

BD30AV HD Series

Digital High Definition Video Audio 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 HD series is compatible with all formats of video and audio signals including high definition HD-SDI and standard definition SD-SDI signals input and output. It could be easily used in the high definition live show programming and On-Air TV broadcasting environments from the unwanted parts.

The maximum delay time of BD30AV HD series is up to 60 seconds for the HD-SDI video format, in the mean time 300 seconds delay time as the maximum for the SD-SDI video format.



Features

- ✓ Up to 60 seconds' delay for the HD-SDI signal as the additional options. 30 seconds' delay are available in each standard model
- ✓ Compatible with SMPTE 292M (1.485Gbps) – 1080i/60/59.94/50, 1080p/24/23.98(sF), 720p/60/59.94/50
- ✓ Compatible with SMPTE 372M (1.285Gbps) – 1080p/60/59.94/50
- ✓ Compatible with SMPTE 259M-c (270Mbps) – 525i/59.94, 625i/50
- ✓ Adjust the input video format automatically
- ✓ Up to 4 channel digital AES/EBU audio embedded signals supported as the options
- ✓ Digital high definition TBC, frame synchronizer and GenLock function built-in as the options
- ✓ De-embedded signal outputs for preview and program as the options
- ✓ Provides 1 channel HD/SD-SDI digital embedded signal input, 2 channels HD/SD-SDI embedded signal output for preview before delay, 2 channels HD/SD-SDI embedded signal for program output 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



| Serial Digital Video Inputs | |
|-----------------------------|--|
| Video Standard | SMPTE 292M 1.485Gbps, 1080i/60/59.94/50, 1080p/24/23.98(sF), 720p/60/59.94/50 SMPTE 372M 1.285Gbps, 1080p/60/59.94/50 SMPTE 259M-c 270Mbps digital component, 525i/60, 625i/50 |
| Number of Inputs | 1ea, BNC |
| Equalization | Automatic 100m @ 1.485Gb/s with Belden 1694, 25m when Bypass mode ON |
| Impedance | 75Ω |

| Serial Digital Video Outputs | |
|------------------------------|---|
| Video Standard | Same as inputs |
| Number of Outputs | BNC x 2 for Program outputs, BNC x 2 for Preview outputs before delay |
| Signal Level | 800mV ±10% |
| DC Offset | 0V ± 0.5V |
| Rise/Fall Time | < 270ps @ 1.485Gb/s; < 800ps @ 270Mb/s |
| Overshoot | < 10% of amplitude |
| Alignment Jitter | < 0.2UI at both 1.485Gb/s and 270Mb/s |
| Timing Jitter | < 0.4UI @ 1.485Gb/s; < 0.2UI @ 270Mb/s |
| Impedance | 75Ω |

| Genlock & Serial Control (Optional) | |
|-------------------------------------|---|
| Type | HD Tri-Level Sync. or NTSC/PAL Bi-Level Sync. (300mV) or color black (1Vpp) |
| Number of Connectors | BNC x2 (Input x1, passive loop-through x1) |
| Impedance | 75Ω |
| Serial Control | RS-232 port. All front panel functions controllable by computer |

| Electrical & Mechanical | |
|-------------------------|--------------------------------------|
| Power | 100 ~ 240 VAC ± 10%, 50/60 Hz, < 80W |
| Dimensions | 480 (W) x 44.5 (H) x 526 (D) mm |

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



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