

Lindell Plugins

LINDELL 69 SERIES

Channel + Buss





Lindell 69 Channel

Lindell 69 Channel Toolbar.

TOOLBAR

A / B

Gives access to two different settings, for quick comparison. The selected memory appears in blue. All the parameter changes or preset loads affect only the selected memory.

Copy Button (>)

When clicked, the current memory is copied to the other memory.

In / Out Gains

These parameters give a precise control on the gain staging of the plugin.

MENU

Common commands

« Set in all instances » copies the parameter value to all the instances of the plugin in the session.

« Save as default » sets the current parameter value as the default one when the plugin opens.

About

Shows the plugin version and credits information.

Calibration

You can chose the calibration level here (the mapping between the real digital dBFS level and the virtual dBu level in the simulated circuits).

The calibration level is often expressed as XX dBFS = 0 VU (or +4 dBu). Even if the plugin doesn't have a VU meter (but a meter showing dBu values), we chose to keep this notation.

Oversampling

You can select the oversampling mode here. Higher oversampling reduces aliasing problem but makes the processing n-times more CPU intensive.

UI Zoom

The Lindell 69 Channel UI size can be reduced using this menu options from 80% to 150% of its normal size.

Note that the plugins size will never get larger than 80% of the screen width/height, regardless of the UI Zoom setting. This means that the higher values will result in the same plugin size on a small notebook screen for instance.

Noise

The plugin adds a very low amount of noise that is usually inaudible (the noise floor). It can be turned off here.

Lim. Sensitivity

The hardware compressor/limiter sensitivity can be too high for modern mixing. The user can lower the input and increase the output to lower the sensitivity, but the output gain range is limited.

This plugin adds a sensitivity setting in the menu to chose between :

- Normal (the same as the original circuit)
- Mid (-7dB)
- Low (-15dB)

METERS

Level meter

Shows the dBu input or output level, depending on the preamp module corresponding switch position.

Gain reduction meter

Show the compressor / expander gain reduction in dB.



PREAMP

THD

Controls the amount of harmonic distortion of the circuits. The middle position corresponds to the normal behavior of the emulated circuit.

Gain

Input gain.

-20 dB Pad

Reduces the volume before the input, and before the input meter.

Meter

Controls what is measured in the level meter, input (signal coming into the plugin, after -20dB pad) or output (signal going out of the plugin).

Unity

Activates a unity gain mode: the input gain is compensated after the output of the plugin. If the -20 dB pad is active, it is also compensated by a 20 dB boost on the output.



FILTERS



High

+ / - 10 dB high shelf filter, at [6, 10, 14] kHz.

Mid

+ / - 16 dB continuous peaking filter, at [0.7, 1, 1.4, 2, 2.8, 3.5, 4.5, 6] kHz.

Bass

0 to +16 dB peaking filter at [60, 100, 200, 300] Hz.

-15 to 0 dB shelving filter at 50Hz in 3 dB steps.

In

Enables the 3 band equalizer circuit.

Pre / Post

Controls if the equalizer is inserted before or after the compressor / expander.

Filter

High pass filter operating at [40, 80] Hz. The low position turns the filter off.

COMPRESSOR - EXPANDER



SC HPF

Controls the frequency of the compressor side chain high pass filters.

In the full anti-clockwise position, this filter is deactivated. When this filter is active, a label displays the filter frequency above the knob.

Mix

Controls the amount of unprocessed ("DRY") and processed ("WET") signals mixed together at the compressor output.

Limit

Activates The limiter. The limiter threshold is fixed but the compressor / limiter sensitivity can be adjusted in the menu.

Ratio

Compression ratio when the signal is above the compression threshold.

Release

Controls the time it takes to recover after compression.

The « auto » setting has a different release time for fast or long audio peaks.

Attack

3 position attack timing [Fast: 0.025ms, Mid: 2.5ms, Slow: 25ms].

Threshold

Compressor side chain level over which the plugin will start compressing the signal.

The threshold is relative to the fixed limiter threshold.

Input - Output

Adjust the limiter threshold with the input gain, and use the output gain as a makeup gain.

In

Activates the compressor and the expander/noise gate.

Niveau

Activates a filter on the compressors side chains to compensate the natural 3 dB/oct slope of music. It helps to get a natural and transparent kind of mastering compression.

Smash

Boosts the input by 20db and compensates the output gain to unity gain. Use this feature for bombastic drums and hard pumping vocals.

Suggested operation

Switch the limiter on and compression threshold at 0dB.

Adjust the Input knob until the limiter flashes on all the signal peaks.

Adjust the output knob to get the desired peak level on the plugin output level meter.

Lower the compression threshold until the limiter flashes only for the highest peaks.



Range

Amount of gain reduction when the expander/gate is active.

Release

Release timing [Fast: 25ms ... Slow: 1.6s].

Attack

Attack timing [Fast: 0.02ms, Mid: 2.5ms, Slow: 40ms].

Threshold

Below this level, the expander / noise gate will close.

Mode

In the middle position, the expander / noise gate is off. It can be switched to operate in expander (down) or noise gate (up) modes.

The expander operates in feed forward mode and the noise gate in feed back mode.

Hold

Holds the expander/gate open a little moment after it opened, even if the signal level has already dropped below the threshold.

Inv.

Inverts the Expander/Gate operation. The signal is reduced when its level is above the threshold.

TMT

TMT technology is provided by Brainworx. It models the real life electronic components value variations from the theoretical schematics value.

Previous / Next

Switches to the previous or next virtual channel of the console.

When used in stereo multi channel tracks, consecutive TMT channel are used.

Link

Affects the same virtual channel to left and right, so they are processed exactly the same way and the stereo isn't affected.

Random ONE

Choses random TMT channels.

Random ALL

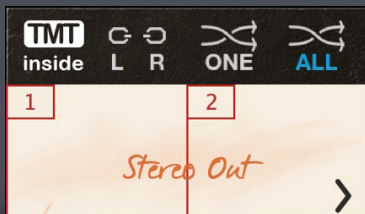
Choses random TMT channels for all the plugin instances in the session.

Channel Number(s)

Displays the TMT channel number(s). On this picture the stereo track will use TMT channels 11 (Left) and 12 (Right).

Track Name

Displays the track name in the DAW. This feature is compatible with : ProTools, Logic Pro, Cubase, Reaper (VST3), Ableton Live, Studio One (AU).



MASTER



Cut

Mutes the plugin output.

Phase

Inverts the signal phase.

Level fader

Output level of the plugin. The fader is inserted before the last amplification stage and output transformer so it has an impact on the amount of harmonic distortion.



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METERS

In Level meter

Shows the dBu input level.

Out Level meter

Show the dBu output level of the plugin.



LINE AMP

THD

Controls the amount of harmonic distortion of the circuits. The middle position corresponds to the normal behavior of the emulated circuit.

Gain

+ / - 15 dB gain.

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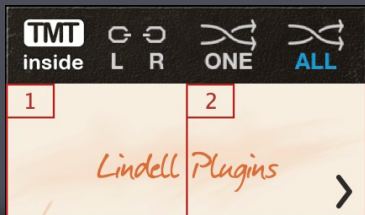
Choses random TMT channels for all the plugin instances in the session.

Channel Number(s)

Displays the TMT channel number(s). On this picture the stereo track will use TMT channels 5 (Left) and 6 (Right).

Track Name

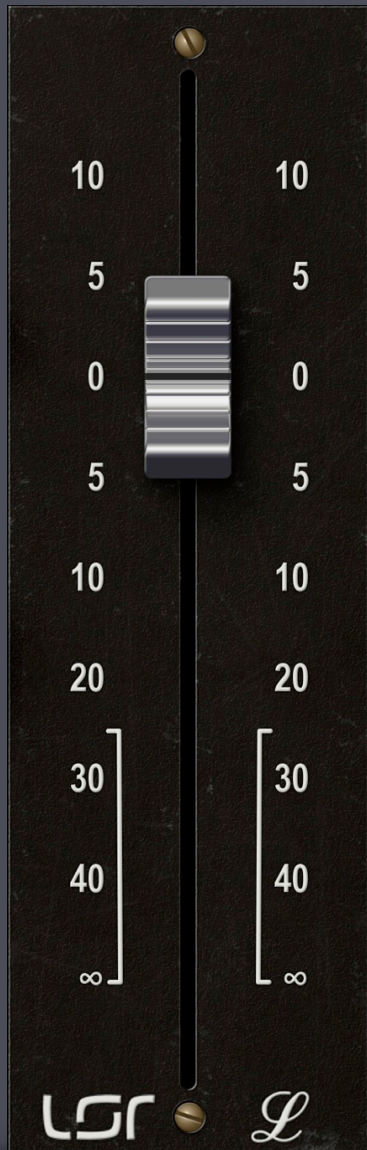
Displays the track name in the DAW (with compatible DAWs such as ProTools, Logic Pro, Cubase).



MASTER

Level fader

Output level of the plugin. The fader is inserted before the last amplification stage and output transformer so it has an impact on the amount of harmonic distortion.



CREDITS

Emmanuel Dubecq - LSR audio

Programming

Graphics

Circuit modeling

Tobias Lindell - Lindell Audio

Concept

Tests and tuning

Presets

Brainworx

TMT Technology licensed from Brainworx