

# BD30AV SD Series

## Digital Video & Audio Solid State Delay Line

BD30AV is the highest broadcasting quality solid state video audio delay line without data compression which is separated into HD & SD series.

BD30AV SD series could be easily used in the On-Air TV broadcasting environments for protection on live television or radio programs with the delay time could be set up to 360 seconds by the increments of 1-frame step for the standard digital video signals. The additional frame by frame adjustable feature also can be used in most of the Virtual Sets and the independent audio offset can be eliminated the lip Sync problem.

Built-in high performance 10Bits digital time base corrector and frame synchronizer, BD30AV SD series delay line allows to feed the unit with any embedded, de-embedded, digital or analog video audio signals providing always perfect levels and GenLock to its outputs.

Performing full 10-bit signal process and 32-bit processing amplifier, BD30AV offers exceptional DTV-Grade picture quality with excellent AGC and CGC functionalities and top quality color correction.



Live talk shows, awards specials, telephone call-ins, courtroom TV, breaking news, home shopping - part of the excitement of live TV is that you never know what's going to happen next. But that can be a big problem if "what happens next" is an obscenity, a libelous statement, or a courtroom utterance that should not be aired. B&M gave more than a few hundred TV or radio stations the perfect digital delays as the safeguard to handle such eventualities.

## Features

- ✓ Up to 360 seconds' delay as the additional options. 30 seconds' delay are available in each standard model
- ✓ Compatible with SD-SDI digital embedded, de-embedded signal, analog composite video, digital AES/EBU, stereo audio over XLRs signals input and output simultaneously to any existing equipments
- ✓ NTSC and PAL video format compatible
- ✓ Built-in 10-Bit high performance digital TBC and frame Sync. for an always perfect and clean video output
- ✓ Excellent video AGC and CGC function
- ✓ Frame by frame video delay time adjustment
- ✓ Independently audio offsets adjustment
- ✓ Audio Mute button to remove unwanted audio parts from the live programs
- ✓ Analog signals output for preview before or after delay
- ✓ Two Bypass modes for Bypass button and power off Bypass mode
- ✓ Gen lockable
- ✓ Provides RS-232 port. The stand alone 1U rack mountable external control unit as the option



# Specifications



Television Standard NTSC or PAL

## Inputs

Analog Composite 1.0Vp-p, 75Ω, BNC  
 Serial Digital Component SMPTE 259M-C 270Mbps, 75Ω, BNC  
 GenLock input B.B 0.429 (0.45) Vp-p, 75Ω  
 or loop through, BNC Outputs

## Outputs

Analog Composite 1.0Vp-p, 75Ω, BNC  
 Serial Digital Component SMPTE 259M-C 270Mbps, 75Ω, BNC

## Video Signals

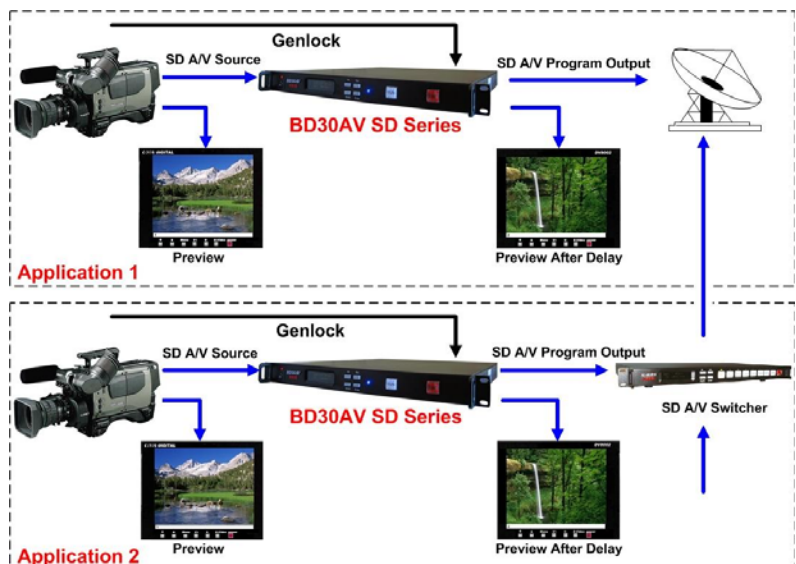
Sample Precision 10Bit  
 Sample Frequency 27MHz CCIR656  
 Bandwidth 6MHz  
 Differential Phase < 1°  
 Differential Gain < 1%  
 K-Factor (2T Pulse) < 5ns  
 Signal to Noise Ratio > 70dB p-p/rms  
 (Weighted)  
 SDI Amplitude 800mv ± 25mv  
 SDI Jitter (1kHz) < 0.2 UI  
 SDI Jitter (10Hz) < 0.2 UI

## Audio Signals

Sample Precision 24Bits  
 Sample Frequency 48kHz  
 Frequency Response 20Hz ~ 20kHz  
 Signal to Noise Ratio > 90dB  
 THD + N 0.03% (+4dBμ)  
 Channel Isolation 70dB

## Electrical & Mechanical

Temperature/Humidity 10 ~ 40°C/30 - 90% (No condensation)  
 Power 100 ~ 240 VAC ± 10%, 50/60 Hz, < 80W  
 Dimensions 480 (W) x 44.5 (H) x 526 (D) mm  
 Weight Approx. 10kg



All features, specifications, pricing are subject to change without notice. All rights reserved.



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