

TL30AV Series HD/SD Digital Audio Video Solid State Delay Line



THE LONGEST DELAY TIME IN THE WORLD:

TL30AV is the highest broadcasting quality solid state video audio delay line without data compression which is separated into HD & SD series. The delay time could be set up to 120 seconds for HD-SDI signal and up to 720 seconds for SD-SDI signals by the increments of 1-frame step.

TL30AV series could be easily used in the On-Air TV broadcasting. The frame by frame adjustable feature can be used in most of the Virtual Sets. The independent audio offset can be eliminated the lip Sync problem.

Built-in full 10Bits time base corrector and frame synchronizer which is compatible with both NTSC or PAL video standard, TL30AV series audio video delay line allows to feed the unit with any embedded, de-embedded, digital or analog signals providing always perfect levels and GenLock to its outputs.

Performing full 10-bit signal process and 32-bit internal DSP processing, TL30AV 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.



TL30AV-EB-III Back Panel



Features:

- Compatible with the digital HD-SDI/SD-SDI Embedded signal I/O
- Compatible with the digital HD/SD SDI video, analog composite or component video and digital AES/EBU, analog balance
 - XLR audio signals input and output
- The maximum delay time up to 360 seconds for SD digital & analog signals
- The maximum delay time up to 60 seconds for HD-SDI digital embedded signals
- Frame by frame adjustable. (30 seconds delay time for each standard model.)
- Built-in 10-Bit high performance digital TBC and frame Sync. for an always perfect and clean video output
- Gen lockable
- Excellent video AGC and CGC function
- Audio offsets independence to match the video delay during the signals' transmission, resolve the LIP SYNC problem
- Audio Mute button to remove unwanted audio parts from the live programs
- Analog signals output for preview before or after delay
- Two Bypass modes enable for Bypass button and power off Bypass mode
- Provides RS-232 as the external remote control port. I-U rack mountable external control unit as the option



Video Specification (Tested By Tektronix VM700 & WFM7120 HD/SD Digital Video Measurement Sets)

» Sample Precision	» 10 Bits HD-SDI/SD-SDI signal & Composite
» Sample Frequency	» 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
» Bandwidth	» 6MHz
» Differential Phase	» < 1 degree
» Differential Gain	» < 1%
» K Factor (2T Pulse)	» < 1%
» Chroma Delay	» < 5 ns
» Signal to Noise Ratio	» > 70 dB (Weighted)
» Serial Digital SDI	» 75 Ohm (BNC), Auto EQ to 300M (With Reclocked & Buffered BNC Output)
» SDI Amplitude	» 800 mv ± 25 mv
» SDI Jitter (1 kHz)	» < 0.2 UI
» SDI Jitter (10 Hz)	» < 0.2 UI
» I/O Connector	» BNC



Audio Specification

» Sample Precision	» 24Bits
» Sample Frequency	» 48kHz
» Frequency Response	» 20Hz - 20kHz
» Signal to Noise Ratio	» > 90 dB
» THD+N	» 0.03% (+4dBu)
» Channel Isolation	» 70db
» Max Input	» +20dBu



Mechanical specification

» Chassis Dimension	» 44,5mm × 450mm x 480mm
» Gross Weight	» 7 Kg



Electrical specification

» Power	» 110V ~ 240V
» Power Consumption	» TL30AV HD Series <100W » TL30AV SD series < 60W

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