

Broad Scan SDI

Ref. BSD830

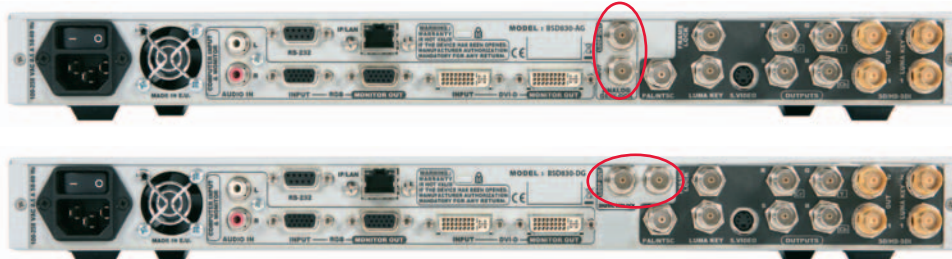
Very High Resolution Video and SDTV Scan Converter with Genlock and Embedded Audio w/Delay



Analog Genlock
In/Out



Digital Genlock
In/Out



Inputs



Outputs



Features



BSD830 at a glance

- > Powerful Broadcast Scan Converter with Genlock
- > Up to 1920x1200 input resolution
- > High Performance image processing with real time conversion
- > A «Zoom finder» is provided to preview part of an image zoomed
- > 8 Preset Memories for zoom settings

References

- > **BSD830-AG**: Broad Scan SDI with Analog Genlock
- > **BSD830-DG**: Broad Scan SDI with Digital Genlock

Option

- > **OPT-LAN**: TCP/IP Control Interface

Inputs

- Workstations, PC, Mac compatible input
- DVI and RGB Computer Input up to 1920x1200
- Genlock: SDI or Analog Black Burst
- All Genlock timings meet broadcast ITU/SMPTE standards
- All video outputs are available simultaneously

Outputs

- Digital outputs: SDI 10 bits
- Analog outputs: YUV, NTSC/PAL, RGB, S-Video
- Embedded Stereo Audio w/Delay

Features

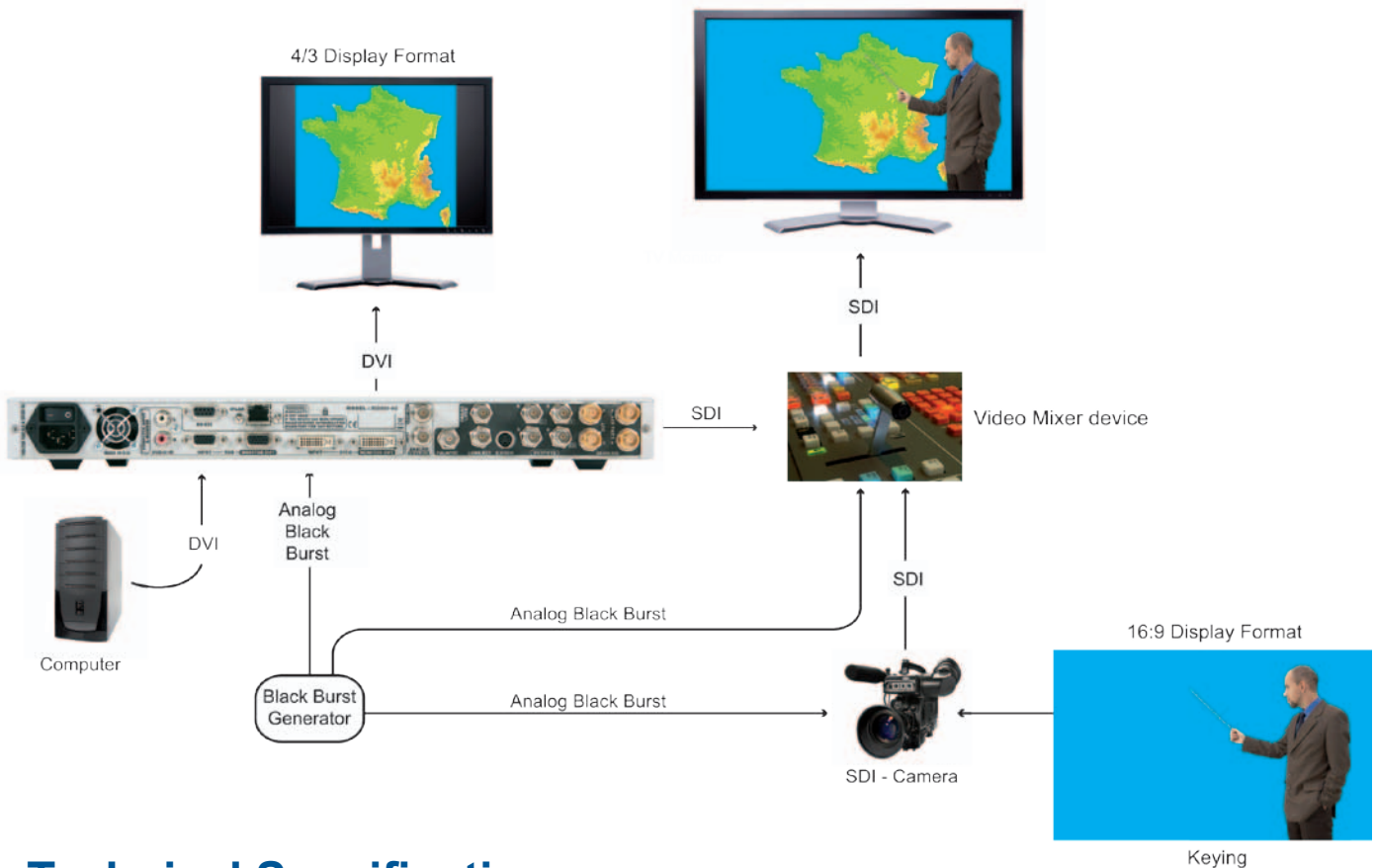
- Multi-level anti-flicker
- Horizontal & Vertical filters
- 16/9, 4/3, special sized and cropped output
- Pan & zoom resizing up to 1000%
- Zoom Finder
- Frame & logo memory
- Direct access functions: Freeze, Frame, Under/Over Scan, Aspect Ratio, Zoom position and size
- RS232 Upgradable
- Remote Control Software (PC Only)
- Ethernet interface: Optional
- For High Definition and Standard Television Broadcast
- 8 Preset memories for zoom settings



ANALOG WAY®

Example of application with **BSD830**:

Select and convert a 4:3 map window into a 16:9 SDI output for a content ready to broadcast.



Technical Specifications

Computer Input

- For PC, Mac and Workstation
- DVI-D and RGB, RGBS, RGBHV with Automatic synchronization detection
- Resolution up to 1600x1200/60Hz & 1920 x1 200RB/60Hz
- Horizontal frequency from 31.5 to 130 KHz
- Vertical frequency up to 130 Hz
- Audio Stereo: Unbalanced 44kOhms - +18dB - Adjustable level

Outputs

- SDI (x2): 4:2:2 - 10 bits - 270 Mbs 75 Ohms (fs=48KHz@20/24 bit):
- YCrCb; RGB, RGBS: 0.7Vp/p + Sync. 0.3V - 75 Ohms
- S.Video: Y/C - 0.7Vp/p + Sync. 0.3V - 75 ohms
- NTSC/PAL: Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- Luma Key (x2): SDI - Same format as output 75 Ohms
- Luma Key: Analog SD 0.7Vp/p - Same format as output 75 Ohms
- Frame Lock: TTL Level - Output frame rate

DIGITAL GENLOCK (Model BHD830-DG)

- Input: HD/SD-SDI Black
- Output: Active loop through

ANALOG GENLOCK (Model BHD830-AG)

- Input: 3 level Black or Black Burst PAL/NTSC
- Output: Active loop through

User Controls and Connectors

FRONT PANEL:

- Standby On/Off
- Frame recall
- Freeze
- Under/Over scan
- Aspect ratio: 1/1 - Cropped - Full Screen
- Zoom up to 1000%, linear pan & scan & Finder
- Position and size
- LCD screen and control buttons for:
 - Input type and status
 - 8 level anti-flicker
 - RGB & Black level adjustment, sharpness
 - Output format selection
 - Genlock phase adjustment (H&fsc)

REAR PANEL

- Input Connectors:
 - DVI-D Female: (Digital computer in only)
 - HD15 Female (Analog computer in)
 - BNC (Genlock in)
 - RCA Audio Stereo
- Output Connectors:
 - DVI-D Female: Active loop through
 - HD15 Female: Active loop through
 - BNC (x2): SD-SDI
 - BNC (x4): SD-YUV & RGB/RGBS
 - 4 pin Mini DIN: S. Video
 - BNC: NTSC/PAL
 - BNC: Genlock Active loop through
- BNC: Analog Luma key out
- BNC (x2): Digital Luma key out
- BNC: Frame lock out
- Miscellaneous:
 - DB9: RS232 for remote control
 - RJ45: Optional Ethernet connection
 - AC Main connector with On/Off switch

Power Supply

- Internal, universal, automatic, 100-250V; 50/60 Hz; 40 W(UL, CSA, GS, CE)

Supplied with

- 1 x Power supply cord
- 1 x Remote Control Software (RCS) (PC Only)*
- 1 x User Manual*

Dimensions:

- 1U, 19" compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight:

- 3.3 kg/7.3 lbs

Warranty:

- 3-year warranty on parts and labor back to factory

Specifications subject to change without prior notice



* All RCS, User Manuals and Quick Start Guides are available on www.analogway.com