# Release Note

## ABCL V01.09

<table>
<thead>
<tr>
<th>Firmware name:</th>
<th>ABCL V01.09</th>
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<tbody>
<tr>
<td>Released:</td>
<td>23. October 2012</td>
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<tr>
<td>Package name:</td>
<td>abcl_kit_v0109_20121023.zip</td>
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## Version overview:

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<tr>
<th>Type</th>
<th>File name</th>
<th>Version Date</th>
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<tbody>
<tr>
<td>Firmware</td>
<td>abclw.rom</td>
<td>V01.09_20121023</td>
</tr>
<tr>
<td>WEB UI</td>
<td>abclapp.cob</td>
<td>V01.16_20120404</td>
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<tr>
<td>FW Ext. 1</td>
<td>sg.bin</td>
<td>V09.23_20121017</td>
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<tr>
<td>FW Ext. 2</td>
<td>fs.bin</td>
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<td>FW Ext. 3</td>
<td>bclio.bin</td>
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<tr>
<td>ES Module</td>
<td>esnd.rom</td>
<td>V00.05_20091230</td>
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<tr>
<td>Bootloader</td>
<td>unifull.spb</td>
<td>V99.26_20120223</td>
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1 Hardware Compatibility

This firmware is intended to run on the following devices:

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

No new features has been introduced since ABCL version 1.06. The release 1.09 is purely bug-fixing.
3 Bugs Fixed In This Version

The following bugs have been fixed in the ABCL v01.09 (compared to version 1.06):

- #47.86 and #53.69: 1 second delay between audio open in encoding/duplex and any audio data are encoded. Delay reduced to 62ms.
- #61.55: channel swap at 32kHz PCM full-duplex – decoding
- #100.33: old audio still played after audio close and reopen, resulting in noisy artefacts if volume changes
4 Known Limitations

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

None.
6 References

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<th>Document</th>
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7 Legal Information

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