

Chromatic Pitch knobs

Interval	Half-steps	CC
Off	0	0
Two octaves down	-24	1-2
One octave down	-12	3-11
Maj7 Down	-11	12-15
min7 Down	-10	16-19
Maj6 Down	-9	20-23
min6 Down	-8	24-27
P5 Down	-7	28-31
Aug4/Dim5 Down	-6	32-35
P4 Down	-5	36-39
Maj3 Down	-4	40-43
min3 Down	-3	44-47
Maj2 Down	-2	48-51
min2 Down	-1	52-55
Unison	0	56-71
min2 Up	+1	72-75
Maj2 Up	+2	76-79
min3 Up	+3	80-83
Maj3 Up	+4	84-87
P4 Up	+5	88-91
Aug4/Dim5 Up	+6	92-95
P5 Up	+7	96-99
min6 Up	+8	100-103
Maj6 Up	+9	104-107
min7 Up	+10	108-111
Maj7 Up	+11	112-115
Octave up	+12	116-123
octave+fifth	+19	124-125
two octaves up	+24	126-127

Scale type

Scale	Steps	CC
Major	7	0-11
Minor	7	12 - 37
Melodic Minor	7	38-58
Harmonic Minor	7	59-78
Double Harmonic Minor	7	79-97
Eastern Pentatonic Minor	5	98-119
Minor Pentatonic	5	120-127

Diatonic Pitch Knobs

Scale Degree	Half-steps	CC
Off	based on scale	0
-2 octaves		1-7
-1 octave		8-11
-7		12-19
-6		20-27
-5		28-35
-4		36-43
-3		44-51
-2		52-59
unison		60-67
+2		68-75
+3		76-83
+4		84-91
+5		92-99
+6		100-107
+7		108-115
+1 octave		116-119
+2 octaves		120-127

Pentatonic Pitch Knobs

Scale Degree	Half-steps	CC
Off	based on scale	0
-2 octaves		1-19
-1 octave		20-27
-5		28-35
-4		36-43
-3		44-51
-2		52-59
unison		60-67
2		68-75
3		76-83
4		84-91
5		92-99
+1 octave		100-107
+2 octaves		108-127

Key

Key	CC
C	0-2
Db	3-11
D	12-25
Eb	26-37
E	38-47
F	48-58
Gb	59-66
G	67-77
Ab	78-87
A	88-97
Bb	98-108
B	109-119
Chromatic	120-127

Time Divisions

Time Division	Rhythmic Value	CC
Off	0	0
Micro range	range of short values	1-14
1/6	16th note triplets	15-25
1/4	16th note	26-36
1/3	8th note triplet	37-47
3/8	dotted 16th note	48-58
1/2	8th note	59-69
5/8	Dotted 16th note tied to 16th note	70-80
2/3	8th note triplet tied to an 8th note triplet	81-91
3/4	dotted 8th note	92-102
5/6	8th note tied to two 16th note triplets	103-113
7/8	Double Dotted 8th note	114-124
1	Quarter Note	125-127