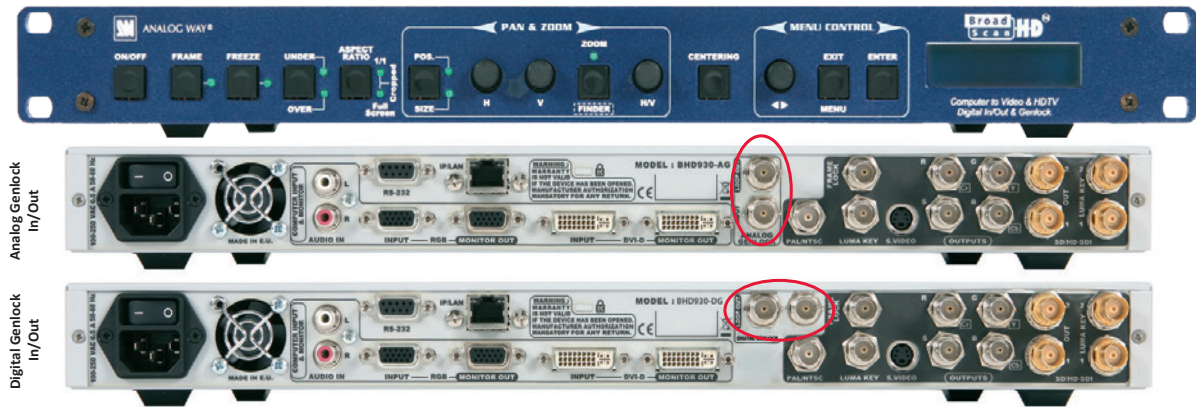


Broad Scan HD - Ref. BHD930

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



INPUTS



OUTPUTS



FEATURES



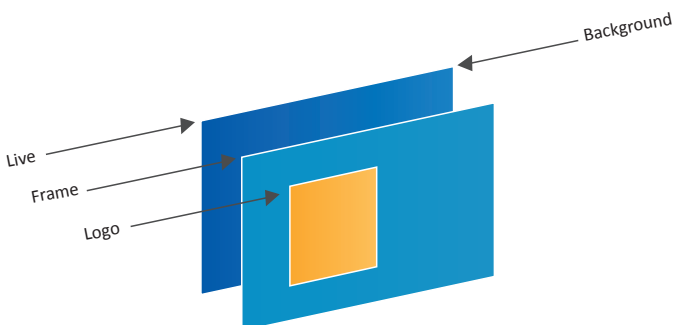
Broad Scan HD at a glance

- ▶ Powerful Broadcast Scan Converter with Genlock
- ▶ Supports many analog and digital output formats: HDTV, SDTV
- ▶ High Performance image processing with real time conversion
- ▶ A "Zoom finder" is provided to preview part of a zoomed image
- ▶ 8 Preset memories for zoom settings

To control Broad Scan HD

- ▶ Remote Control Software (RCS) (PC only)*

*Available on www.analogway.com



The Broad Scan HD can display a logo or a full frame on the Live Background.

Key features

▶ Inputs

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

▶ 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,

▶ Outputs

- Digital outputs: HD/SD-SDI 10 bits
- Analog outputs: HD/SD-YUV, NTSC/PAL, RGB, S-Video
- SD/HD-SDI 4:2:2 & SD/HDTV Analog outputs
- Embedded Stereo Audio w/Delay

- 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

Operating modes

- Logo on Live Background in downward conversion
- 1 Animated Logo on Live Background in downward conversion
- 1 Full Frame on Live Background in downward conversion



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Option

- ▶ OPT-LAN: TCP/IP Control Interface

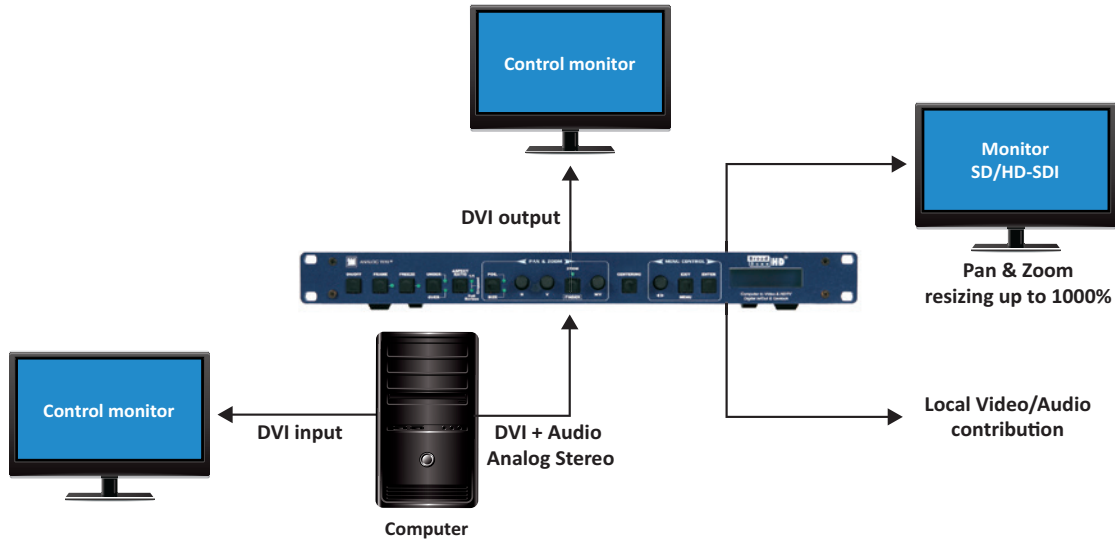
Reference

- ▶ BHD930-AG: Broad Scan HD with Analog Genlock
- ▶ BHD930-DG: Broad Scan HD with Digital Genlock

▶ Diagram:

Example of application with Broad Scan HD:

Select and scale a website window to broadcast any region of interest.



Technical Specifications

▶ Computer input

- For PC, Mac and Workstation
- DVI-D and RGsB, RGBS, RGBHV with Automatic synchronization detection
- Resolution up to 1600x1200/60Hz 1920x1200RB/60Hz
- Horizontal frequency from 31.5 to 130 KHz
- Vertical frequency up to 130 Hz
- Audio Stereo: Unbalanced 44kOhms - +18dB - Adjustable level

▶ Outputs

- HD-SDI (x2): 4:2:2 - 10 bits - 1.5 Gbs - 75 Ohms or SDI (x2): 4:2:2 - 10 bits - 270 Mbs - 75 Ohms (fs=48KHz@20/24 bit)
- HD-YUV: HD-YCrCb - 0.7Vp/p + 3 level Sync. +/- 0.3V - 75 Ohms or YCrCb; RGsB, 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/HDSDI - Same format as output - 75 Ohms
- Luma Key: Analog SD/HD 0.7Vp/p - Same format as output - 75 Ohms

- Frame Lock: TTL Level - Output frame rate

▶ Digital Genlock (Model BHD930-DG)

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

▶ Analog Genlock (Model BHD930-AG)

- Input: 3 level HD 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

▶ Connectors - 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): HD/SD-SDI
- BNC (x4): HD/SD-YUV & RGsB/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

Dimensions:

- ▶ 1U, 19"
- ▶ 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

Power Supply:

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

Supplied with:

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

Warranty:

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



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

i Specifications subject to change without prior notice

All technical specifications are available on our website