

7150

Audio Synchronisation Delay



FEATURES

- Compact 1U stereo audio delay unit.
- Assignable delay from 0 -10.4 seconds.
- Delay increments in samples, fields, frames or milliseconds.
- Accepts both analogue and AES input sources.
- Simultaneous analogue and AES outputs as standard.
- Dolby® E and Dolby® Digital compliant.
- GPI inputs for remote preset recall.
- Extremely reliable for 24/7 operation.
- Master signal bypass relays fitted as standard.
- Designed to exceed current EMC directives.
- Fully RoHS compliant.
- 3 year warranty.

INTRODUCTION

Popular with many of the world's broadcasters, the Bel 7150 is a versatile and cost effective digital audio delay featuring both analogue and AES inputs and outputs as standard.

The Bel 7150 can delay stereo audio by up to 10.4 seconds [260 PAL frames, 312 NTSC frames].

Eight user-defined settings may be stored in memory and recalled locally or remotely via GPIs. The delay time may be changed in increments of samples, milliseconds, fields or frames. Field and frame values may be changed to reflect PAL or NTSC operation.

A control lock is provided to prevent inadvertent operation of the front panel and the unit is fully bypassed in the event of power failure.

The Bel 7150 provides both analogue and AES outputs. This allows the Bel 7150 to alternatively be used as an analogue - digital or digital - analogue converter.

The AES output can be synchronised to an external AES reference input.

A bit-accurate mode is provided that will allow AC3 and Dolby® E bitstreams to be delayed.

The Bel 7150 is particularly suited to video/audio resynchronisation, audio web streaming and digital broadcast synchronisation where a very fine delay adjustment is essential.



7150 Technical Specifications

Delay	
Audio delay	Maximum 10.4 seconds
Delay increments	Sample, field, frame and milliseconds
Video system	PAL or NTSC
Audio	
Frequency response	20Hz - 20KHz ± 1 dB
Dynamic Range	120dB
Signal to noise ratio	-100dB 20Hz - 20kHz
Distortion	Less than 0.015% at 1kHz
Analogue	
Analogue inputs	2 x XLR3-F
Analogue input impedance	Electronically balanced 25k Ω
Analogue outputs	2 x XLR3-M
Analogue output impedance	Electronically balanced 50 Ω
Conversion accuracy	A/D 24 bit Sigma Delta 128 x oversampled D/A 24 bit Sigma Delta 128 x oversampled
Digital (AES)	
Digital inputs	1 pair stereo AES/EBU digital (XLR-3F)
Digital input impedance	110 Ω
Digital outputs	1 pair stereo AES/EBU digital (XLR-3M) - 48kHz
Digital output impedance	110 Ω
AES sample rate	32 to 50kHz, nominally 48kHz
Reference Sampling rate	48kHz AES XLR3-F
Word length - max	24 bit
External Control	
GPI	4, to select preset memories 1 - 4 D type connector
General	
Power requirements	90-260 VAC 50/60 Hz
Power consumption	30W
Dimensions	483w x 44h x 200d (1U)
Net weight	4kg (8.8lbs)



Product specifications subject to change without prior notice. See website for warranty details.