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## LNS-3901

**NOTE:** The iControl compatibilities shown below are estimated initial support. iControl versions that are older than those specified may prevent the GUI from opening or may work with bugs and limited features.

### VERSION: 121

Release date: 2015-02-11

iControl compatibility: 5.00 (build 17) and later

iControl Solo compatibility: 6.0 and later

RCP-200 compatibility: Not supported

Custom software compatibility: Not supported

Hardware incompatibility: This firmware applies to all existing hardware assembly.

### ENHANCEMENTS & NEW FEATURES

Ref#	Description

### BUGFIXES

Bug#	Description
<a href="#">LNS3901-84</a>	Disabling the Bypass function renders the output with a different format for 3G sources. The output format returns to the same format as the input.

## KNOWN BUGS & LIMITATIONS

Bug #	Description
<a href="#">LNS3901-85</a>	<p><b>Removing input on rear with bypass relay may still assert a carrier detected.</b></p> <p>When a rear with the bypass relay is used and the input signal is physically removed or no signal is routed to the input, the LNS-3901 output video content may toggle between black and noise. This is due to a hardware limitation.</p>

## VERSION: 120

Release date: 2015-01-30

iControl compatibility: 5.00 (build 17) and later

iControl Solo compatibility: 6.0 and later

RCP-200 compatibility: Not supported

Custom software compatibility: Not supported

Hardware incompatibility: This firmware applies to all existing hardware assembly.

## ENHANCEMENTS & NEW FEATURES

Ref#	Description

## BUGFIXES

Bug #	Description
<a href="#">LNS3901-76</a>	<p><b>Removal of support for 1080p23/p25/p29.</b></p> <p>These formats are now officially unsupported.</p>
<a href="#">LNS3901-71</a>	<p><b>Add support for URS and 10-field ID references</b></p> <p>This feature seems to have been broken from previous version for film outputs.</p> <p>To correctly synchronize a 1080p23sF/1080p23 output signal with a reference source, the 10-field sequence identifier, SMPTE-318, needs to be embedded within the reference. This identifier may be extracted from the URS-59 reference signal provided a REF-1801 is installed within the same frame and an analog NTSC reference signal, conforming to SMPTE-170M and which contains the SMPTE-318 10-field sequence identifier, is connected to it.</p> <p>This information instructs the card the timing relation between 59Hz and 23 Hz to ensure the output timing relative to the NTSC reference connected to the REF-1801 is always correctly timed. The LNS-3901 must be configured to use the internal URS reference signal derived from the REF-1801.</p>

<a href="#">LNS3901-70</a>	<p><b>3G-B DL output not aligned with URS.</b></p> <p>There was a misalignment at the output with respect to URS. Field inverted. It is now repaired.</p>
<a href="#">LNS3901-69</a>	<p><b>Output video vertical offset when input video is cycled.</b></p> <p>With any reference connected, removing and re-inserting the input video renders the output with a vertical offset. In addition, the output timing with respect to reference is way off. Only by cycling the reference, changing format, or changing output timing V/H would place the output correctly. This has been repaired.</p>
<a href="#">LNS3901-68</a>	<p><b>3G-B output may sometimes unlock when switching at the input.</b></p> <p>When deglitching between 2 3G-B sources and, say, an NTSC reference, the output sometimes loses lock after a switch. This has been repaired.</p>
<a href="#">LNS3901-66</a>	<p><b>3G-B VPID output not updated when switching from 1080i with VPID.</b></p> <p>A corrupt 3G-B output may occur when switching from 1080i to 3G-B. It has been noticed that if a 1080i signal has a VPID present and switching to a 3G-B source, the LNS-3901 output VPID is that of the previous 1080i signal.</p>
<a href="#">LNS3901-61</a>	<p><b>3G-B DL Input timing measurement off when input timing beyond a few lines.</b></p> <p>The input 0H timing measurement for 3G-B has been realigned and measurement can now go beyond a few lines.</p>
<a href="#">LNS3901-54</a>	<p><b>I-Control and menu display 3G-B DS when signal is 3G-B DL.</b></p> <p>This has been repaired.</p>
<a href="#">LNS3901-80</a>	<p><b>Switching between HD sources with different VPID's causes content glitches.</b></p> <p>When switching between HD sources with different VPID's, the output video content glitches. This has been repaired.</p>

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**KNOWN BUGS & LIMITATIONS**

Bug #	Description
<a href="#">LNS3901-78</a>	<p>When switching between 720p59.97Hz sources, it is possible that the card LED flashes red generating a GSM Card LED alarm.</p> <p>This bug does not affect the output video. Provided the switch is made between properly aligned sources, no glitch shall appear at the output.</p>

## VERSION: 110

Release date: [2014-02-04](#)

iControl compatibility: [5.00 \(build 17\)](#)

iControl Solo compatibility: [NA](#)

RCP-200 compatibility: [NA](#)

Custom software compatibility: [NA](#)

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

## ENHANCEMENTS & NEW FEATURES

Ref#	Description
	<p><b>Advanced programmable line synchronizer with low processing delay</b></p> <p>The LNS-3901 was designed to support hot switches between two inputs up to 10 lines apart. The output timing is programmable and can be set from 0.5 to 10.5 lines after the reference. The processing delay was optimized for all formats including 3G Level B-DL.</p>

## BUGFIXES

Bug#	Description

## KNOWN BUGS & LIMITATIONS

Bug#	Description
<a href="#">LNS3901-10</a>	<p><b>Limitation - 1080p23SF supported only with SMPTE 318 with URS</b></p> <p>To correctly synchronize a 1080p23SF input format with the reference, you</p>

	<p>have to use an NTSC black burst reference which has a SMPTE 318M information and connect it to the REF-1801. This information will tell the card the timing relation between 59Hz and 23 Hz to ensure all cards have exactly the same output timing. Without it, all 23pSF output will be synchronous, but they may have a different output timing adjustment. The cards must be configured to use the internal URS reference signal coming from the REF-1801 card.</p>
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