speck electronics

LiLo Line Mixer

What is the LiLo Mixer ?

The LiLo is a high-definition desktop analog line mixer for routing and blending your external gear. Short for Line-in/Line-out, the LiLo was designed as a "quiet-transparent" platform that allows you to build a mixing system using the gear you already own.

Design Philosophy

One glance at the LiLo and you will realize that you are not looking at a conventional mixer. The first thing you will notice is the minimalist layout of the LiLo. This unpretentious design lacks mic preamps, equalizers, and is in short supply of knobs and switches. In their place, we bring you a well-designed 32 input mixer with unmatched signal routing, generous amounts of headroom, and a transparent signal path.

The Lilo line mixer allows you to connect and mix your external gear and DAW without the limitations imposed by traditional recording consoles.

The In's & Out's

All audio inputs, outputs, and inserts are fully balanced and available on XLR and TRS connectors. Connect the LiLo to virtually any line level source: balanced, unbalanced, transformer, or transformer-less.

The LiLo has high headroom that will handle balanced signals up to +28dBu. Balanced transformers are standard on the main feed and are optional on other outputs.

Features

- 32 line inputs + stereo mix + 2 group busses.
- Four aux sends and two stereo aux returns.
- Modular construction for easy expansion and service.
- All inputs, outputs, and inserts are fully balanced.
- Jensen transformers on mix outputs.
- Illuminated VU meters.
- All line amps and combining amps use plug-in modules for easy circuit upgrades.
- Creative and customizable signal routing with configuration switches that are accessible from the top panel.

Options

- Mixer stand
- Discrete "Class A" plug-in cards for Line Input and Output amps (TBA)
- Jensen transformers on group outputs.

Specifications

Frequency Response (12 dB gain)
10Hz-30kHz (+0/-.5dB)

THD+n (Gain 12, Output +24dBu)
.0024%

Crosstalk (1kHz)
-100dBu (Channel to channel)
-95dBu (Input to Mix out, channel muted)
-89dBu (Input to Mix out, channel fader off)

Noise (22Hz-22kHz)
-102dBu (Residual output noise)
-81dBu (16 channels routed, faders up)
-84dBu (16 channels routed, faders off)
-90dBu (16 channels routed, faders off, and muted)

Maximum input level
+28dBu

Maximum output level
+28dBu at active outputs
+24dBu at transformer outputs

Output Impedance
60 Ohms (All Active-balanced outputs)
600 Ohms (All Xformer-balanced outputs)

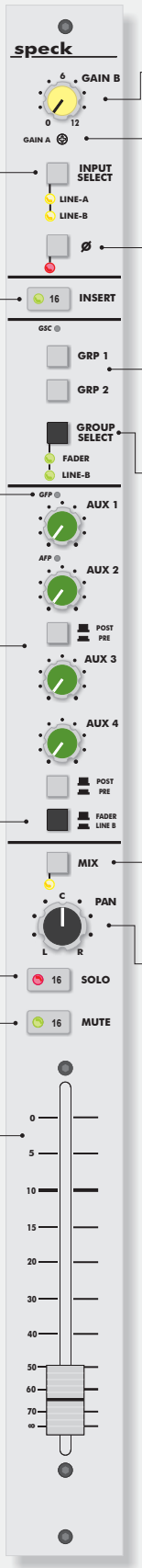
Dimensions (Mixer)
WxDxH=28.5" x 24.5" x 10"
(724mm x 645mm x 254mm)

Dimensions (External supply)
WxDxH=7" x 17" x 5.5"
(178mm x 432mm x 140mm)

Weight (Mixer)
50 Lbs (22.7kg)

Weight (External supply)
19 Lbs (8.6kg)

Input Module



The Line-B gain control provides up to 12dB of gain for the Line-B input.

The Line-A gain trim provides up to 12dB of gain for the Line-A input.

Each input module has two balanced XLR inputs. This switch selects the Line-A or Line-B input.

This switch reverses the polarity of the input signal by 180 degrees.

When this switch is depressed, any audio device connected to the balanced insert connectors is inserted in the channel's audio path.

The GRP 1 and GRP 2 pushbutton switches allow an input channel to be assigned and mixed to the two individual subgroups.

The AFP, GFP, and GSC configuration switches change the operation of many controls such as aux sends, group assigns and pan assignment.

The Group Select switch can double the input power of the LiLo by establishing a "Dual Path" for each input channel. When depressed, the source for the group assign switches is exclusively the signal connected to the Line B input.

Each input channel has four aux sends that can be switched pre or post the fader.

When depressed, the source for aux sends 3 and 4 is exclusively the signal connected to the Line B input.

The Mix assign switch allows an input channel to be mixed to the left/right main output.

This center detent pan control places the input signal anywhere in the stereo left/right perspective.

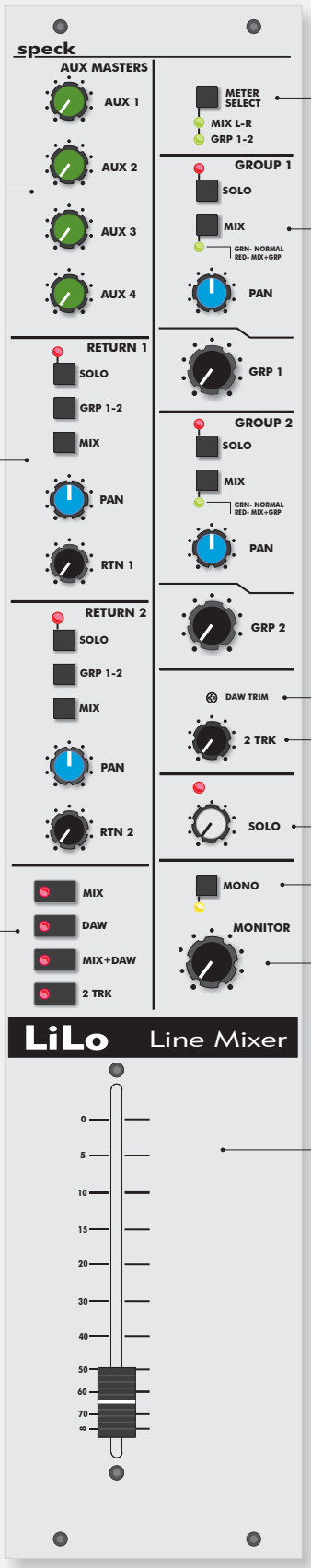
Solo (In-Place)

Mute

100mm slider

Input Module I/O

Master Module



This switch selects the source to the VU meters; either the main L-R mix outputs or group 1-2 outputs.

Four aux masters provide master level control to the balanced aux send outputs on the rear panel.

There are two group master sections on the LiLo mixer. Each section includes a **Group Master** level that controls a balanced XLR output on the rear panel, a **Mix** assign that in conjunction with the **Pan** control assigns the group mix to the main left/right mix, and a in-place **Solo**.

There are two aux return sections incorporated into the LiLo. Each stereo aux return includes a stereo **Return Level** control, **Pan** control, **Mix** assign, **Group Assign**, and In-place **Solo** switch.

The DAW return trim pot adjusts the level of an any external stereo source connected to the DAW returns on the rear panel.

The 2 Track return adjusts the level of an any external stereo source connected to the 2T returns on the rear panel.

Solo master level control

Four pushbutton switches select the source to the monitor master control. The source for the monitor can be; (A) the LiLo stereo **Mix**, (B) the stereo **DAW** return only, (C) the LiLo **Mix plus a DAW** return, or (D) any **2 Track** return or any stereo line signal.

The Mono switch sums the left and right signal to the monitor mix.

This Monitor Master controls the overall level to the stereo monitor outputs.

100mm Stereo Master

Master Module I/O

Speck Electronics • 341 E. Alvarado Street, Fallbrook, California 92028, USA
Voice: +760-723-4281 • Fax: +760-723-3294 • email: sales@speck.com • www.speck.com