**Broad Scan HD - Ref. BHD930**

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

**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
- **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, Zoom
- **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

**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.
**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 RGB, RGBS, RGBHV with Automatic synchronization detection
- Resolution up to 1600x1200/60Hz, 1920x1200/60Hz
- 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; 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

#### 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.

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

Specifications subject to change without prior notice

All technical specifications are available on our website