



Full-Duplex 2 RU Profile for
Broadcast Video

SBT3-7400 SERIES



The Streambox Platform

Target Markets and Applications

Video conferencing • Interactive learning • Video depositions and law enforcement • Bidirectional video worship • Armed forces operations • Surveillance and security • Point-to-point and point-to-multipoint video distribution • Telemedicine

The Streambox SBT3-7400 system delivers stunning full-motion, full frame interlaced broadcast video and audio over satellite and IP-based networks for all live and file-based applications.

The core feature of the SBT3-7400 system is its full duplex mode which enables each unit to operate as an encoder and a decoder at the same time. The solution facilitates simultaneous transmission and receiving, making it ideal for real-time video conferencing purposes, including video depositions, interactive learning, telemedicine, factory monitoring, and bidirectional video worship.

Streambox ACT-L3 encoders excel over low bandwidth while providing unrivaled video compression and quality. Streambox ACT-L3 Video Transport solutions have been specifically developed to meet the performance, compression, and quality requirements of broadcasters, government agencies, and enterprises. Our products are highly reliable and flexible, making them the video transport solution of choice for customers around the world.



SOLUTION FEATURES

- Full duplex mode for simultaneous transmission and receiving
- Unrivaled video compression and quality at low data rates
- 4:2:0 and 4:2:2 color profiles
- Best-of-class performance and reliability with advanced networking features
- Advanced forward error correction and burst error protection.
- Low end-to-end latency. Provides adjustable latency for video conferencing or broadcasting
- Cost-effective newsgathering and video conferencing
- Seamless local or remote system management
- Optional store and forward feature for enhanced storage, management, and transmission of video over packet based networks
- User configurable presets for quick and flexible setup

ENCODER / DECODER



TECHNICAL SPECIFICATIONS

Video Formats:	NTSC/59.94i, PAL/50i
Video Encoding:	Resolution: D1, 3/4, 2/3, 1/2, CIF, QVGA Frame rate: full, 3/4, 1/2, 1/3, 1/4, 1/5, 1/10
Audio Codecs:	AAC, GSM, and CELP Up to 64 Kbps per channel 44.1 or 48 KHz sampling rate
Streaming Rate:	User selectable from 64 Kbps to 6 Mbps
Audio Inputs:	6-ch SDI, 2-ch AES, 2-ch Analog XLR
Audio Outputs:	6-ch SDI, 2-ch AES, 2-ch Analog XLR
Closed Caption:	Line 21 encoding, transmission, and decoding
Video System:	D/A and A/D. Time-Base Correction for analog video. Genlock. Audio embedding/de-embedding
Video Inputs:	Composite, SDI (SMPTE-259M), Genlock
Video Outputs:	Composite, SDI (SMPTE-259M), Genlock
Encoding Latency:	Adjustable from .2 seconds to 10 seconds
Video Post Filtering:	Advanced interlaced/progressive post filtering, including de-blocking, de-mosquito, and anti-aliasing
Video Pre-filtering:	Noise pre-filter, adjustable de-interlacing
Network Interfaces:	Ethernet
Network Protocol:	Stream: Multicast/Unicast UDP Web Interface and Remote Desktop: TCP
Setup & Control:	Front access LCD panel and keypad. SSD storage for reliability and upgrades. VGA output, USB ports
Forward Error Correction:	Adjustable, 0% to 50%, Reed-Solomon, Parity, Shuffle
Options:	Store and Forward
Power Requirement:	100-240 V AC 50/60 Hz
Power Consumption:	150W maximum
Dimensions:	2 RU 3.5"H x 16.75"W x 16.25"D 8.9cm H x 42.5cm W x 41.3cm D
Weight:	25 lbs, 11.3 kg



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