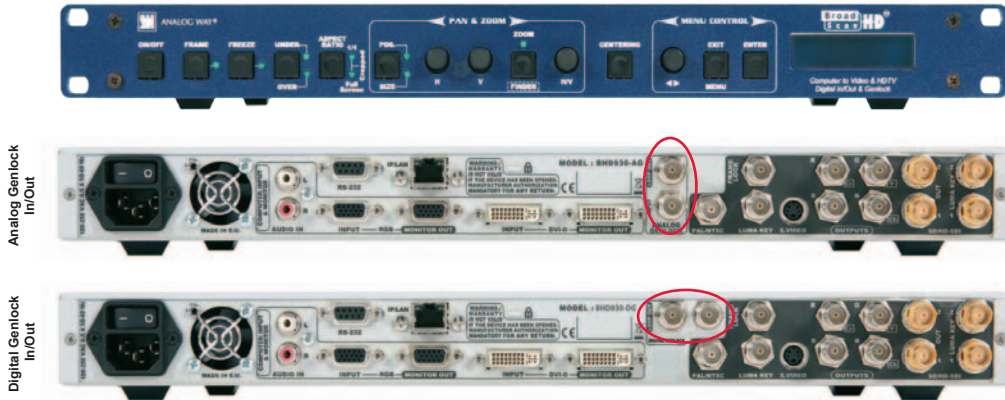


# Broad Scan HD

Ref. BHD930

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



Analog Genlock In/Out

Digital Genlock In/Out

## Inputs



## Outputs



## Features



## BHD930 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

### 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

### 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

### 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

### References

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

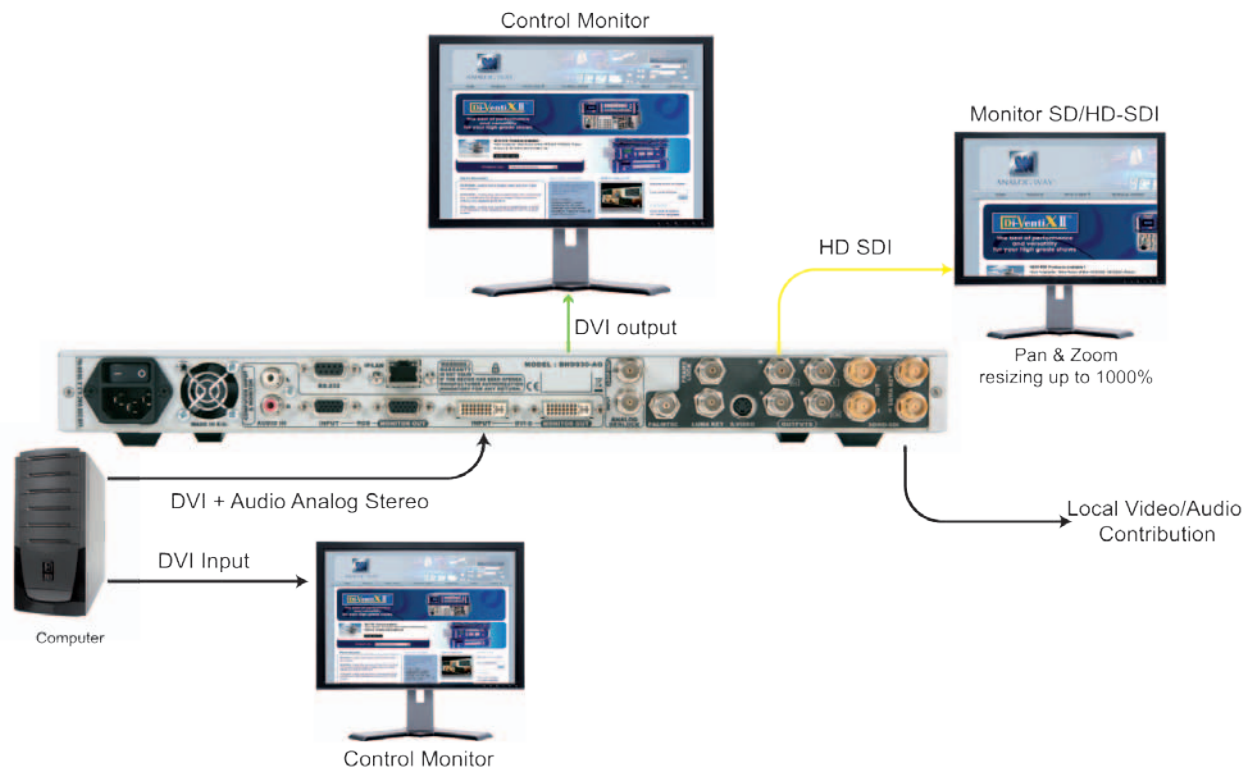
### Option

- > OPT-LAN: TCP/IP Control Interface



ANALOG WAY®

Example of application with **BHD930**:  
 Select and scale a website window to broadcast any region of interest.



## Technical Specifications

Computer Input	User Controls and Connectors	Power Supply
<ul style="list-style-type: none"> <li>For PC, Mac and Workstation</li> <li>DVI-D and RGsB, RGBS, RGBHV with Automatic synchroization detection</li> <li>Resolution up to 1600x1200/60Hz 1920x1200RB/60Hz</li> <li>Horizontal frequency from 31.5 to 130 KHz</li> <li>Vertical frequency up to 130 Hz</li> <li>Audio Stereo: Unbalanced 44kOhms - +18dB - Adjustable level</li> </ul>	<p><b>FRONT PANEL:</b></p> <ul style="list-style-type: none"> <li>Standby On/Off</li> <li>Frame recall</li> <li>Freeze</li> <li>Under/Over scan</li> <li>Aspect ratio: 1/1 – Cropped - Full Screen</li> <li>Zoom up to 1000%, linear pan &amp; scan &amp; Finder</li> <li>Position and size</li> <li>LCD screen and control buttons for:               <ul style="list-style-type: none"> <li>Input type and status</li> <li>8 level anti-flicker</li> <li>RGB &amp; Black level adjustment, sharpness</li> <li>Output format selection</li> <li>Genlock phase adjustment</li> </ul> </li> </ul> <p><b>REAR PANEL</b></p> <p><b>Input Connectors:</b></p> <ul style="list-style-type: none"> <li>DVI-D Female: (Digital computer in only)</li> <li>HD15 Female (Analog computer in)</li> <li>BNC (Genlock in)</li> <li>RCA Audio Stereo</li> </ul> <p><b>Output Connectors:</b></p> <ul style="list-style-type: none"> <li>DVI-D Female: Active loop through</li> <li>HD15 Female: Active loop through</li> <li>BNC (x2): HD/SD-SDI</li> <li>BNC (x4): HD/SD-YUV &amp; RGsB/RGBS</li> <li>4 pin Mini DIN: S. Video</li> <li>BNC: NTSC/PAL</li> <li>BNC: Genlock Active loop through</li> </ul> <p><b>Miscellaneous:</b></p> <ul style="list-style-type: none"> <li>DB9: RS232 for remote control</li> <li>RJ45: Optional Ethernet connection</li> <li>AC Main connector with On/Off switch</li> </ul>	<ul style="list-style-type: none"> <li>Internal, universal, automatic, 100-250 V; 50/60 Hz; 40 W (UL, CSA, GS, CE)</li> </ul> <p><b>Supplied with</b></p> <ul style="list-style-type: none"> <li>1 x Power supply cord</li> <li>1 x Remote Control Software (RCS) (PC Only)*</li> <li>1 x User Manual*</li> </ul> <p><b>Dimensions</b></p> <ul style="list-style-type: none"> <li>1U, 19" compatible</li> <li>D 10.4" x W 19" x H 1.74"</li> <li>D 265 mm x W 482 mm x H 44 mm</li> </ul> <p><b>Weight:</b></p> <ul style="list-style-type: none"> <li>3.3 kg/7.3 lbs</li> </ul> <p><b>Warranty:</b></p> <ul style="list-style-type: none"> <li>3-year warranty on parts and labor back to factory</li> </ul>
<p><b>Outputs</b></p> <ul style="list-style-type: none"> <li>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)</li> <li>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</li> <li>S.Video: Y/C - 0.7Vp/p + Sync. 0.3V - 75 ohms</li> <li>NTSC/PAL: Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms</li> <li>Luma Key (x2): SDI/HDSDI – Same format as output - 75 Ohms</li> <li>Luma Key: Analog SD/HD 0.7Vp/p - Same format as output - 75 Ohms</li> <li>Frame Lock: TTL Level – Output frame rate</li> </ul> <p><b>DIGITAL GENLOCK (Model BHD930-DG)</b></p> <ul style="list-style-type: none"> <li>Input: HD/SD-SDI Black</li> <li>Output: Active loop through</li> </ul> <p><b>ANALOG GENLOCK (Model BHD930-AG)</b></p> <ul style="list-style-type: none"> <li>Input: 3 level HD Black or Black Burst PAL/NTSC</li> <li>Output: Active loop through</li> </ul>	<p><b>Local Video/Audio Contribution</b></p>	<p><b>Specifications subject to change without prior notice</b></p>



\* All RCS, User Manuals and Quick Start Guides are available on [www.analogway.com](http://www.analogway.com)