

Installation

Shades requires a **-12V/+12V** power supply (2x5 pin connector). The red stripe of the ribbon cable (-12V side) must be oriented on the same side as the "Red stripe" marking on the module and on your power distribution board.

The module draws **15 mA** from both the **+12V** and **-12V** supply rails.

Online manual and help

The full manual can be found online at mutable-instruments.net/modules/shades/manual

For help and discussions, head to mutable-instruments.net/forum



Please refer to the online manual for detailed information regarding compliance with EMC directives

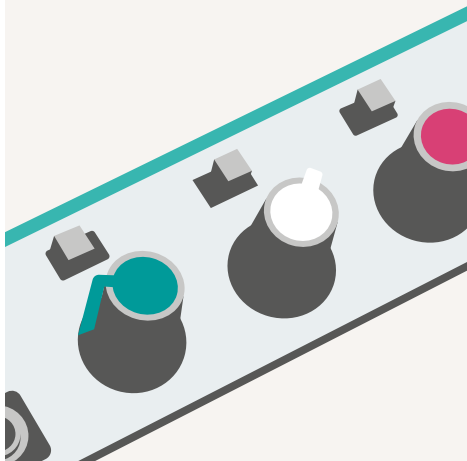


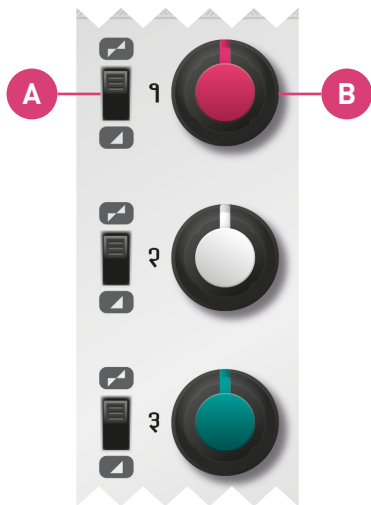
Mutable Instruments



Shades

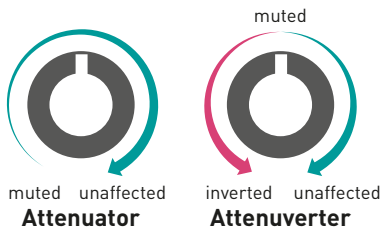
Mixing attenuverter





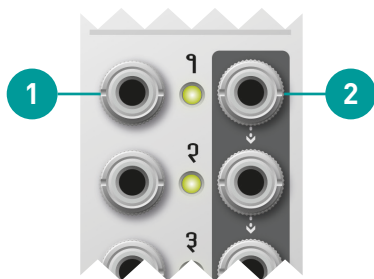
A. Function selector: This switch configures the channel as an attenuator (lower position) or as an attenuverter (upper position).

B. Attenuator/attenuverter: The gain ranges from 0 to 1 (attenuator) or -1 to 1 (attenuverter).



Attenuator

Attenuverter



1. Signal input. When an input is left unpatched, a constant voltage of +5V (or +10V, as set by the jumper on the back of the module) is sent to the attenuverter or attenuator.

2. Signal output. When an output is left unpatched, the signal from this channel is routed and added to the next output.

Patch examples

Mixing. When output 1 is left unconnected, the signal on output 2 is the sum of channel 1 and 2. When outputs 1 and 2 are left unpatched, the signal on output 3 is the sum of all channels.

Offset. Leave channel 1's input and output unpatched. Patch a CV to channel 2's input. Channel 2's output is a scaled and offset version of the CV: channel 1's knob controls the **offset**, channel 2's knob controls the **amplitude** and **polarity** of the original CV.