surround EX mode - Dolby Headphone mode - A/D converter type <p>The iControl interface shows the Dolby Surround EX mode value. If #1 exists but #2 does not, then the value shown will be "Not indicated". If #1 does not exist but #2 does, then the value shown will be "Not available".</p> <p>Workaround: None.</p>

<p>XVP3901-1444-</p>	<p>Updating the MOD-DOLBY-DEC-2 firmware fails when both MOD-DOLBY-DEC and MOD-DOLBY-DEC-2 modules are installed on a XVP-3901.</p> <p>For XVP-3901 versions prior to 320.</p> <p>The installed module's firmware version is indicated in the XVP-3901 iControl user interface. The MOD-DOLBY-DEC has a version that is 1.x.y.z and the MOD-DOLBY-DEC-2 has a version that is 5.x.y.z.</p> <p>The firmware update package for the MOD-DOLBY-DEC-2 module is different than the MOD-DOLBY-DEC package. The two installed modules are detected as Dolby E and Dolby Digital decoders by the XVP-3901 so it tries to apply the firmware update to both simultaneously. The update fails after the first file of the package since it is not recognized by the MOD-DOLBY-DEC module even though it was accepted by the MOD-DOLBY-DEC-2 module.</p> <p>Workaround: Physically remove the MOD-DOLBY-DEC module from the XVP-3901 and do the update again. If "MOD-DOLBY-DEC" is not indicated on the module, look for "Dolby Laboratories" or "CAT552". After successful completion, reinstall the MOD-DOLBY-DEC module.</p>												
<p>XVP3901-1615</p>	<p>Downgrading the MOD-DOLBY-DEC-2 firmware may fail.</p> <p>The MOD-DOLBY-DEC-2 module with the assembly number 0957-0100-3xx has a different flash component. Firmware versions starting with 5.0 are incompatible with this assembly. Firmware versions starting with 5.1 and later are compatible with all assemblies.</p> <p>The assembly number is indicated on a sticker on the module. This number is not shown in iControl.</p> <table border="1" data-bbox="272 1318 1485 1411"> <thead> <tr> <th>Firmware version</th> <th>0957-0100-1xx</th> <th>0957-0100-2xx</th> <th>0957-0100-3xx</th> </tr> </thead> <tbody> <tr> <td>5.0.x.x</td> <td>OK</td> <td>OK</td> <td>incompatible</td> </tr> <tr> <td>5.1.x.x and later</td> <td>OK</td> <td>OK</td> <td>OK</td> </tr> </tbody> </table> <p>If a Densite card (for example XVP-3901, DAP-1781, etc.) has a MOD-DOLBY-DEC-2 module with assembly number 0957-0100-3xx installed, downgrading to v5.0.x.x will fail because the module will block this incompatible firmware.</p> <p>If a Densite card with two slots (for example XVP-3901, etc.) has two MOD-DOLBY-DEC-2 modules installed, with at least one with assembly number 0957-0100-3xx, downgrading to firmware v5.0.x.x will fail for both modules because the process is aborted if at least one module upgrade/downgrade fails.</p> <p>Workaround: In the case of two MOD-DOLBY-DEC-2 modules installed, with one having assembly number 0957-0100-3xx, physically remove the MOD-DOLBY-DEC-2 module with the assembly number 0957-0100-3xx from the Densite card and do the downgrade again. When complete, reinstall the module.</p>	Firmware version	0957-0100-1xx	0957-0100-2xx	0957-0100-3xx	5.0.x.x	OK	OK	incompatible	5.1.x.x and later	OK	OK	OK
Firmware version	0957-0100-1xx	0957-0100-2xx	0957-0100-3xx										
5.0.x.x	OK	OK	incompatible										
5.1.x.x and later	OK	OK	OK										

---	<p>Miranda Interface Updater (MIU) v2.71 or later must be used to update the MOD-DOLBY-DEC-2 firmware</p> <p>The Miranda Interface Updater (MIU) v2.71 is the first version of the application that supports firmware upgrades of modules installed on Densite cards. The version is displayed in the Help > About menu. Refer to the iControl User Guide for instructions on the use of the Miranda Interface Updater.</p>
-----	---

UPGRADE PACKAGE: 5.1.0.0

Release date: [2014-04-30](#)

iControl compatibility: [4.13 \(build 49\)](#)

iControl Solo compatibility: [4.13 \(build 49\)](#)

RCP-200 compatibility: [NA](#)

Custom software compatibility: [NA](#)

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

ENHANCEMENTS & NEW FEATURES

Ref#	Description
---	None.

BUGS FIXED IN THIS RELEASE

Ref #	Description
DSP957-31	<p>Booting with a PCM input signal causes output noise.</p> <p>When the module boots with a PCM input signal and the decoding mode is set to Auto, the signal is not passed through to the output. Instead, noise is present until a Dolby Digital or Dolby E is sent to the input. A subsequent PCM input signal will be correctly passed through.</p>

DSP957-32	<p>Switching from PCM to Dolby Digital or Dolby E causes a glitch on Center channel.</p> <p>During the PCM fade-out in the case of a transition from PCM to Dolby Digital or Dolby E, part of the signal that should be output on the Left channel is found on the Center channel instead.</p>
-----------	---

KNOWN BUGS & LIMITATIONS

Ref #	Description
DSP957-4	<p>Pro Logic decoder does not create L/R/C/S channels.</p> <p>This Dolby Digital decoder does not contain a Pro Logic decoder. It will not be able to create the left, right, center and surround channels from a Lt/Rt downmix nor will it be able to upmix a PCM stereo source to obtain these channels. The Pro Logic decoder is not relevant for Dolby E signals.</p> <p>Workaround: None.</p>
DSP957-6	<p>Downmix function does not downmix the decoder's output.</p> <p>This Dolby Digital decoder does not contain a downmixer.</p> <p>Workaround: Use the downmix available in the Densite card's Audio Option. Although the option's downmix can follow the decoder's metadata, it cannot fully emulate a Dolby Digital downmix since it does not apply Dynamic Range Compression (DRC) profiles.</p>
DSP957-11	<p>Dolby Digital signal in subframe (16-bit) mode at high data rates is not correctly decoded.</p> <p>When the Dolby Digital signal is encoded in subframe (16-bit) mode on channel 1 (Left) or channel 2 (Right), the decoder is unable to correctly decode this signal if it has a data rate of 576 or 640 kbps. When in frame (32-bit) mode, this problem does not exist.</p> <p>Workaround: Use a data rate inferior to 576 kbps for subframe mode when encoding.</p>

<p>DSP957-12</p>	<p>Listen mode "EX" does not decode an existing center rear channel.</p> <p>This Dolby Digital decoder does not contain a Dolby Digital Surround EX decoder. An existing Center Rear channel matrixed onto the Surround Right (Rs) and Surround Left (Ls) channels will not be decoded. The Center Rear channel will be muted. Listening modes are not relevant for Dolby E signals.</p> <p>Workaround: None.</p>
<p>DSP957-15</p>	<p>Dolby Digital stream selection #0 will not automatically decode other streams.</p> <p>A unique stream number must be chosen by the user when encoding. Valid numbers are from 0 to 6 with the default being 0. When decoding a Dolby Digital signal, the Stream Select parameter allows the selection of the stream. If the incoming stream number and the chosen stream number do not match, the decoder will mute its outputs. The decoder will not automatically decode another stream if the chosen stream is not detected.</p> <p>Workaround: None. The incoming stream number must match the chosen stream number.</p>
<p>DSP957-18</p>	<p>"Extended bitstream information #2 exists" metadata parameter may not be correctly reported.</p> <p>When decoding a Dolby Digital signal, the "extended bitstream information #2 exists" metadata parameter is not extracted by the decoder. Because of this, the value is forced to be identical to the "extended bitstream information #1" because it is assumed that if #1 exists then #2 exists. Since this assumption may be false, the following associated parameters may not be correctly reported:</p> <ul style="list-style-type: none"> - Dolby Surround EX mode - Dolby Headphone mode - A/D converter type <p>The iControl interface shows the Dolby Surround EX mode value. If #1 exists but #2 does not, then the value shown will be "Not indicated". If #1 does not exist but #2 does, then the value shown will be "Not available".</p> <p>Workaround: None.</p>

<p>XVP3901-1444-</p>	<p>Updating the MOD-DOLBY-DEC-2 firmware fails when both MOD-DOLBY-DEC and MOD-DOLBY-DEC-2 modules are installed on a XVP-3901.</p> <p>For XVP-3901 versions prior to 320.</p> <p>The installed module's firmware version is indicated in the XVP-3901 iControl user interface. The MOD-DOLBY-DEC has a version that is 1.x.y.z and the MOD-DOLBY-DEC-2 has a version that is 5.x.y.z.</p> <p>The firmware update package for the MOD-DOLBY-DEC-2 module is different than the MOD-DOLBY-DEC package. The two installed modules are detected as Dolby E and Dolby Digital decoders by the XVP-3901 so it tries to apply the firmware update to both simultaneously. The update fails after the first file of the package since it is not recognized by the MOD-DOLBY-DEC module even though it was accepted by the MOD-DOLBY-DEC-2 module.</p> <p>Workaround: Physically remove the MOD-DOLBY-DEC module from the XVP-3901 and do the update again. If "MOD-DOLBY-DEC" is not indicated on the module, look for "Dolby Laboratories" or "CAT552". After successful completion, reinstall the MOD-DOLBY-DEC module.</p>												
<p>XVP3901-1615</p>	<p>Downgrading the MOD-DOLBY-DEC-2 firmware may fail.</p> <p>The MOD-DOLBY-DEC-2 module with the assembly number 0957-0100-3xx has a different flash component. Firmware versions starting with 5.0 are incompatible with this assembly. Firmware versions starting with 5.1 and later are compatible will all assemblies.</p> <p>The assembly number is indicated on a sticker on the module. This number is not shown in iControl.</p> <table border="1" data-bbox="272 1318 1485 1411"> <thead> <tr> <th>Firmware version</th> <th>0957-0100-1xx</th> <th>0957-0100-2xx</th> <th>0957-0100-3xx</th> </tr> </thead> <tbody> <tr> <td>5.0.x.x</td> <td>OK</td> <td>OK</td> <td>incompatible</td> </tr> <tr> <td>5.1.x.x and later</td> <td>OK</td> <td>OK</td> <td>OK</td> </tr> </tbody> </table> <p>If a Densite card (for example XVP-3901, DAP-1781, etc.) has a MOD-DOLBY-DEC-2 module with assembly number 0957-0100-3xx installed, downgrading to v5.0.x.x will fail because the module will block this incompatible firmware.</p> <p>If a Densite card with two slots (for example XVP-3901, etc.) has two MOD-DOLBY-DEC-2 modules installed, with at least one with assembly number 0957-0100-3xx, downgrading to firmware v5.0.x.x will fail for both modules because the process is aborted if at least one module upgrade/downgrade fails.</p> <p>Workaround: In the case of two MOD-DOLBY-DEC-2 modules installed, with one having assembly number 0957-0100-3xx, physically remove the MOD-DOLBY-DEC-2 module with the assembly number 0957-0100-3xx from the Densite card and do the downgrade again. When complete, reinstall the module.</p>	Firmware version	0957-0100-1xx	0957-0100-2xx	0957-0100-3xx	5.0.x.x	OK	OK	incompatible	5.1.x.x and later	OK	OK	OK
Firmware version	0957-0100-1xx	0957-0100-2xx	0957-0100-3xx										
5.0.x.x	OK	OK	incompatible										
5.1.x.x and later	OK	OK	OK										

---	<p>Miranda Interface Updater (MIU) v2.71 or later must be used to update the MOD-DOLBY-DEC-2 firmware</p> <p>The Miranda Interface Updater (MIU) v2.71 is the first version of the application that supports firmware upgrades of modules installed on Densite cards. The version is displayed in the Help > About menu. Refer to the iControl User Guide for instructions on the use of the Miranda Interface Updater.</p>
-----	---