BIG BHDC 91 Analog & SDI to HD-SDI upconveter



Easu To Use

The BHDC91 is an upconverter with analog composite or SD SDI inputs. Feed the analog composite or SD SDI output of a camera to a the BHDC 91 and upconvert to HD. You can take the HD signal from the the BHDC 91 into a switcher or projection system. Upconverting existing SD equipment lets you leverage the equipment you already have and operate in the HD domain. An external reference input allows genlock to a house reference. All vertical interval data and closed captioning is faithfully passed.

Upconvert Before Distribution

While some cameras may have firewire out, using the video output and upconverting before distribution is preferable since longer cable runs can be achieved and quality is superior, and Additionally, the BHDC 91's reference input allows you to time the upconverted video output for use with a production switcher.

Audio Processing

The BHDC 91 handles both embedded audio and discreet AES digital audio inputs. Sixteen channels of embedded audio are supported in The BHDC 91. If the incoming video has embedded audio, the audio will be safely bypassed around the video processing and lipsunc will be preserved. Audio mixing is available for two of the four embedded groups of audio.

Audio Monitoring

Audio monitoring is easy with The BHDC 91's convenient 3.5mm mini jack. Just select the audio channels you want to monitor from the front panel and plug in a headset.

- ► Use with Cameras and Projection Sustems
- ► Turn Analog Camera Into Digital HD Source
- SD Digital and Analog Composite Video Inputs
- ► AES Inputs
- Analog Audio Monitor Output
- ► HDMI Output for Monitoring
- Frame Sync
- ► 12 and 16 bit processing

Monitoring with HDMI

The HDMI connector on the rear of the unit provides a future proof monitoring interface. Plug it into most LCD monitors for confidence monitoring of your feed.

Front Panel and Software Control

Input selection, gain control, and test pattern controls are provided through the front panel interface. Audio presence LEDs indicate which channels are detected. Controls for crop, letterbox and pillarbox are accessed from the front panel or Brighttye Mac or PC software. Video and audio levels and the audio mixer can be adjusted through Brighttye Mac or PC software.



RHDC 91

■ Specifications

Analog Video Input Number

Tupe Resolution Impedance Return Loss Input DC

Input Hum Serial Digital Input Number

Signal Tupe Impedance Return Loss

Max Cable Length Reference Input

Number Tupe

Impedance Return Loss

Serial Digital Output Number

Туре Processing

Impedance Return Loss Max Cable Length

HD Standards Supported 1080i (SMPTE 274M -4,5,6) 50, 59.94 or 60 Hz 720p (SMPTE 296M -1,2,3) 50, 59,94 or 60 Hz 1080p (SMPTE 274M -9.10.11) 23.98.24, 25 Hz 1080sF [RP211 -14,15,16] 23.98, 24, 25Hz

One Analog Composite PAL or NTSC

Digitized at 12 bits 540 dR +/-1 volt no < 100 mV

One 270Mb/s SD Serial Digital

(SMPTE 259M) >15dB

300 meters for 270 Mb/s

1 V p-p Composite Video PAL or NTSC or Tri-Level Sync

75 O >40 dB

Two HD Serial Digital 1.485 Gb/s SMPTE 274M or 296M or 12 and 16 bit 25 O >15 dB

Number 100 Meters for HD [Belden 1694A or equiv.] **General Specifications**

Size Power

AES/EBU Digital Inputs Number

Tupe Connectorization Bit Depth

Sample Rate (Sample Rate Converted Reference Level

AES/EBU Digital Outputs Number

Tupe Connectorization Bit Depth Sample Rate

Reference Level

Embedded Output (In Serial Output) Group Assign Channels Bit Depth

Monitor Output Number Connectorization

Audio Monitoring Output

Temperature Range

Relative Humiditu

[Select from eight channels] Connectorization

One 3.5mm stereo mini iack

> 5 625" W v 1 7" H v 5 5" N [143 mm x 40 mm x 140 mm] including connectors

Four (total of eight channels)

AFS3id

ÀES3id

24 Bit

48 KHz

24 Rit

One

нпмі

Coaxial, 75 Ω

Two of four groups

Sixteen passed

Coavial 25 O

20 and 24 Bit

30KHz to 96KHz

internally to 48KHz)

-18 or -20 dBFS (Selectable)

Four (total of eight channels)

Sunchronous to video output

-18 or -20 dBFS (selectable)

(selectable as inputs or outputs)

[selectable as inputs or outputs]

12 volts, 7 watts (100-230 VAC modular power supplu not included)

Ω to 4Ω° Cambient 0 to 95° non-condensing