

Stagebox Camera Back



VIDOVATION

Moving Video Forward

Camera-Back IP Transceiver for most SDI hand-held Camera Systems



Stagebox

Stagebox with optional Synchronous
Switch with GPS Clock

Stagebox - "Bringing IP to the Camera"

The intention of Stagebox is to enable considerably more efficient workflows and significantly reduce the CAPEX and OPEX of high quality broadcasting. To realize this intention, Stagebox drives the Broadcaster away from traditional video and audio infrastructures towards IP Networking, and Internet Technologies.

Stagebox has been developed as a simple means of providing television production connectivity over Internet Protocol connections. The Stagebox unit includes all the conversions necessary between industry standard video, audio, time code, sync and control signals and standard packet-based IP networks, providing full studio camera connectivity through a single Cat5e/6 cable. This has the potential to revolutionize studio and outside broadcast production methods by substituting low-cost network equipment for the dedicated infrastructure of the professional television studio or outside broadcast environment. The Stagebox may eliminate or reduce the size of mobile production trucks. This has advantages both in reducing costs and providing increased flexibility in television production methods.

The Stagebox unit broadens its range of applications by providing interfaces to legacy equipment, including RS232 and RS422 serial data signals widely used for control signal interconnections.

FEATURE HIGHLIGHTS:

VIDEO CHANNELS

- One HD SDI In
- One HD SDI Out

VIDEO COMPRESSION

- Bi-directional real time encoding and decoding of AVC-Intra 100.

AUDIO

- SMPTE
- Up to eight pairs of embedded audio per video channel.
- Additional one pair discrete analogue audio, available via balanced XLR connectors.

SYNCHRONIZATION

- Time code
- Reference
- Analogue black burst
- Network clock

DATA AND CONTROL PATHS

- Multi-purpose data channel for either RS232/422/485
- Ad-hoc Wifi for local configuration
- Tally
- Talkback

NETWORK ENCAPSULATION

- Real time media
- Video, Audio and Timecode encapsulated within RTP
- Multicast (IGMPv3) Supported
- Timing Reference
- Generated from PTP (IEEE 1588) timing signal

PHYSICAL

- Network Interface
- SFP module, copper (1Gb Ethernet) or fiber optic
- Camera Cable
- Neutrik opticalCON®
- With power 800ft
- Without power 2km
- Neutrik etherCON® for rugged copper Ethernet



VIDOVATION

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www.vidovation.com

Toll Free: 1.855.VidOvation

Tel: 949.777.5435

E: sales@vidovation.com

Specifications:

I/O	CONNECTOR	ELECTRICAL INTERFACE
Analogue audio input	XLR 5 pin Female pin1 => GND pin2 => ch1 hot pin3 => ch1 cold pin4 => ch2 hot pin5 => ch2 cold	Balanced pro line level (+4dBu nominal) input impedance (approx 10KΩ) 24-bit 2ch (48 kHz) linear PCM
Analogue audio output	XLR 5 pin Male pin1 => GND pin2 => ch1 hot pin3 => ch1 cold pin4 => ch2 hot pin5 => ch2 cold	Balanced pro line level (+4dBu nominal) output impedance (approx 50Ω) 24-bit 2ch (48 kHz) linear PCM
SMPTE LTC in (Linear Time Code)	DIN 1.0/2.3 75Ω	SMPTE 12M 0.2V to 5Vp-p approx 10KΩ
SMPTE LTC out (Linear Time Code)	DIN 1.0/2.3 75Ω	SMPTE 12M 800mVp-p output 75Ω
Genlock in (black,burst, sync)	DIN 1.0/2.3 75Ω	As per composite video. 75Ω (1Vpk-pk when loaded with 75Ω)
Genlock out (black,burst, sync)	DIN 1.0/2.3 75Ω	As per composite video. 75Ω (1Vpk-pk when loaded with 75Ω)
IP	RJ45 Jack	1Gb Ethernet (SFP) (or optical SFP module can be fitted)
HDSDI in	BNC 75Ω Jack	HDSDI
HDSDI out	BNC 75Ω Jack	HDSDI
Power in	XLR 4 pin Male pin1 => GND pin4 => +12VDC pins2&3 => unused	
GPIO (Tally capable) LANC RS232/RS422 Aux power	14 way Lemo socket	GPIO out : Open collector GPIO in : Switch with open collector 3V3 and 12V power output. RS232/RS422 detected based upon adaptor cable in use. LANC connections feed to 2.5mm stereo plug or socket.

OTHER	
VIDEO RESOLUTION	1080i 50/59.94, 720p 50/59.94 (SMPTE 274M, 292M, SMPTE 296M)
ENVIRONMENTAL	
Operating Temperature:	0 to 40 degree Celsius
Storage Temperature:	(-40) to 70 degree Celsius
Humidity:	Up to 93% Relative Humidity
POWER SUPPLY	
Adapter input:	100 to 240 AC, 47 to 63Hz
Stagebox input:	12V, 2A (measured at ambient)
COMPLIANCE	IEC 60950-1 Low voltage (LVD) – Directive 2006/95/EC
DIMENSION & WEIGHT	Mm = 230x138x55 Kg = 1.5 approx.
EMC	EMC Directive 2004/108/EC
CE Marking	Radio and telecommunications terminal equipment – Directive 1999/5/EC



Stagebox Managed Synchronous Ethernet Switch with GPS Clock

