

## XVP-3901 – Upgrade Package 3.4.0

### Upgrade Package Release History

Release Version	Comprising:		Release Date	Version Details	User Manual for this release (Miranda document #)
	Firmware Version	Software Version			
3.4.0	3.4.0	3.4.0	2015.12.01	<a href="#">(go)</a>	M886-9900-340
3.3.2	3.3.2	3.3.2	2015.04.24	<a href="#">(go)</a>	M886-9900-330
3.3.1	3.3.1		2014.05.16	<a href="#">(go)</a>	M886-9900-330
3.3.0	3.3.0	1.0.0	2014.03.31	<a href="#">(go)</a>	M886-9900-330
3.2.0	3.2.0		2013-01-25	<a href="#">(go)</a>	M886-9900-320
3.1.2	3.1.2		2012-04-04	<a href="#">(go)</a>	M886-9900-312
3.1.0	3.1.0		2011-08-29	<a href="#">(go)</a>	M886-9900-310
3.0.2	3.0.2		2011-06-03	<a href="#">(go)</a>	M886-9900-300
3.0.0	3.0.0		2011-03-31	<a href="#">(go)</a>	M886-9900-300
3.4.9	3.4.9		2010-12-02	<a href="#">(go)</a>	M886-9900-340

**NOTES:** The iControl compatibilities shown below are officially supported by Miranda. 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 Miranda documentation.

## UPGRADE PACKAGE: **3.4.0** (INOUT:2354, VPROC:1191, MICRO:3)

Release date: 2015-10-30

iControl compatibility: 5.0 (build 17) and up

iControl Solo compatibility: 6.0 (build 89) and up

RCP-200 compatibility: NA

Custom software compatibility: NA

Hardware compatibility: This upgrade package applies to all existing hardware assemblies.

## ENHANCEMENTS & NEW FEATURES

Ref#	Description
<a href="#">XVP3901-1705</a>	<b>SCTE-104 passthrough on a Down/Up conversion.</b>
<a href="#">XVP3901-1703</a>	<b>Automatic preset recall has a "no signal duration" that can go up to 2000ms</b>

## BUGS FIXED IN THIS RELEASE

Ref #	Description
<a href="#">XVP3901-1629</a>	<b>Output link a/b is freerun for 1080p59Hz/1080p50Hz level B Dual Link</b> Synchronized output link a/b on 1080p59Hz/1080p50Hz Level B dual link inputs using the external reference or URS
<a href="#">XVP3901-1628</a>	<b>No audio on 1080p59Hz/1080p50Hz level B Dual Link switch line</b> Switch line set to line 7 on both links (A and B)
<a href="#">XVP3901-1333</a>	<b>Skip/repeat audio of 2 seconds when video delay is less than the audio modules processing delay</b>

<a href="#">XVP3901-1539</a>	<b>HD Scaler creates repeated pixels at left edge of screen</b>
<a href="#">XVP3901-1637</a>	<b>Loading PGM ALC preset changes Global Mode</b>

## KNOWN BUGS & LIMITATIONS

Ref #	Description
	<b>Link a/b inversion when locked on 1080p59 Level B DL or 1080p50 Level B DL</b>
	<b>OUTPUT HAS an OFFSET of 1 line when locked on 1080p59 Level B DL or 1080p50 Level B DL</b>
XVP3901-1192	<b>Do not use this package to update a 3DX-3901 in XVP emulation mode.</b>
XVP3901-1526	<p><b>Wrong default values after card update.</b></p> <p>This can happen after updating to version 330 from a version previous to 320. The loudness global configuration may not have nominal values</p> <p>Two workarounds are possible:</p> <ol style="list-style-type: none"> <li>1) Reset the card parameters to the factory defaults.</li> <li>2) Reselect the meter mode to force default values.</li> </ol>
XVP3901-1605	<b>GPO 5 and GPO 6 are not available with XVP3901-FS-R rear.</b>
ICONTROL-16023	<p><b>Disabling Loudness Monitoring interrupts momentary loudness logging.</b></p> <p>If the XVP-3901 card is logging loudness data and loudness monitoring is enabled then disabled, the loudness logging activity may be interrupted, i.e. the log file will close while a new one is created. The overall effect is a loss of logged loudness data.</p>
ICONTROL-	<b>Loudness text alarm not reported to iControl GSM.</b>

16024	In the Alarm Configuration, the text alarm for loudness no longer represents the cards ability to measure multiple loudness programs.
RCP200-930	<b>XVP-3901 version 320+ not supported.</b> New features introduced in versions 320 and 330 and listed in this Release Note are not supported RCP-200 v1.8.

## UPGRADE PACKAGE: 3.3.2

Release date: [2015-04-24](#)

iControl compatibility: [5.0 \(build 17\) and up](#)

iControl Solo compatibility: [6.0 \(build 89\) and up](#)

RCP-200 compatibility: [NA](#)

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

## BUGS FIXED IN THIS RELEASE

Ref #	Description
<a href="#">XVP3901-1670</a>	<b>PRESETs don't work with new hardware/firmware supporting new dataflash</b> When loading "USER PRESET 2", the ALC gets loaded with corrupted values  WORKAROUND: Do no use the "USER PRESET 2".
<a href="#">XVP3901-1655</a>	<b>Micro-controller crashing when communication is overloaded</b>  When multiple clients are connected to the Densité frame with a controller of version 212 and later, the XVP can become unresponsive. A bug in the communication engine of the card has been exposed with the higher performance of the newer versions of the Densité controller.  WORKAROUNDS: <ul style="list-style-type: none"> <li>Downgrade the Densité controller of the frame to version 204</li> </ul>

<a href="#">DSERV-405</a>	<p><b>Modification of Loudness labels in the iControl service panel</b></p> <p>           « EBU R128-2010 » → « EBU R128-2010 (ITU BS.1770) »            « EBU R128-2011 » → « EBU R128-2014 (ITU BS.1770-3) »            « A85 ITU BS.1770-1 » → « ATSC A85:2011 (ITU BS.1770-1) »            « A85 ITU BS.1770-2 » → « ATSC A85:2013 (ITU BS.1770-3) »            « ARIB TR-B32 » → « ARIB TR-B32 (ITU BS.1770-3) »         </p>
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## KNOWN BUGS & LIMITATIONS

Ref #	Description
<a href="#">XVP3901-1673</a>	<p><b>Profile copy of USER PRESETs does not work.</b></p> <p>Using the profile function to copy a user preset from one card to another does not work: the destination card user preset will be corrupted when recalled (the same is true for all users 1 to 5). The problem does not occur if we use the "All" profile.</p> <p>WORKAROUND: Use the "Copy All" function.</p>
XVP3901-1192	<p><b>Do not use this package to update a 3DX-3901 in XVP emulation mode.</b></p>
XVP3901-1526	<p><b>SCTE-104 does not pass through on a Down/Up conversion.</b></p>
XVP3901-1526	<p><b>Wrong default values after card update.</b></p> <p>This can happen after updating to version 330 from a version previous to 320. The loudness global configuration may not have nominal values</p> <p>Two workarounds are possible:</p> <ol style="list-style-type: none"> <li>1) Reset the card parameters to the factory defaults.</li> <li>2) Reselect the meter mode to force default values.</li> </ol>
XVP3901-1605	<p><b>GPO 5 and GPO 6 are not available with XVP3901-FS-R rear.</b></p>

<p>ICONTROL- 16023</p>	<p><b>Disabling Loudness Monitoring interrupts momentary loudness logging.</b></p> <p>If the XVP-3901 card is logging loudness data and loudness monitoring is enabled then disabled, the loudness logging activity may be interrupted, i.e. the log file will close while a new one is created. The overall effect is a loss of logged loudness data.</p>
<p>ICONTROL- 16024</p>	<p><b>Loudness text alarm not reported to iControl GSM.</b></p> <p>In the Alarm Configuration, the text alarm for loudness no longer represents the cards ability to measure multiple loudness programs.</p>
<p>RCP200- 930</p>	<p><b>XVP-3901 version 320+ not supported.</b></p> <p>New features introduced in versions 320 and 330 and listed in this Release Note are not supported RCP-200 v1.8.</p>

## UPGRADE PACKAGE: 3.3.1

Release date: 2014-05-16

iControl compatibility: 5.0 (build 17) and up

iControl Solo compatibility: 6.0 (build 89) and up

RCP-200 compatibility: NA

Custom software compatibility: NA

Hardware compatibility: This upgrade package applies to all existing hardware assemblies.

## ENHANCEMENTS & NEW FEATURES

Ref#	Description
<a href="#">XVP3901-1590</a>	<b>FLASH AT45DB642D end of life</b> Added support for the new flash AT45DB621E

## BUGS FIXED IN THIS RELEASE

Ref #	Description
<a href="#">XVP3901-1543</a>	<b>OP-47 payloads carrying 2 packets with the same line will lose info</b> This bug concerns HD to SD conversions. When a second packet (or payload) is detected with the same line number, this data is pushed towards the next field so that it can be downconverted properly.

## KNOWN BUGS & LIMITATIONS

Ref #	Description
XVP3901-1192	<b>Do not use this package to update a 3DX-3901 in XVP emulation mode.</b>
XVP3901-	<b>SCTE-104 does not pass through on a Down/Up conversion.</b>

1526	
XVP3901-1526	<p><b>Wrong default values after card update.</b></p> <p>This can happen after updating to version 330 from a version previous to 320. The loudness global configuration may not have nominal values</p> <p>Two workarounds are possible:</p> <ol style="list-style-type: none"> <li>1) Reset the card parameters to the factory defaults.</li> <li>2) Reselect the meter mode to force default values.</li> </ol>
XVP3901-1605	<p><b>GPO 5 and GPO 6 are not available with XVP3901-FS-R rear.</b></p>
ICONCONTROL-16023	<p><b>Disabling Loudness Monitoring interrupts momentary loudness logging.</b></p> <p>If the XVP-3901 card is logging loudness data and loudness monitoring is enabled then disabled, the loudness logging activity may be interrupted, i.e. the log file will close while a new one is created. The overall effect is a loss of logged loudness data.</p>
ICONCONTROL-16024	<p><b>Loudness text alarm not reported to iControl GSM.</b></p> <p>In the Alarm Configuration, the text alarm for loudness no longer represents the cards ability to measure multiple loudness programs.</p>
RCP200-930	<p><b>XVP-3901 version 320+ not supported.</b></p> <p>New features introduced in versions 320 and 330 and listed in this Release Note are not supported RCP-200 v1.8.</p>



## UPGRADE PACKAGE: 3.3.0

Release date: [2014-03-31](#)

iControl compatibility: [5.0 \(build 17\)](#)

iControl Solo compatibility: [6.0 \(build 89\)](#)

RCP-200 compatibility: [NA](#)

Custom software compatibility: [NA](#)

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

## ENHANCEMENTS & NEW FEATURES

Ref#	Description
XVP3901-1601	<p><b>Add support for Dolby Digital Plus encoding.</b></p> <p>Support the MOD-DOLBY-ENC-D-2 v5.1 module.</p>

## BUGS FIXED IN THIS RELEASE

Ref #	Description
XVP3901-1594	<p><b>Dolby Digital Encoder: pre-encoded (non-PCM) input data corrupted in pass-through mode.</b></p> <p>The sample rate converter (SRC) on the MOD-DOLBY-ENC-D module was always activated thereby modifying and corrupting pre-encoded data passing through the encoder.</p>
XVP3901-1600	<p><b>Dolby module upgrade always fails if a previous module upgrade failed.</b></p> <p>If a Dolby module upgrade fails, for example when the upgrade is interrupted between 0 and 100%, the module will remain in boot mode even after reinserting the XVP-3901 card.</p>

## KNOWN BUGS & LIMITATIONS

Ref #	Description
XVP3901-1192	<b>Do not use this package to update a 3DX-3901 in XVP emulation mode.</b>
XVP3901-1526	<b>SCTE-104 does not pass through on a Down/Up conversion.</b>
XVP3901-1526	<p><b>Wrong default values after card update.</b></p> <p>This can happen after updating to version 330 from a version previous to 320. The loudness global configuration may not have nominal values</p> <p>Two workarounds are possible:</p> <ol style="list-style-type: none"> <li>1) Reset the card parameters to the factory defaults.</li> <li>2) Reselect the meter mode to force default values.</li> </ol>
XVP3901-1605	<b>GPO 5 and GPO 6 are not available with XVP3901-FS-R rear.</b>
ICONTROL-16023	<p><b>Disabling Loudness Monitoring interrupts momentary loudness logging.</b></p> <p>If the XVP-3901 card is logging loudness data and loudness monitoring is enabled then disabled, the loudness logging activity may be interrupted, i.e. the log file will close while a new one is created. The overall effect is a loss of logged loudness data.</p>
ICONTROL-16024	<p><b>Loudness text alarm not reported to iControl GSM.</b></p> <p>In the Alarm Configuration, the text alarm for loudness no longer represents the cards ability to measure multiple loudness programs.</p>
RCP200-930	<p><b>XVP-3901 version 320+ not supported.</b></p> <p>New features introduced in versions 320 and 330 and listed in this Release Note are not supported RCP-200 v1.8.</p>

## FIRMWARE VERSION: **320**

Release date: **2013-01-25**

iControl compatibility: **4.40 (build 24) and up**

iControl Solo compatibility: **4.40 (build 24) and up**

RCP-200 compatibility: **Not Supported**

Custom software compatibility: **N/A**

Hardware incompatibility: **This firmware applies to all existing hardware assemblies.**

## ENHANCEMENTS & NEW FEATURES

Bug#	Description
<a href="#">37941</a>	<b>Miranda ALC enhancement</b> Added True peak. Also added preset mode : EBU R128, A85 ITU BS.1770 and ARIB
<a href="#">ICONTROL-12709</a>	<b>Loudness Logging</b> Loudness logging up to 4 independent programs.
<a href="#">ICONTROL-12830</a>	<b>Loudness Measurement</b> Loudness measurement compliant to EBU R128, A85 and ARIB. Loudness measurement up to 4 independent programs : short Term, Momentary and True Peak max
<a href="#">ICONTROL-12826</a>	<b>Added field selection for AFD and VLI extraction</b> Extract AFD and VLI from : Field 1, Field 2 or Field 1&2
<a href="#">ICONTROL-16057</a>	<b>Added TX Optical Power</b>
<a href="#">37726</a>	<b>Added XDS implementation</b> Extract and insertion of V-Chip Program Rating. Extraction and insertion of Copy & Redistribution Control
<a href="#">37693</a>	<b>Local card edge control menu simplified, see user manual for new structure.</b> Removed advanced configuration.

## BUGFIXES

Bug#	Description
<a href="#">33569</a>	Correct 1080p59/1080p50 level B Dual link VPID
<a href="#">34207</a>	Distorted audio on power up or input format change
<a href="#">37954</a>	Able to restore profiles from older version
<a href="#">37941</a>	ALC Loudness measurement doesn't consider LFE for correction. Also weighting is applied on surround channels. As specified on ITU-r BS.1770-1
<a href="#">38082</a>	Disable driver of output B on bypass relay for XVP-3901-FS-R.

## KNOWN BUGS & LIMITATIONS

Bug#	Description
<a href="#">38062</a>	After updating to version 320 a factory reset may be required for the loudness global configuration setting to default to nominal values, or simply reselect the meter mode to force default values.
<a href="#">RCP200-930</a>	XVP3901 version 320 not supported
<a href="#">38030</a>	SCTE-104 does not pass-through on a Down/Up conversion
<a href="#">iCONTROL-16023</a>	Disabling Loudness Monitoring interrupt momentary loudness logging
<a href="#">iCONTROL-16024</a>	Loudness text alarm not reported to iControl GSM.
29635	<b>Do not use this package to update a 3DX-3901 in XVP emulation mode.</b>

## FIRMWARE VERSION: 312

Release date: [2012-04-04](#)

iControl compatibility: [4.11 \(build 27\) and up](#)

iControl Solo compatibility: [4.11 \(build 27\) and up](#)

RCP-200 compatibility: [1.32 and up](#)

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

## BUGFIXES

Bug#	Description
<a href="#">001-00-007911</a>	<p><b>Rare stability issue on the video output</b> In very rare conditions, the video output may become distorted. This fix is mostly preventive.</p>

## KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	<p><b>Do not use this package to update a 3DX-3901 in XVP emulation mode.</b></p>

## FIRMWARE VERSION: 310

Release date: [2011-08-29](#)

iControl compatibility: [4.11 \(build 27\) and up](#)

iControl Solo compatibility: [4.11 \(build 27\) and up](#)

RCP-200 compatibility: [1.32 and up](#)

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

## ENHANCEMENTS & NEW FEATURES

Bug#	Description
	<p><b>This version includes the new Automatic Preset Recall feature.</b></p> <p>With this feature, the card automatically recall user presets based on audio detection scheme. For example, a 5.1/2.0 detection scheme can be used to load a predetermined User Preset if 2.0 audio is detected and a different User Preset when 5.1 is detected. This feature has been implemented in many ANC's, but always as fixed configuration. This implementation is user-configurable in iControl only.</p>

## BUGFIXES

Bug#	Description
<a href="#">32754</a>	Audio click on change of user preset.

## KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	<b>Do not use this package to update a 3DX-3901 in XVP emulation mode.</b>

## FIRMWARE VERSION: **302**

Release date: [2011-06-03](#)

iControl compatibility: [4.0.3 \(build 65\) and up](#)

iControl Solo compatibility: [3.73 \(build 23\) and up](#)

RCP-200 compatibility: [1.32 and up](#)

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

## BUGFIXES

Bug#	Description
<a href="#">31724</a>	Cannot set card model other than full if none of the ALC options is enabled.
<a href="#">31660</a>	Output Aspect Ratio changes from 4:3 to 16:9 are not clean in Auto mode.

## KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	<b>Do not use this package to update a 3DX-3901 in XVP emulation mode.</b>

## FIRMWARE VERSION: 300

Release date: [2011-03-31](#)

iControl compatibility: [4.0.3 \(build 65\) and up](#)

iControl Solo compatibility: [3.73 \(build 23\) and up](#)

RCP-200 compatibility: [1.32 and up](#)

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

## ENHANCEMENTS & NEW FEATURES

Bug#	Description
<a href="#">30646</a>	Support Auto-ARC using automatic 4:3/16:9 output on SD output
<a href="#">30650</a>	AFD : Can now monitor and set a priority for the use of the 3 different AFD incoming flags (SMPTE-2016 AFD, VLI or WSS with 625 line systems).

<a href="#">30651</a>	AFD insertion: It is now possible to insert AFD, VLI and WSS simultaneously
<a href="#">30648</a>	MIRANDA ALC: supports 4 additional programs for a total of 8 programs
<a href="#">30647</a>	The card does Fingerprint generation for both SD and HD outputs
<a href="#">24693</a>	Supports Teletext conversion (SD) to OP-47 (HD) and OP-47 (HD) to Teletext (SD)
<a href="#">30408</a>	Supports CWDM and WDM SFP Optical Plug-in Cartridges
<a href="#">22611</a>	Incoming optical power is now reported.
<a href="#">22613</a>	Display the manufacturer name of the SFP cartridge installed
<a href="#">29927</a>	It is now possible to downscale HD signals to 704 or 720 pixel wide SD video.

## BUGFIXES

Bug#	Description
<a href="#">27425</a>	The Thumbnail player does not display correctly in 625 mode.
<a href="#">30609</a>	PCM Audio glitch when switching between two synchronous sources connected to input 1 and input 2.
<a href="#">30982</a>	AUDIO DEMUX SD : Doesn't support 8 samples per line

## KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	<b>Do not use this package to update a 3DX-3901 in XVP emulation mode.</b>



## FIRMWARE VERSION: 249

Release date: [2010-12-02](#)

iControl compatibility: [3.53 \(build 44\) and up](#)

iControl Solo compatibility: [3.53 \(build 5\) and up](#)

RCP-200 compatibility: [1.10 and up](#)

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

## BUGFIXES

Bug#	Description
<a href="#">29567</a>	<p><b>Permanent audio glitches after switch to DPS source</b></p> <p>Sometimes, permanent audio distortion is heard when switching to a source coming out of a DPS-7xx from Harris due to an uneven embedded audio sample distribution. The problem does not disappear until the card is reset. This bug has been introduced around v230.</p>
<a href="#">29650</a>	<p><b>ALMs stop streaming during normal operation</b></p> <p>The ALMs stop working after a certain time of normal operation. A card reset must be done to restart the ALMs. This bug has been present since the first release of the product.</p>

## KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	<b>Do not use this package to update a 3DX-3901 in XVP mode.</b>