

# Release Note

## ABCL V01.14

<b>Firmware name:</b>	ABCL V01.14		
<b>Released:</b>	21th August 2014		
<b>Package name:</b>	abcl_kit_v0114_20140821		
<b>Version overview:</b>	<b>Type</b>	<b>File name</b>	<b>Version Date</b>
	Firmware	abclw.rom	V01.14_20140821
	WEB UI	abclapp.cob	V02.07_20140820
	FW Ext. 1	sg.bin	V10.10_20140730
	FW Ext. 2	fs.bin	V02.08_20140820
	FW Ext. 3	bclio.bin	V02.02_20140808
	Bootloader	unifull.spb	V99.26_20120223

## 1 Hardware Compatibility

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This firmware is intended to run on the following devices:

- Exstreamer 100, 105, 110, 120, 200, 205, 500, 1000, P5
- Annunicom 60, 100, 155, 200, 1000, PS1, PS16
- Instreamer 100
- IPAM 100, 101, 102, 200, 300

## 2 New Features

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The following new features have been introduced in ABCL V01.14 (since version 1.13):

- #53.92: added support for IPAM 300 rev 1.5
- #53.96: added new payload type 113 for PCM 24kHz stereo BE
- #53.99: optimized codec firmware load, which significantly speeds up audio open
- #59.24: factory defaults via web protects ethernet port selection (on PS16)
- #063.29: long filenames in directory read
- #65.24: PS16 LCD timing updated to work with new displays
- #96.48: added current GW, netmask and DNS to status page
- add support for new vsc model 95A03-1, with configurable font size

## 3 Bugs Fixed In This Version

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The following bugs have been fixed in ABCL V01.14 (since version 1.13):

- #53.94: fixed bug DSP stops responding on IPAM 101/301
- #63.28: fixed false filesystem detection on devices without USB
- #63.34, #63.35: bugfixes in filesystem module
- #66.22: fixed bug TCP connection fails if remote port is same as in previous connection
- #66.23: fixed bug IGMP Response sometimes sent after 1.8 hours
- #67.16: fixed race condition in IGMP JoinGroup

## 4 Known Issues

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### 4.1 IPAM 101

- Sampling frequencies 44.1kHz, 22.05kHz and 11.025kHz not supported in encoding-only and full duplex modes
- Input peak level indication copies left → right if mono encoding is selected

- Mono line input settings (copy signal from left channel to the right channel) not supported in combination with stereo encoding
- Significantly higher minimum decoding latency

## 4.2 IPAM 102

- Sampling frequencies 44.1kHz, 22.05kHz and 11.025kHz supported in encoding only, but not in full duplex
- Input peak level indication copies left → right if mono encoding is selected
- MP3 encoder: CRC, copyright and original/copy setting not configurable
- encoding loopback (monitoring) volume not configurable
- encoding loopback 7dB weaker than IPAM 100
- 2dB output signal difference between IPAM 102 and IPAM 100 (IPAM102 weaker)

# 5 Major Modifications

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## 5.1 Support for new hardware

This ABCL kit supports the new hardware revisions of PS16 and Exstreamer:

- PS16 with new display module
- Exstreamer 100, 105, 110, 120, 200, 205 and P5 with IPAM 300 revision 1.5

## 5.2 Support for new VSC

Support for the new VSC panel with 4 buttons instead of rotary knob has been added. The display can be configured to either 2 larger characters (default) or 8 smaller characters. The character size is selectable by the Setup field B260 (see the Technical Documentation).

## 5.3 New RTP payload type

A new payload type 113 has been defined for PCM 24kHz stereo big-endian.

## 5.4 Audio open optimization

The codec firmware loading procedure was optimized. This reduces the audio open time on all VLSI based hardware, especially the VS1063.

## 5.5 Long filenames in directory read

Directory read now supports long filenames. See the updated BCL Programmers Manual for more details.

## 6 References

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	Document
[1]	BCL Programmers manual 1.19
[2]	ABCL Technical Documentation

## 7 Legal Information

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