ADDAC
ADDAC209
VC COMP. GLIDE

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0   10
GLIDE

LINEAR   EQUAL
GLIDE TIME
COMPENSATION

OFF   ON
GLIDE

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CON

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ADDAC SYSTEM
2014

ADDAC
System

ADDAC209 VC TIME COMPENSATED GLIDE
USER'S GUIDE

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ADDAC209 VC TIME COMP. GLIDE USER'S GUIDE
Revision.01 August.2014

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OVERVIEW

This is our take on a glide/slew circuit, it introduces a time compensation for the glide/slew rate so that any interval have the same glide time.

Normal glides have a fixed speed, they take X time to go up a semitone and X*12 to go up an octave, we thought of adding a compensation circuit to detect and dynamically change the speed according to the distance needed to be made, so that in the end it'll take the same time to reach the final destination no matter if the interval is 1 semitone or 3 octaves. This compensation feature (dry/wet) can controlled by the front panel knob or by CV.

Features:
VC Glide time
VC Compensation (dry/wet)
On/Off true bypass switch

Completely analog circuitry.

Specs

Mechanical:
. Format: Eurorack
. Width: 4 HP
. Depth: 5.5 cm

Electrical:
. Max current: 60mA.
. Bus Board Cable: 8 × 2 IDC (Doepfer style) connector.

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FUNCTIONS

LEDS
The leds show the direction in which the glide is moving, up or down. The led intensity also shows how far it is from the destination voltage, it dims out as it gets closer and closer.

GLIDE / SLEW TIME Knob
Glide sets the glide/slew time

GLIDE TIME COMPENSATION Knob
Sets the compensation factor from no compensation to equal time intervals.

GLIDE ON / OFF Switch
True bypass.

GLIDE CV INPUT
When using a CV input GLIDE Knob works as an offset for the incoming CV.

TIME COMPENSATION CV INPUT
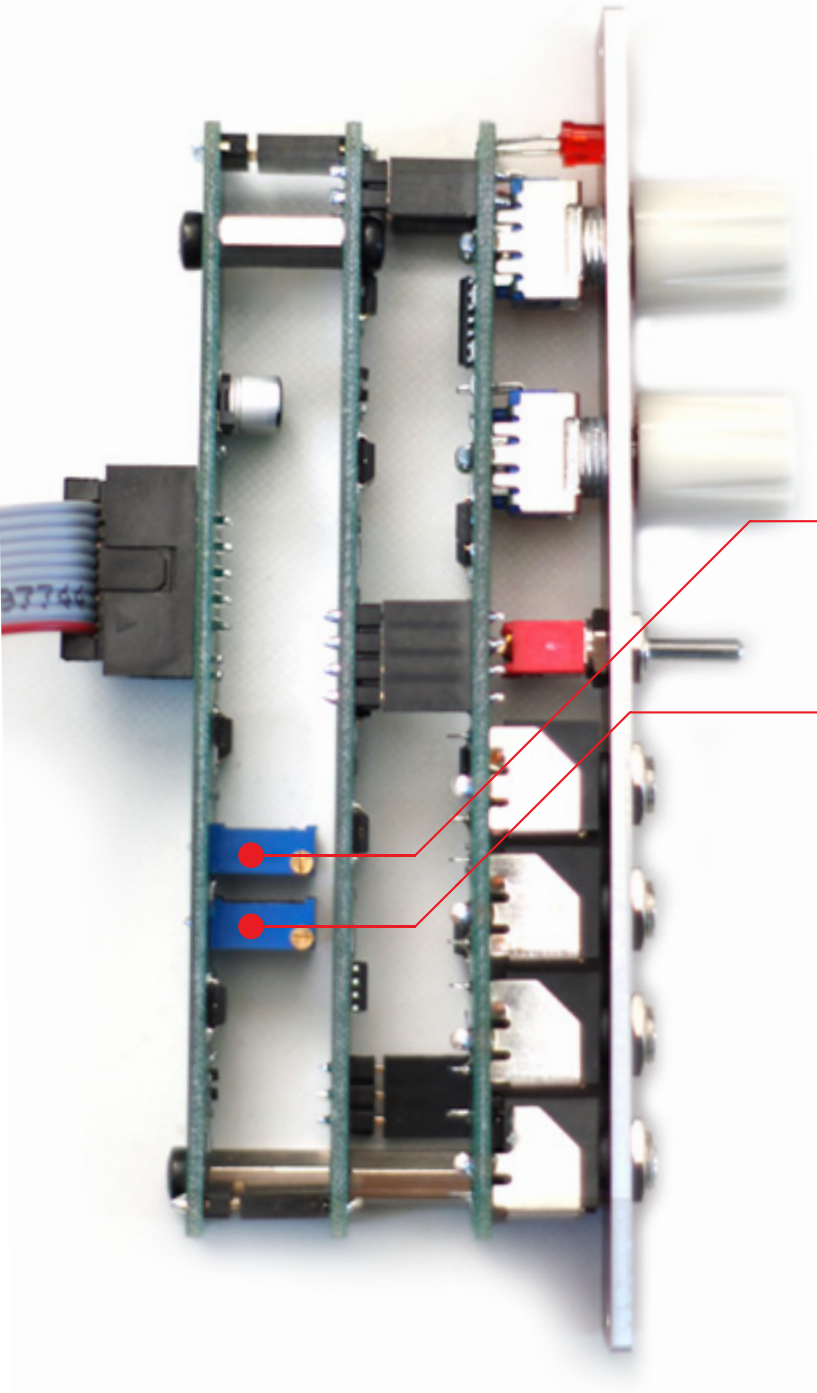When using a CV input GLIDE TIME Knob works as an offset for the incoming CV.

CV INPUT
CV to be modulated.

CV OUTPUT
Modulated CV output.

CALIBRATION TRIMMERS

This module is particularly sensitive to the power supply voltage, because no PSU provides perfect ±12V and in order to calibrate the module to your particular power supply we added 2 trimmers on the side of the module, these are used to calibrate the maximum glide time and time compensation.

These are labeled as:

"- TRIM"
This is the most sensitive trimmer and it sets the Maximum Glide amount. Turning it Clockwise will make longer glide times.

"COMPENSATION"
This trimmer adjusts the Compensation Pot / CV reaction.
Turning it Clockwise will reach Equal Compensation at lower voltage values.

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