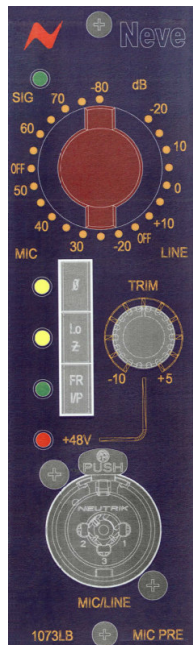




# 1073 LB Rack Module



## User Manual

527 - 399  
Issue 1

The 1073 Rack Module is a compact version of the classic 1073 Mic Pre, designed for use in the Lunchbox™.

**Health & Safety Notice****For your own safety and the protection of others,  
please observe the following safety instructions:**

- Read these instructions.
- Heed all safety warnings.
- Do not use near water.
- Clean only with a dry cloth.
- Do not install near heat sources.
- Do not block ventilation openings.
- There are no user serviceable parts inside.
- Unplug when unused for long periods of time.
- Refer all servicing to qualified personnel only.

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The 1073LB module is designed for use in the Lunchbox™.  
**Lunchbox™** is a trademark of Automated Processes, Inc.

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## 1073LB Lunchbox™ Module

### Introduction



Launched in 1970, the original Neve 1073 module is perhaps the world's most famous and desirable mic pre-amplifier for recording vocals and instruments of all types.

The first choice of countless leading producers & artists, the 1073 delivers the unique Neve sound featured on some of the most famous recordings of the past 40 years.

The big, punchy sound of the 1073 classic, compliments any musical genre – from rock to pop, hip-hop to rap, thrash to classical.

And now it is available for your Lunchbox™.

Crafted in England by Neve engineers, the 1073LB retains the sonic characteristics of the original 1073 classic microphone pre-amplifier by using the same architecture, matching components and original hand-wound transformers.

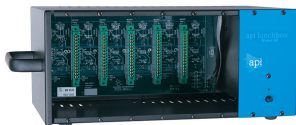
It delivers it in a modern and portable form-factor that professional producers and engineers demand.

With new features like a fine Trim control, switchable mic input impedance, signal presence led, and intelligent protected switching of the front combination XLR input connector, the 1073LB takes your Lunchbox™ to the next level.

It also uses Neve's *Audio Processing Insert* technology, where processing from adjacent modules in the same Lunchbox™ can be inserted into the 1073LB's pre-output stage, meaning an external EQ becomes a true insert, rather than forming the end of an audio chain.

Simply install the 1073LB into an empty slot in your compatible Lunchbox™ rack, connect your microphone or line level signals, and inject that legendary sound into your audio creations.

### Housing



The 1073LB has been designed for use in an **Lunchbox™** unit, which can hold up to six modules in a single unit.

For more information on the Lunchbox™, please refer to:

<http://www.apiaudio.com/5006b.html>

### Installation

When inserting the module, ensure the 15-pin edge-connector mates securely with the backplane connector.

The modules are not designed to be hot-plugged, so always ensure the power is off before inserting or removing a module.

### Power

The 1073LB module does not have a separate power switch, it is switched on/off via the power switch on the Lunchbox™ housing.

## Front Panel Controls

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### Sig led

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A two-colour led gives an indication of the incoming signal level:

- Lights green between -25dB and +26dB.
- Lights red at +26dB or higher.

### Input Gain

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- Runs from -20dB to +10dB in 5dB steps for the **Line** input;
- Runs from -20dB to -80dB for the **Mic** input (with an **OFF** position between the 50dB and 55dB steps).

If this control is set to a Mic Gain position with phantom power applied and the knob is turned to a Line Gain setting, the phantom power will automatically be switched off.

Phantom power will not be available if this control is set to a Line Gain value.

### Lo Z

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1200ohm (Hi-Z) or 300ohm (Lo-Z) input impedance transformer coupled stage.

With this button pressed, the led will light yellow and the low impedance will be applied to the incoming Mic signal.

### ∅

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Phase button.  
Inverts the phase of the selected signal.

### FR I/P

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This switch selects the input signal from the front of the unit to be used (be it **Mic** or **Line**) rather than the input on the rear of the Lunchbox™ unit.

The led will light green when the Front Input is selected.

Selecting (or de-selecting) **FR I/P** will also turn off the phantom power if it is active at the time.

### 48v led

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Applied to both front & rear Mic inputs, the phantom power is applied by pressing the **Trim** control.

The **+48v** led will light red to show when phantom power is in circuit.

## Line Input

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Electronically balanced input stage.

Gain from this input is applied in the second class A gain stage and is output through the same class A transformer coupled output stage as the Mic input.

Line input is selected by ensuring there is a Line Input jack connected to the combo connector on the front of the unit and **FR I/P** is selected.

## Trim

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Applied to both Mics and the Line input, the signal is fed into a transformer balanced class A output stage via a -10dB/+5dB trim pot.

There is a centre detent at 0dB.

## Combo Connector

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	1/4" Jack	XLR
Hot	Tip	2
Cold	Ring	3
Ground	Sleeve	1

This accepts either an XLR (for Mic) or a Jack (for Line) connector, both of which are in parallel with each other.

The pin-outs for the XLR connector are marked on the front.

## Lunchbox™ Rear Panel Connectors

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**Output**  
Male XLR.

**Input**  
Female XLR.  
Maximum input level of +26dBu and an input impedance of 20kohms.

**Power**  
Standard 3-pin earthed IEC connector.

## Dimensions

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Height mm (inches)	Width mm (inches)	Depth cm (inches) <sup>1</sup>	Weight kg (lbs)
132 (5¼)	38 (1½)	145 (5¾)	1.1 (2½)

<sup>1</sup> Excludes clearance for front panel controls and rear connectors.

## Audio Specifications

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<b>Mic Input</b> <sup>2</sup>	Switchable impedance (300Ω or 1200Ω) Gain -80dB to -20dB in 5dB steps
<b>Line Input</b> <sup>2</sup>	Impedance 4kΩ bridging Gain -20dB to +10dB in 5dB steps
<b>Output</b> <sup>2</sup>	Max Output +28dBu Output Impedance 75Ω @ 1kHz
<b>Distortion</b>	0.07% from 50Hz to 10kHz @ +20dBu output (80kHz bandwidth)
<b>Frequency Response</b>	+/-0.5dB 20Hz to 20kHz, -3dB @ 40 kHz
<b>EIN</b>	Better than -125dBu @ 60dB gain
<b>Noise</b>	-82dBu at all Line gain settings (22Hz to 22kHz bandwidth)

<sup>2</sup> Transformer balanced and earth free.