CONTROL CHANGE

The CC numbers listed in the tables below are the default values. You may assign arbitrary (0 to 127) to each CC functions using the SV Studio editor software (*Menu > MIDI Configuration*).

OPERATION	CC# (default)	Value Range
Load a Delay algo to X	0	0 - 14
Load a Reverb algo to X	1	0 - 9
Load a Delay algo to Y	2	0 - 14
Load a Reverb algo to Y	3	0 - 9
Set Time on X	4	0 - 127
Set Wet Level on X	5	0 - 127
Set Dry Level on X	6	0 - 127
Set Param1 value on X	7	0 - 127
Set Param2 value on X	8	0 - 127
Set Param3 value on X	9	0 - 127
Set Param4 value on X	10	0 - 127
Set Param5 value on X	11	0 - 127
Set Param6 value on X	12	0 - 127
Set Param7 value on X	13	0 - 127
Set Param8 value on X	14	0 - 127
Set Dynamics on X	15	0 = Off, 127 = On
Set Dynamics Mode on X	16	0 = Ducker, 1 = Gate
Set Dynamics Attack on X	17	0 - 127
Set Dynamics Release on X	18	0 - 127
Set Dynamics Threshold on X	19	0 - 127
Set Dynamics Intensity on X	20	0 - 127
Set Time on Y	21	0 - 127
Set Wet Level on Y	22	0 - 127
Set Dry Level on Y	23	0 - 127
Set Param1 value on Y	24	0 - 127
Set Param2 value on Y	25	0 - 127
Set Param3 value on Y	26	0 - 127
Set Param4 value on Y	27	0 - 127
Set Param5 value on Y	28	0 - 127
Set Param6 value on Y	29	0 - 127

CONTROL CHANGE

The CC numbers listed in the tables below are the default values. You may assign arbitrary (0 to 127) to each CC functions using the SV Studio editor software (*Menu > MIDI Configuration*).

OPERATION	CC# (default)	Value Range
Set Param7 value on Y	30	**0 - 127**
Set Param8 value on Y	31	**0 - 127**
Set Dynamics on Y	32	**0** = Off, **127** = On
Set Dynamics Mode on Y	33	**0** = Ducker, **1** = Gate
Set Dynamics Attack on Y	34	**0 - 127**
Set Dynamics Release on Y	35	**0 - 127**
Set Dynamics Threshold on Y	36	**0 - 127**
Set Dynamics Intensity on Y	37	**0 - 127**
Set Crossover	38	**0** = Off, **127** = On
Set Crossover Mode	39	**0** = LP.X - HP.Y, **127** = HP.X - LP.Y
Set Crossover Frequency	40	**0 - 127**

OPERATION	CC# (default)	Value Range
Set Tempo Mode on X	41	**0** = Free, **127** = Synced/Global
Set Tempo Subdivision on X	42	**0 - 9**
Set Tempo Display on X	43	**0** = Milisecond, **127** = BPM
Set Tempo Change on X	44	**0** = Instant, **127** = Warped
Set Tempo Mode on Y	45	**0** = Free, **127** = Synced/Global
Set Tempo Subdivision on Y	46	**0 - 9**
Set Tempo Display on Y	47	**0** = Milisecond, **127** = BPM
Set Tempo Change on Y	48	**0** = Instant, **127** = Warped

OPERATION	CC# (default)	Value Range
Set XY Routing	49	**0** = Series, **1** = Parallel, **2** = Dual Mono
Set Volume Trim	50	**0 - 6**
Set Bypass Trails	51	**0** = Disabled, **127** = Enabled
Set Spillover	52	**0 - 7**
Set Trails on X	53	**0** = Disabled, **127** = Enabled
Set Trails on Y	54	**0** = Disabled, **127** = Enabled

Subdivision
0 = *1/16 Note*
1 = *1/8 Note Triplet*
2 = *1/8 Note*
3 = *1/4 Note Triplet*
4 = *Golden Ratio*
5 = *Dotted 8th*
6 = *1/4 Note*
7 = *1/2 Note Triplet*
8 = *Dotted 1/4*
9 = *1/2 Note*

Volume Trim
0 = *-3dB*
1 = *-2dB*
2 = *-1dB*
3 = *0 dB*
4 = *+1dB*
5 = *+2dB*
6 = *+3dB*

Spillover
0 = *Off*
1 = *0.5 sec*
2 = *1 sec*
3 = *2 sec*
4 = *4 sec*
5 = *8 sec*
6 = *16 sec*
7 = *Inf*

PARAMETERS	CC# (default)	Value Range
Set DSP X	55	**0** = Off, **127** = On
Set DSP Y	56	**0** = Off, **127** = On
Bypass / Engage	57	**0** = Bypass, **127** = Engage
Tap Tempo	58	**any**
Expression 1	59	**0 - 127**
Expression 2	60	**0 - 127**
Swap XY	61	**any**
Load Patch	62	**0** = Patch A, **1** = Patch B, **2** = Patch C
Patch Scroll	63	**0** = Previous patch, **127** = Next patch
Display Update Inhibit	64	**0** = Disabled, **127** = Enabled
Auto-Ramp	65	**0** = Release, **127** = Trigger
Auto-Ramp X	66	**0** = Release, **127** = Trigger
Auto-Ramp Y	67	**0** = Release, **127** = Trigger
Looper Record	68	**any**
Looper Play	69	**any**
Looper Stop	70	**any**
Looper Erase	71	**any**
Looper 2X Speed	72	**0** = Off, **127** = On
Looper Reverse	73	**0** = Off, **127** = On
Looper AscendDub	74	**0** = Off, **127** = On
Bank Scroll	75	**0** = Bank Down, **127** = Bank Up
Looper Volume	76	**0 - 19**
Sum-to-Mono	77	**0** = Off, **127** = On
Infinity Capture	78	**0** = Stop capture , **127** = Start capture

Added in firmware v1.2.0

Added in firmware v1.4.0

Added in firmware v1.7.1

☞ **Parameter Modulation and Display Update.**

Normally, when you change a parameter value (by sending certain CC messages) the new value will be briefly displayed on the pedal's screen. This is perfectly fine when the parameter value is changed only occasionally, but when the value is changed continuously (e.g. modulated by an LFO) it will then be continuously displayed on the screen as well, rendering the screen unusable for displaying any other information.

This is where the 'Display Update Inhibit' function (default CC#64) comes in handy. You can use it to inhibit the display update so that it doesn't show the parameter value as it is changed. Send the CC value 127 to enable the display inhibit, and CC value 0 to restore the display update functionality.

PROGRAM CHANGE (PC)

Bank	Patch	PC #
1	A	0
	B	1
	C	2
2	A	3
	B	4
	C	5
⋮	⋮	⋮
32	A	93
	B	94
	C	95

Total preset : 96

Revision History
Rev B (Nov 2024) - Pilot public release.
Rev C (Dec 2024) - Added CC#65 through CC#75 (firmware v1.2.0)
Rev D (Jan 2025) - Added CC#76 through CC#77 (firmware v1.4.0)
Rev E (May 2025) - Added CC#78 (firmware v1.7.0)