



# INSTREAMER (new)

## General Purpose Network IP Audio Encoder



- Standalone IP Audio Encoder Device with support for MP3, PCM and VoIP (uLAW/aLaw) audio codecs
- Supports IP streaming standards such as TCP/IP, RTP, SIP, Shoutcast, Multicast
- Simple browser based device management, SNMP Monitoring
- Very low power requirements, high reliability
- Developed in Switzerland by Barix, known for reliable IP Streaming products since more than 10 years

- Live Encoder for Internet Radio applications
- Confidence Monitoring in Broadcast Applications
- Source Encoder for IP Audio distribution systems
- Background Music and Music-On-Hold encoder for IP Phone systems
- Shoutcast/Icecast source
- Low Latency Multicast Multichannel distribution of Audio for Video Walls

The Barix Instreamer is an upgraded version of the Instreamer 100, the original IP Audio encoder used in thousands of installations worldwide. It is a versatile, network-enabled, generic analog audio IP encoder suitable for audio distribution, monitoring and transmission purposes in Broadcast, Retail, Security and Entertainment industries alike.

The Barix Instreamer samples and encodes audio from a (stereo or mono) analog source into high-quality MP3 or PCM/uLaw/aLaw streams with low latency. The resulting audio stream then is distributed over IP using industry standard and application specific protocols (shoutcast, RTP and others, multicast supported)

Network alarms (SNMP Traps) can be generated for configurable events such as loss of audio, audio levels above a certain threshold and the like.

Specific application firmware is available from Barix or can even be programmed by Barix and integrators alike to suit special, non-standard applications. One example is the Barix SIP application, which turns the Instreamer in an audio-dial or call-in monitoring device.

The Barix Instreamer can be easily configured and managed with a web browser. A link on the UI allows direct listening to the audio feed in real time.

With serial and Ethernet control APIs, open IP-standards and support for PCM, G.711 and MP3, the device can be integrated with other components, controlled by automation systems, or used with Barix's Exstreamer to create flexible, standards-based and cost effective solutions in many markets.

## Technical Specifications

### Electrical

5V, max. 1A through Mini-USB connector  
External power adaptor, 100-240VAC, 5W, included

### Ethernet

RJ45, 10/100Mbps auto, Link & Activity LEDs  
Protocols: TCP/IP, UDP, RTP, DHCP, SNMP, SIP  
AutoIP, SonicIP, IPZator to ease address assignment

### RS-232

300..230'400 Baud asynchronous, 7/8 bit  
DSub 9 pin male  
serial tunnel, control and metadata input support

### Audio Input

RCA connectors, 4Vpp max. level  
Frequency range 20Hz.. 20kHz (-3dB)\*  
Dynamic range tbd, tbd, THD <tbd% (-3dBFS)\*  
Input signal attenuable by software setting

### Headphone Output

3.5mm jack  
volume adjustable via browser  
announcement of IP address (SonicIP)  
general purpose audio output, depending on used codec

### Audio formats

MP3, encoding/decoding up to 192/320kbps  
VBR and CBR support  
PCM 16bit @8, 16, 22.05, 24, 32, 44.1, 48 kHz  
G.711, uLaw, aLaw (sample rates same as PCM)

### Mechanical

Aluminum case, 225g, separate mounting bracket available  
4.25" x 1.5" x 3.1" (108mm x 38mm x 78.7 mm)

### Software Environment

Proprietary multitasking OS  
Application firmware packages available from Barix  
Development Environment for custom functionality  
(ABCL development kit) available free of charge

**MTBF** (calculated according to MIL217F at 25°C)  
min. 100.000h (exact value tbd)

\* depends on used codec, best results @48kHz PCM

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## Environmental

### Operating Environment

Standard 0°C to +50°C / 32 to 122°F

0 - 70% relative humidity, non-condensing  
Contact us for larger temperature range options

### Storage Conditions

-20 to +70°C / -4 to 158°F  
0 - 70% relative humidity, **non-condensing**

## Certifications/compliant with

**RoHS (lead free), FCC, CE, C-Tick**

### Immunity

according to EN 55024, EN 61000-6-2

### Emissions

according to EN 55022, EN 61000-3-2, -3-3

### Product Safety

according to EN 60590

## Ordering Information

Instreamer EU Package	2012.9121
Instreamer US Package	2012.9123
Instreamer UK Package	2012.9124
Instreamer noPSU Package	2012.9125

Device and power supply, individual packaging in cardboard box with sleeve.

This device replaces the Instreamer 100 product which has been produced until 07/2012

For further information, product manual, application notes, available software, related products etc, please visit <http://www.barix.com>

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