Send and Return Utilities
Mix AB+ || 1-Send || 2to2S || 2to2G

https://spacef-devices.com

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General information

These devices are designed to manage two external mono effects such as spring tanks.

They function as advanced "Send and Return" devices, but can serve other purposes as you see fit.

- All devices support MIDI and presets.
- They feature phase inversion, a 24dB gain, insert effects, and panning in 2to2S and 2to2G.
- Each device includes a crossfade feature between "Post Fx 1" (post-pan if stereo) and "Post Fx1 + Fx2," acting as a dry/wet parameter for Fx2.

  For example, with an EQ and auto-wah, you can crossfade between "EQ Only" and "EQ + Auto-Wah." Without anything in Fx1, it's a crossfade between "No Fx" and "Auto-Wah," similar to a dry/wet parameter. This is particularly useful for insert effects without a dry/wet option or for parallel compression and other fun experiments.

- You can rename the project module by typing under the device name at the top-left of the panel.

Mix AB+

This device sends signals to two external mono effects.

It has three inputs per channel for connecting sources (e.g., an ASIO source, a wave source, and an aux send from a mixer).

You can use 2 mono insert effects and crossfade between *"Fx1"* and *"Fx1+Fx2."*

1-Send

1-send operates similarly to Mix AB+ but with only one channel.

2to2S

Functions as a "return utility" from two external mono effects, including 24dB gain, phase inversion, insert effects (one mono, one stereo), and panning between the two effects.

The "Blend" controls allow crossfading between "Fx 1 post-pan" and "post Fx2."

a) Outputs

- LR output mixes signals for monitoring (through a scope mixer).
- 1LR outputs channel 1 (out 1L and 1R) for recording channel 1 separately.
- 2LR outputs channel 2 (out 2L and 2R) for recording channel 2 separately.

b) Record Channels

- Allows separate recording of each channel's output.
- The sound is captured post-crossfader and is always stereo (to record in mono, center all pans and avoid using Fx2).

2to2S is designed to be as efficient as possible while providing useful monitoring for recording external mono effects. If you want to record fully mono, just turn the crossfader post Fx1 and check that Pan is centered.

2to2G

Similar to 2to2S but much more sophisticated; it includes a special Gate before the 24dB amplifier, and different record channels.

a) Gate

A custom Gate developed by SpaceF, ideal for managing the noise floor and reverb tails of reverb effects.

It features four parameters: Threshold, Attack, Release, and Gate Glue, which delays the gate's closing by 0 (off), 3, or 6dB, allowing for more natural sound transitions.

b) Gate Glue

"Gate glue" delays the gate's closing by a specified dB level or multiplier, preventing short sound modulations from causing a "pumping effect."

There are three settings: Off, 3dB (light glue), and 6dB (strong glue), which help maintain the gate fully open longer, simulating a "hold" parameter which would be relative the input sound shape.

c) Record Channels

The source for the record channel can be;
- **MonoFx1;** Post Fx1, Pre-Pan.
- **Stereo;** Post-crossfader, i.e. capturing what is heard on the monitors.

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