Melisma
CV2MIDI Alternate Mode
May 3 2023
SDS DIGITAL MODULAR

I. Switching to CV2MIDI Mode

Modes can be switched without power down. In Melisma mode, go to [SETTINGS] QB and open. Scroll to the bottom to find "SWITCH TO CV2MIDI:N". Select and change to "Y" (yes)
The module will re-start in CV2MIDI mode. To switch back, scroll down to "*EXIT TO MELISMA" and click encoder.

II. Operation

In this mode there are no QB's, just a jack configuration list. Some jacks can be used with adjacent trigger/gate inputs to produce MIDI Notes, while others are restricted to sending MIDI CC's, Pitch Bends, Channel Aftertouch, or Program Changes. The 6 knobs can also be assigned as Attenuvertors, Offsets, or, with adjacent Note jacks, Velocity trimmers.

The settings for each jack are:
JACK: One of the 8 CV input Jacks
FUNC: What is the function of the jack, what will it send over MIDI
VALUE CC#, Pitch Bend fixed offset (useful for microtonal), P.C. offset (Instrument), or Zero-volt Note
CHANNEL

Here is a list of the jacks (as they appear in the list) and their possible functions:
**Note: "---" means jack is turned off*

ROOT:	**CC#:0-127**	**BEND: +/-200cents**	**AfterTouch**	**Prog.Change**	**Note with GATE t/g input**	**"---"**
CHORD:	**CC#:0-127**	**BEND: +/-200cents**	**AfterTouch**	**Prog.Change**	**Note with HOLD t/g input**	**"---"**
SPRED:	**CC#:0-127**	**BEND: +/-200cents**	**AfterTouch**	**Prog.Change**	**Note with ACLK t/g input**	**"---"**
XPAND:	**CC#:0-127**	**BEND: +/-200cents**	**AfterTouch**	**Prog.Change**	**"---"**	
INVER:	**CC#:0-127**	**BEND: +/-200cents**	**AfterTouch**	**Prog.Change**	**"---"**	
LHAND:	**CC#:0-127**	**BEND: +/-200cents**	**AfterTouch**	**Prog.Change**	**"---"**	
VELOC:	**CC#:0-127**	**BEND: +/-200cents**	**AfterTouch**	**Prog.Change**	**"---"**	
CC CV:	**CC#:0-127**	**BEND: +/-200cents**	**AfterTouch**	**Prog.Change**	**"---"**	

** If a jack is disabled, it's settings with different functions will be retained.*
** Offsets for P.C. and pitchbend can be set. Pitchbend can be + / - values*
** CV Input for notes is 1V/Octave*

Here is a list of each knob and what functions can be assigned:

ROOT, CHORD, & SPRED knobs:

"-----"	**No Knob function**
ATTEN (+/-):	**Attenuates adjacent jack (+) or (-) (inverted) so at center is fully attenuated (minimal jack CV affect)**
OFFSET:	**Offsets the adjacent Jack Voltage but in MIDI values**
VELOCITY:	**Sets the velocity of the adjacent row's notes (Adjacent jack must be set to NOTE of course)**

INVRS, VELOC, MIDCC knobs:

"-----"	**No Knob function**
ATTEN (+/-):	**Attenuates positive or negative (inverted) so at center is fully attenuated (esp. useful for pitchbend)**
OFFSET:	**Offsets the Jack Voltage but in MIDI values**

Tips:
P.C.
Unless using an input CV jack to control Program Changes, the offset knob can be jumpy, so best set your PC's on the synth or in Melisma Mode (if using same channels). Setting the offset range on the display won't update until there's a CV change/knob change.

Zero-Volt Note
When a jack is set to send notes, the value following can be set to act as an offset for the note that will be played at zero volts input. As the input can also be negative, notes below the zero volt note can still be played. I use 36 or 48 generally.

Pitch Bend
The CV to Pitchbend has a 4,000 step range so will be quite smooth!

Bandwidth
More active CV's (with CC/PB/AT/PC) will take more of the MIDI bandwidth so be careful about that!

Enjoy!! **Sandy - SDS DIGITAL MODULAR*