

# LEVEL ONE

## User Manual



**NEWHANK**

# Introduction

## Professional Stereo Audio Limiter

The Newhank Level One is a small size, easy to use, low cost stereo limiter. The input control for left and right can be adjusted separately and the limiting levels is adjusted for left and right together.

Level One is the solution for bars , restaurants and small clubs that have to deal with (low) level restrictions and don't want to loose the audio quality, or rental companies that want to protect their equipment

Where most limiters compress or change the sound, Level One is keeping the sound alive, even at low levels and/or operating full in limit.

After adjustments are set  
Level One can be sealed or pad locked.

# Environment

Do not place the unit in environments which contain high levels of dust, heat, moisture or vibration.

Do not use the unit near water or other liquids. Make sure no water or other liquids can be spilled, dripped or splashed on the unit.

The unit is developed for indoor use only. Do not use it outdoors.

Do not place objects (books, vases, ...) on top of the unit.

Place the unit on a stable base or mount it in a stable rack.

# Safety requirements

Always handle the unit with care.

Only use a grounded socket outlet and a power cord with grounding plug to plug in the unit.

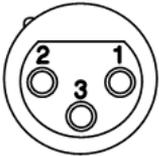
## Pin connections and connectors

The in and output connections of Newhank audio equipment are performed corresponding to international wiring standards for professional audio equipment.

### **XLR:**

- 1=Ground/Shield
- 2=Signal+
- 3=Signal-

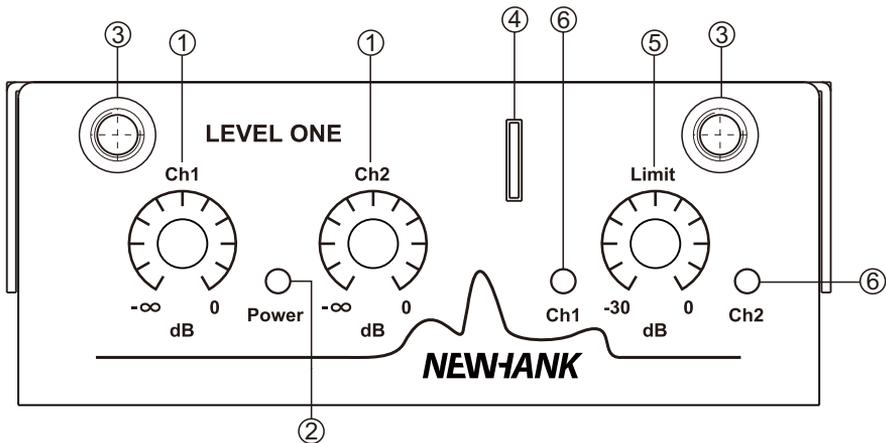
### **XLR Female:**



### **XLR Male:**



## Front panel

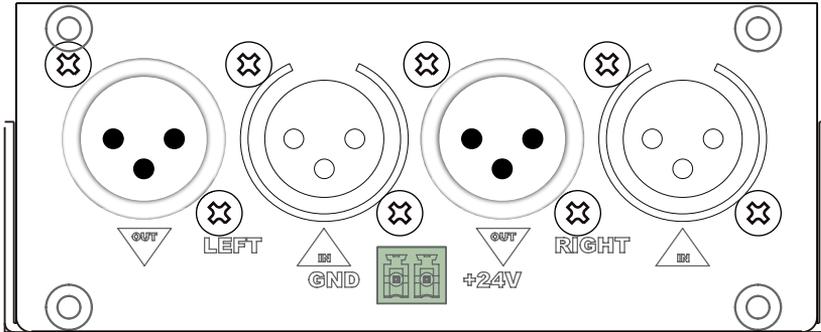


The front panel of the Level One contains all the controls and indicators and mechanical parts to lock the housing

- 1) CH1 and CH2 input level controls\*
- 2) Green power on indication led
- 3) M6 screw with 2MM hole
- 4) Hole for optional Padlock 4 MM
- 5) CH1 and CH2 combined Limit level adjustment\*
- 6) CH1 and CH2 red indicators are on or flash when limiter is active

\* Adjustments can only be made when the housing is open.

## Rear panel



At the rear panel of the Level One are all the connections provided.

### 1) 24 Volts power connector

The included 24 volts power supply(24 volt DC) should be connected to this connector. Pay attention to the polarity when connecting the power supply.

### 2) XLR Input connectors

The signal coming from the input device such as an audio source,mixing table, pre-amplifier should be connected to the 3-pin Female XLR inputs.

### 3) XLR Output connectors

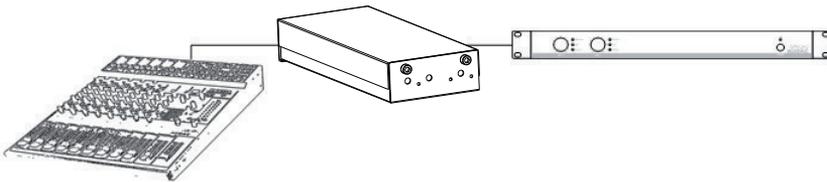
The output signal is available at these 3-pin Male XLR connectors.

The output signal is the audio signal which is driven through the limiting circuit.

The level of the output signal will always be lower or equal to the selected limiting level.

## Level One quick start guide

This chapter guides you through the setup process of a basic project with one Level One Limiter, an audio source device (mixing table) and a power amplifier.



Overview of the Level One set up

### 1) Connecting the Level One

Connect your audio source device to the Female XLR input connectors and connect your power amplifiers to the Male XLR output connectors on the rear side of the Level One. Connect the included power supply (24 volt DC) to the Euro-Terminal Block connector. Watch the polarity when connecting the power supply.

### 2) Adjusting the Limiter

Adjust the limit level until the red led indicator is full (not flashing any more). Now adjust the desired left and right max input levels. When finished, put the cover back on and seal or pad-lock the device.

### 3) Ready

Your system is now working properly and ready for use.

# Technical specifications

**Peripheral**

Inputs	2x Balanced Line audio input
Outputs	2x Balanced Line audio output

**Connectors**

Audio input	3-Pin Female XLR
Audio output	3-Pin Male XLR

Power	2-pin Euro Terminal Block
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**Specifications**

Level range	-100 dBV to 0 dBV
THD+N	<0.15%
Signal / Noise	>90dB
Frequency response	20Hz-20kHz

**Other**

Power supply	24V DC PSD242 switching power supply included 100~240V AC / 47~63
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Dimensions	110x44x260mm
Weight	1Kg