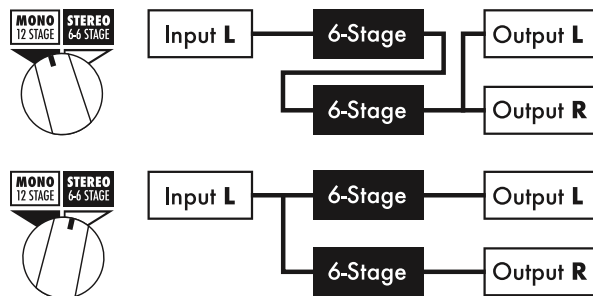


PHASE it's a 12-stage all-analog optical stereo phaser specifically engineered for studio production and live-mix settings. Old-school mojo with modern improvements and routing versatility packed in an easy-to-use layout.

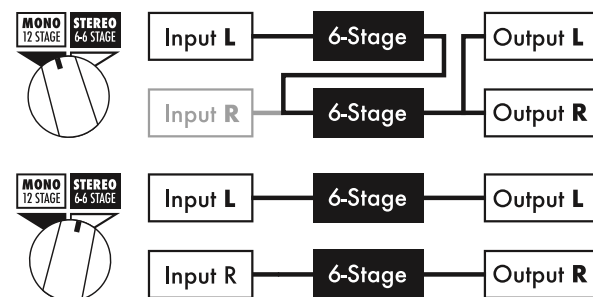
PHASE is an optical, photoresistor-based phaser design, featuring a 12-stage MONO or a 6-stage STEREO phaser. You can switch between the two modes with the "Mode Select" control at any time allowing for a wider sound palette regardless of the wiring.

As any other BENIDUB device, its built with high quality components for a rich, complex and organic sound. We also packed it with several convenience features, routing possibilities (check the AUX/INSERT controls!) and our signature performance-oriented design, making it one of the most versatile and compact optical phaser on the market.

Routing Schematic - MONO INPUT



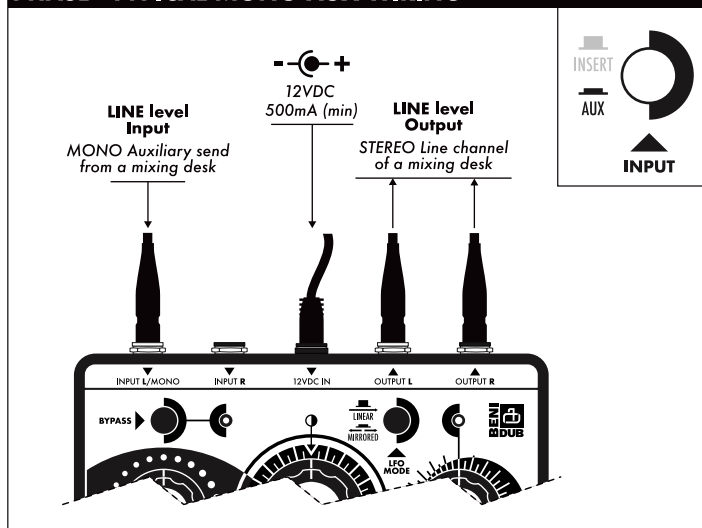
Routing Schematic - STEREO INPUT



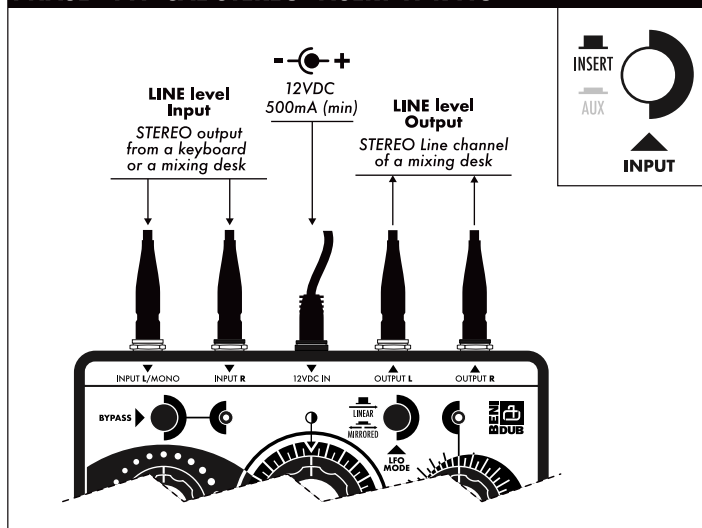
For a correct use of the Benidub Phase:

- 1 - The Benidub Phase provides a line-output, it needs to be connected to a line-input channel of a mixer or preamp.
- 2 - The Benidub Phase is designed to receive a line-level signal. Don't use it with a guitar, mic or similiar sources.
- 3 - AUX/INSERT: set it on AUX if the unit goes to an "Auxiliary Send" or an auxiliary mix. Set it on INSERT to use it as a stand alone stompbox.
- 4 - Only use the provided power supply or one compatible with the specifications.

PHASE - TYPICAL MONO AUX WIRING



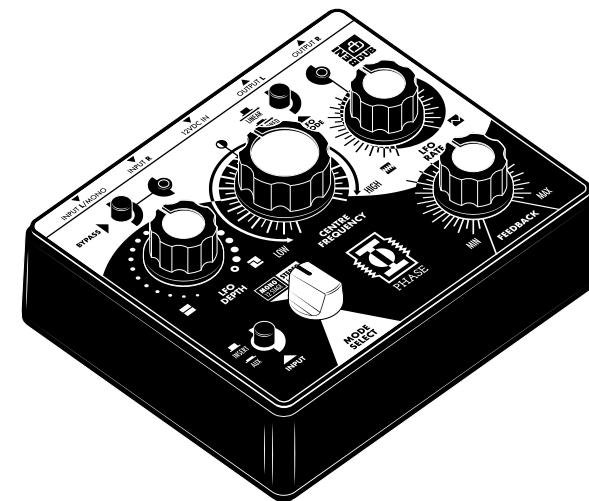
PHASE - TYPICAL STEREO INSERT WIRING



BENIDUB

PHASE

12-Stage Stereo Optical Phaser



User manual

Designed and manufactured by



Info:

www.benidub.com

orders@benidub.com

Technical Specifications:

Power Supply: 12VDC, center positive, 2.1mm x 5.5mm barrel type connector.

Current draw: less than 500mA

Audio input: 1/4" balanced or unbalanced Jack

Audio output: 1/4" balanced or unbalanced Jack

Size: 120x150x60 mm

Made in Spain



INPUT L/MONO

1/4" Balanced or Unbalanced Jack. The "main" mono input of the unit.

INPUT R

1/4" Balanced or Unbalanced Jack.

12VDC IN

12VDC 500mA (Min.), centre positive, 2.1mm x 5.5mm barrel type connector.

OUTPUT L

1/4" Balanced or Unbalanced Jack.

OUTPUT R

1/4" Balanced or Unbalanced Jack.

BYPASS

Turns off the out of phase signal, thereby stopping the phaser effect.

LFO DEPTH

Sets the amount of modulation.

LFO RATE

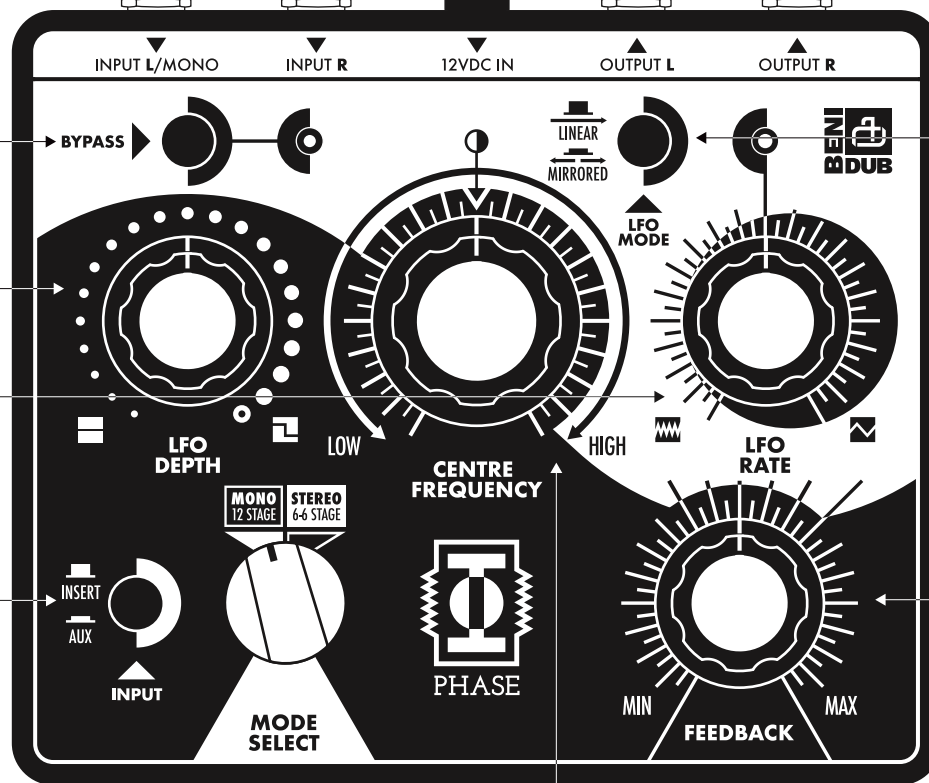
Sets the modulation speed.

INPUT

On *INSERT* mode, you got the usual 50/50 dry signal.
On *AUX* mode, you got the full wet signal. Set it on *AUX* if the unit is fed from an mixer auxiliary send.
Set it on *INSERT* to use it as a stand alone unit or using mixer sub-group/alternate out.

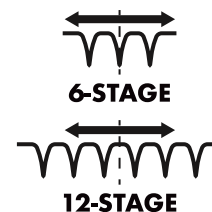
MODE SELECT

Switch between *MONO* and *STEREO* mode.
On *MONO* you get 12 stages.
On *STEREO* you get 6-stages per channel. The stereo mode can be used with a mono input to generate a mono-to-stereo output.



CENTRE FREQUENCY

Sets the frequency that the phaser will revolve around.
The Centre Frequency determines where the middle of the comb-filter will be on the spectrum.
This will shift all notches either up or down.

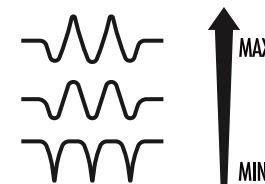


LINEAR/MIRRORED

Switch between *LINEAR* or *MIRRORED* modulation.
In *LINEAR* mode, all the 12 (6+6) stages will receive the same modulation. In *MIRRORED* mode, the first batch of stages modulation will be inverted.

	MONO 12 Stage	STEREO 6+6 Stage
LINEAR		
MIRRORED		

FEEDBACK



Similar to a "resonance" parameter, the feedback knob controls the amount of phase-shifted signal that gets fed back through the phase-shifting circuit. By increasing the feedback, the peaks's resonance will be sharper and more intense.