

Release Note

Instreamer V4.03

Firmware name:	Instreamer V4.03		
Released:	28th. October 2013		
Package name:	instreamer_kit_vb403_20131028.zip		
Version overview:	Type	File name	Version Date
	Firmware	instreamer.rom	VB4.03_20131024
	WEB UI	instreamerapp.cob	V02.01_20131024
	SonicIP	sonicip.cob	V01.04_20070625
	FW Ext.	sg.bin	V10.01_20131008
	FW Ext.	xt05.bin	V00.03_20050317
	FW Ext.	bclo.bin	V01.24_20130226
	Bootloader	UNIFULL.SPB	V99.26_20120223

1 Hardware Compatibility

This firmware can run on the following Barix device supporting audio input:

- Instreamer (new)
- Instreamer 100
- Exstreamer 1000
- Exstreamer 500
- Annunicom 100
- Annunicom 200
- Annunicom 155
- Annunicom 1000

2 New Features

The following new features have been added, since version 4.02, to the Instreamer V4.03.

- #13.65. Help information added to the WEB UI that on the new Instreamer, Bit Reservoir Mode = Use should be used in CBR mode for the best audio quality.
- #060.68: WEB UI Updated with new Barix Logo and icon.
- #060.72: The Network Configuration in the status page is expanded to include the information shown in the Network Advanced Settings page. This includes the DNS configuration. A new method is added to return the Current Web Server Port:
`&LState(3, "%u", 55);`
- #060.79: The file: BARIXAUDIOSNMP.MIB included in the package has been updated to make it more acceptable to OpenNMS.

3 Bugs Fixed In This Version

The following bugs have been fixed in the Instreamer V4.03 (since version 4.02):

- #13.66: Now the correct CBR bitrate value for 160 kbit is shown on the web configuration .
- #60.51: The AD Gain now shows a dB value on the Status page.
- #60.61: RTP no longer broadcasts to or from UDP port 0.
- #60.71: AES/EBU now allowed as an option on an Ex1000.
- #60.74: Logged for the Instreamer but covered in #66.16 below.
- #60.75: When configured as ICE Cast source, does not recover from break in connection.
- #60.76: When configured as ICE Cast source, sometimes acts as a server.
- #60.77: CBR now correctly supported in an ice cast header.
- #60.78: RAW UDP PCM byte swapping corrected so that both Big Endian(BE) and Little Endian (LE) supported on both types of Instreamer HW.
- #66.18: DHCP now automatically renews after losing a connection to the DHCP server.
- #66.24: TCP handling of lost segments corrected.
- Various corrections have been made to the audio module (song). This is a selection relevant for the Instreamer:
 - #53.69 A potential 1 second delay on the first Audio open has been eliminated.

- #53.82 MIC gain could now include 12, 15, 18 dB if set up on the WEB UI.

4 Known Bugs/Restrictions

- **Exstreamer 1000/500 Audio input.** There is a HW restriction on the Exstreamer 1000 and the Exstreamer 500. #70.02

External Analogue to Digital circuitry can be selected for 32 and 48 KHz input speeds. This provides a better input signal to noise ratio but the A/D gain is fixed at 0dB and cannot be adjusted.

The analogue line input is still fed into the codec and the home page input peak values continue to show the internal amplified values. As a work around set the A/D amplifier gain to 0dB when selecting Line Ext ADC.

- **Annunicom 100/200 Audio input.** The default audio input source is Line stereo which is not supported on the Annunicom 100/200 HW. So when loading the Instreamer SW into this HW, please select either Line mono or Mic as an input source.

The home page Left channel shows the input peak value.

- **Annunicom 100 with IPAM102.** The informative MP3 header information is not fully supported on the IPAM 102 module. To make this clear the unsupported **Advanced Encoder Settings** on the audio WEB page will not appear.
- **Discovery Tool V0.15.** Use this version of the discovery tool to find the IPAM type. If problems are reported this value may be requested by Barix support.
- **The RTS signal** stays active after a reboot.

This can be worked around by switching the signal to an inactive state on the home page.

- **Shoutcast V2** is not fully supported.
- **Relaying Shoutcast mode over Icecast** may experience start up problems.
- **Cannot update FW** if both view and save passwords are set.

5 Major Modifications

There were no major modifications in this release.

6 References

	Document
[1]	Instreamer Technical Documentation
[2]	Instreamer Manual
[3]	Barix discovery tool application note for V0.15

7 Legal Information

© 2013 Barix AG, Zurich, Switzerland.

All rights reserved.

All information is subject to change without notice.

All mentioned trademarks belong to their respective owners and are used for reference only.

Barix and Instreamer are trademarks of Barix AG, Switzerland and are registered in certain countries.

For information about our devices and the latest version of this manual please visit www.barix.com.

Barix AG
Seefeldstrasse 303
8008 Zürich
SWITZERLAND

T +41 43 433 22 11
F +41 44 274 28 49

www.barix.com
sales@barix.com
support@barix.com