



DCT-18NN

Analog Stereo Lip Sync Corrector



Operation Manual

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
 - To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
 - Never spill liquid of any kind on or into this product.
 - Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
 - Do not attach the power supply cabling to building surfaces.
 - Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
 - Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
 - To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.
 - Please completely disconnect the power when the unit is not in use to avoid wasting electricity.
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VERSION HISTORY

REV.	DATE	SUMMARY OF CHANGE
Ver 1.00	2026/3/13	Initial Release





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1. INTRODUCTION

The Analog Stereo Lip Sync Corrector is a compact audio delay processor designed to compensate for audio-video synchronization errors in AV distribution systems. When video signals are transmitted over long distances or pass through multiple processing devices—such as distribution amplifiers, converters, or set-top boxes—latency may be introduced in the video path, resulting in audio leading the video.

This device provides an adjustable analog stereo audio delay ranging from 0 to 300 ms, allowing precise manual synchronization between audio and video signals. By compensating for system-induced latency, the unit ensures accurate lip synchronization and eliminates noticeable AV timing mismatches.

2. APPLICATIONS

- Home Theater
- Cable TV
- Set-top Box
- Multi-zone AV Receivers
- Audio Matrix

3. PACKAGE CONTENTS

- 1× Analog Stereo Lip Sync Corrector
- 1× 5V/1.2A DC Power Adapter
- 1× Operation Manual

4. SYSTEM REQUIREMENTS

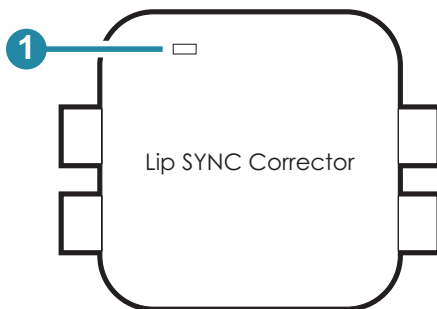
- Analog audio source equipment such as media player, or PC/laptop.
- Analog audio receiving equipment such as an audio amplifier or powered speakers.

5. FEATURES

- Supports direct analog-to-analog signal bypass without processing
- Provides 8 selectable delay steps for precise audio timing control
- Efficient low-power operation

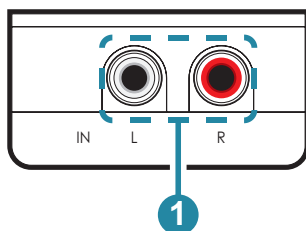
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Top Panel



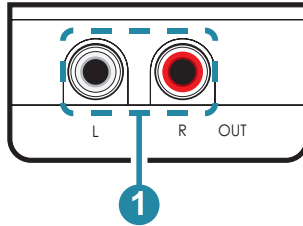
- 1 POWER LED:** This LED will illuminate to indicate the unit is on and receiving power.

6.2 Left Panel



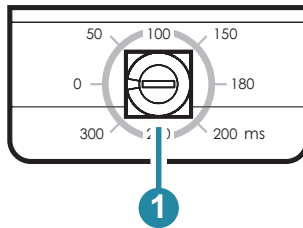
- 1 L/R IN:** Connect to the analog stereo audio output of a device such as an audio player or PC.

6.3 Right Panel



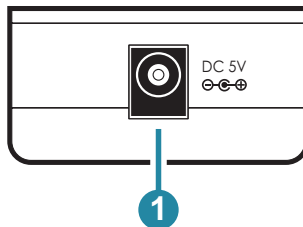
- 1 **L/R OUT:** Connect to powered speakers or an amplifier for analog stereo audio output (LPCM 2.0 only).

6.4 Front Panel



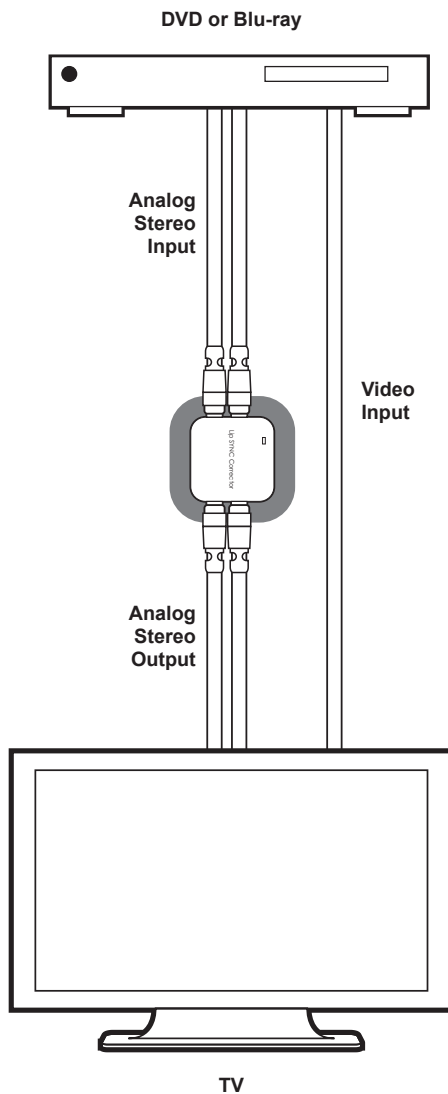
- 1 **Audio Delay Dial:** This dial sets the audio delay for the analog stereo audio output. Available range is from 0 to 300ms.

6.5 Rear Panel



- 1 **DC 5V:** Plug the 5V DC power adapter into the unit and connect it to an AC wall outlet for power.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

8.1 Technical Specifications

Input Port	1×Stereo (RCA)
Output Port	1×Stereo (RCA)
Power Supply	5V/1.2A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection (HBM)	±12kV (Air Discharge) ±8kV (Contact Discharge)
Dimensions (W×H×D)	46mm×45.5mm×23.55mm [Case Only] 55.57mm×47mm×23.55mm [All Inclusive]
Weight	32g
Chassis Material	Plastic
Chassis Color	White
Operating Temperature	0°C – 40°C/32°F – 105°F
Storage Temperature	-20°C – 60°C/-4°F – 140°F
Relative Humidity	20 – 90% RH (Non-condensing)
Power Consumption	0.3W

8.2 Audio Specifications

8.2.1 Analog Audio

Analog Input	
Max Audio Level	2Vrms
Impedance	13K6Ω
Type	Unbalanced

Analog Output	
Max Audio Level	2Vrms
THD+N	< 0.01%@20Hz – 20kHz
SNR	> 80dB@0dBFS
Frequency Response	< ±1dB@20Hz – 20kHz
Crosstalk	< -80dB@10kHz
Impedance	499Ω
Type	Unbalanced

9. ACRONYMS

ACRONYM	COMPLETE TERM
dB	Decibel
kHz	Kilohertz
LED	Light-Emitting Diode
SNR	Signal-to-Noise Ratio
THD+N	Total Harmonic Distortion plus Noise
RCA	Audio Connector (Radio Corporation of America)
Ω	Ohm



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