



Compact 1 RU Profile for
Live Newsgathering

IFB SERVER AND CLIENT

Target Markets and Applications

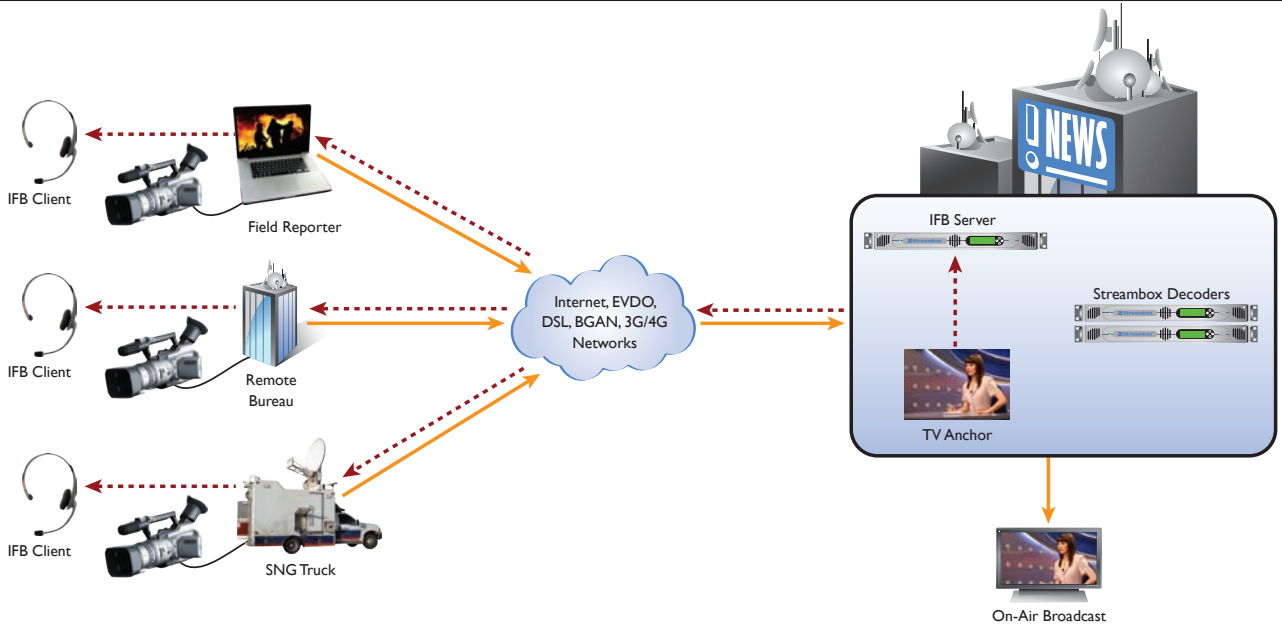
Live Newsgathering • Broadcasting • Emergency Response •
Government and Military • Distance Learning • Enterprise Streaming • Telemedicine

The Streambox IFB Server and Client play an integral role in the work flow between the studio, anchor, and field reporter. It enables the news studio to communicate live with the field reporter over the back channel IP connection established for the video stream. It also helps the studio provide cues and information to the field reporter about, for example, the on-air schedule. The IFB Server and Client are widely used for real-time talk-back and Q & A between the field reporter and the anchor. It is especially effective for in-depth coverage of breaking news stories over low latency IP network connections.



The Streambox IFB Server and Client are compatible with the entire suite of Streambox platform solutions, from small form factor encoding clients and software, to video management and playout systems.

The Streambox Platform



The IFB Server is typically located at the studio's control room or at another central broadcast location. The Server has a microphone connected to the appropriate audio channel for the incoming audio feed from the field reporter or remote bureau. The IFB client or the field reporter's laptop connects to the appropriate channel, USB, or Bluetooth compatible clients. The system features adjustable buffer size and audio quality settings which help ensure optimal performance over a variety of low latency IP network connections.

SOLUTION FEATURES

- Centralized IFB Server
- Efficient routing of incoming and outgoing audio streams over the back-channel IP connection
- Support for up to twelve simultaneous audio streams
- 2 to 12 analog channels of balanced 1/4" TRS
- High quality, low latency audio streams
- User selectable audio output devices such as wireless Bluetooth clients, USB/XLR audio adapters, or wired connections

IFB SERVER AND CLIENT

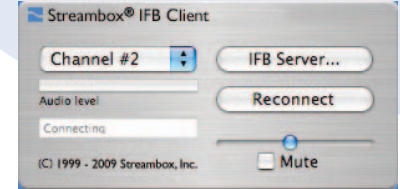
STREAMBOX IFB CLIENT

The Streambox IFB Client is a software plug-in which is launched from the field reporter's or the remote bureau's Windows® or Mac OS® compatible laptops. It enables the reporter to communicate live with the studio and the anchor over the back-channel IP connection already established for the video feed. In order to launch the IFB Client software, the reporter types in the IP address for the IFB Server. The audio signal then gets encapsulated into a data stream, transmitted to the IFB Server, and output to the anchor and vice versa.

Windows® Interface



Mac OS® Interface



IFB SERVER



AUDIOFIRE I2



TECHNICAL SPECIFICATIONS

Audio Channels:	12 channels
Audio Inputs:	Balanced Analog 1/4" TRS connectors +4dBu or -10dBV nominal (software configurable) Maximum Input Level +17.5dBu
Audio Encoding:	2-12 ch, GSM 8 KHz, speed 8 KHz, 16 KHz, 32 KHz
Bandwidth:	8 Kbps (variable)
Encoding Latency:	40 ms (variable)
Network:	Dual Ethernet 10/100/1000 Mbps IEEE 802.3, 802.3u, 802.3ab RJ-45 dual port
Network Protocol:	Audio Stream: UDP Audio Request: UDP Remote Desktop: TCP
Connection:	Audiofire-IFB Server: IEEE-1394
Software Console:	Setting, monitoring and metering
Setup & Control:	VGA, USB keyboard and mouse; Windows Remote Desktop; Front access LCD panel and keypad; SSD storage for reliability and upgrades
Power Requirement:	100-240 V AC 50/60Hz Redundant power supply, hot swappable
Power Consumption:	IFB Server: 130W maximum Audiofire: 20W maximum
Dimensions:	IFB Server: 1 RU 1.77"H x 18.9"W x 20.67"D; 4.5cm H x 48cm W x 52.5cm D Audiofire: 1 RU 1.75" x 19"W x 7"D; 4.4cm H x 48.3 cm W x 17.8cm D
Weight:	IFB Server: 25 lbs, 12 kg Audiofire: 7 lbs, 3.2 kg



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