

# D-Lev Quick Reference

Revision : 2024-01-08

<i>monitor output volume</i>	<b>Mon</b> [0:63]	<b>Out</b> [0:1]	<i>global audio &amp; midi output enable (press for ACAL)</i>
<i>volume field null</i>	<b>Vcal</b> [-127:127]	<b>Pcal</b> [-127:127]	<i>pitch field null</i>
<i>voice preset slot to store to (press 2x to store)</i>	<b>stor</b> [0:249]	<b>bank</b> [-3:3]	<i>bank switch (global octave offset)</i>
<i>voice preset slot to load from</i>	<b>load</b> [0:249]	<b>D-LEV</b>	<b>- Main Page -</b>

<i>monitor output volume</i>	<b>Mon</b> [0:63]	<b>Line</b> [0:63]	<i>line output volume</i>
<i>preview level</i>	<b>prev</b> [0:63]	<b>Treb</b> [-31:31]	<i>global treble</i>
<i>oscillator level</i>	<b>osc</b> [0:63]	<b>Bass</b> [-31:31]	<i>global bass</i>
<i>noise level</i>	<b>nois</b> [0:63]	<b>LEVELS</b>	<b>- Levels -</b>

<i>preview level volume field modulation</i>	<b>vmod</b> [-63:63]	<b>pmod</b> [-63:63]	<i>preview level pitch field modulation</i>
<i>preview level</i>	<b>prev</b> [0:63]	<b>mode</b> [0:12]	<i>preview mode (see table)</i>
<i>preview harmonic level (+all; -odd)</i>	<b>harm</b> [-31:31]	<b>tone</b> [-31:31]	<i>preview bass &amp; treble boost / cut (mode[12] treble only)</i>
<i>preview octave offset</i>	<b>oct</b> [-7:7]	<b>PREVIEW</b>	<b>- Pitch Preview -</b>

<i>note-on trigger location in volume field</i>	<b>vloc</b> [0:63]	<b>velo</b> [0:31]	<i>volume hand velocity (0=64; 1-30 variable; 31=127)</i>
<i>cc start location in volume field</i>	<b>cloc</b> [0:63]	<b>cc</b> [-127:31]	<i>midi control change (0=off; neg=7bit; pos=14bit)</i>
<i>midi pitchbend span (+/- notes)</i>	<b>bend</b> [0:127]	<b>chan</b> [-16:16]	<i>midi channel (0=off; neg=2ms gaps)</i>
<i>midi octave offset</i>	<b>oct</b> [-7:7]	<b>MIDI</b>	<b>- MIDI -</b>

<i>knee location in volume field</i>	<b>kloc</b> [0:63]	<b>rise</b> [0:63]	<i>envelope rise time</i>
<i>volume field quiet expansion below knee kloc</i>	<b>knee</b> [0:31]	<b>fall</b> [0:63]	<i>envelope fall time</i>
<i>volume field velocity</i>	<b>velo</b> [0:31]	<b>damp</b> [0:63]	<i>envelope fall &amp; global filter reso modulation (set by dloc)</i>
<i>damp location (MIDI note-off if damp=1-63) in volume field</i>	<b>dloc</b> [0:63]	<b>VOLUME</b>	<b>- Volume Knee &amp; Envelope -</b>

<i>pitch correction rate volume field modulation</i>	<b>vmod</b> [-31:31]	<b>cmov</b> [0:31]	<i>pitch note center rate modulation</i>
<i>pitch correction rate</i>	<b>rate</b> [0:31]	<b>cvol</b> [0:31]	<i>pitch note center volume modulation</i>
<i>pitch correction strength</i>	<b>corr</b> [0:31]	<b>span</b> [0:31]	<i>pitch correction intra-note span</i>
<i>tuner input (see table)</i>	<b>Post</b> [0:3]	<b>PITCH</b>	<b>- Pitch Correction -</b>

<i>noise level volume field modulation (above kloc)</i>	<b>vmod</b> [-63:63]	<b>pmod</b> [-63:63]	<i>noise level pitch field modulation</i>
<i>noise level (route osc thru EQ &amp; filter if 0)</i>	<b>nois</b> [0:63]	<b>treb</b> [-31:31]	<i>noise treble</i>
<i>noise pulse modulation</i>	<b>puls</b> [0:31]	<b>bass</b> [-31:31]	<i>noise bass</i>
<i>noise pulse duty cycle</i>	<b>duty</b> [0:31]	<b>NOISE</b>	<b>- Noise Generator -</b>

<i>filter frequency volume field modulation</i>	<b>vmod</b> [-63:63]	<b>pmod</b> [-63:63]	<i>filter frequency pitch field modulation</i>
<i>filter frequency (Hz, 1/2 half-note steps)</i>	<b>freq</b> [27:7040]	<b>nois</b> [0:63]	<i>filter input level (route osc thru EQ &amp; filter if 0)</i>
<i>filter mode (off, hp, bp, lp, notch; neg=2nd order)</i>	<b>mode</b> [-4:4]	<b>xmix</b> [-31:31]	<i>filter I/O crossfade (0=bypass)</i>
<i>filter resonance (~Q)</i>	<b>reso</b> [0:63]	<b>FILT_NOISE</b>	<b>- Noise Filter -</b>

osc harmonic level volume field modulation  
 osc max harmonic level (0=sine; neg=osc 1&2 sine)  
 osc harmonic content (0=all, 31=odd)  
 osc octave offset (also offsets pitch preview & MIDI)

vmod [-63:63]	pmod [-63:63]
harm [-31:31]	treb [-31:31]
odd [0:31]	bass [-31:31]
oct [-7:7]	0_OSC

osc harmonic level pitch field modulation  
 osc treble  
 osc bass  
**- Oscillator Page 0 -**

osc 1 pitch offset from osc 0 (+/- 1 octave)  
 osc 1 harmonic multiplier (+/- 1 octave)  
 osc frequency modulation (osc 0 => osc 1&2 => osc 0)  
 osc 0, 1&2 mix (pos=crossfade; neg=ring mod)

offs [-127:127]	offs [-127:127]
hmul [-127:127]	hmul [-127:127]
fm [0:31]	sprd [0:63]
xmix [-31:31]	1_OSC

osc 2 pitch offset from osc 0 (+/- 1 octave)  
 osc 2 harmonic multiplier (+/- 1 octave)  
 osc 1&2 +/- pitch offsets from osc 0  
**- Oscillator Page 1 -**

filter frequency volume field modulation  
 filter frequency (Hz, 1/2 half-note steps)  
 filter mode (off, hp, bp, lp, notch; neg=2nd order)  
 filter resonance (~Q)

vmod [-63:63]	pmod [-63:63]
freq [27:7040]	osc [0:63]
mode [-4:4]	xmix [-31:31]
reso [0:63]	FILT_OSC

filter frequency pitch field modulation  
 filter input level  
 filter I/O crossfade (0=bypass)  
**- Oscillator Filter -**

reson 1/delay (~Hz)  
 reson high-pass filter frequency (Hz, 1/2 half-note steps)  
 reson mode (hpf, mono, stereo; neg=series)  
 reson feedback level (and phase)

freq [46:9600]	tap [-63:63]
hpf [27:7040]	harm [-63:63]
mode [-2:2]	xmix [-31:31]
reso [-63:63]	RESON

reson all-pass delay tap  
 reson inharmonicity (0=harmonic)  
 reson I/O crossfade (and phase; 0=bypass)  
**- Inharmonic Resonator -**

form frequency volume field modulation  
 form frequency (Hz, 1/2 half-note steps)  
 form frequency (Hz, 1/2 half-note steps)  
 form resonance (~Q)

vmod [-63:63]	pmod [-63:63]
freq [27:7040]	levl [-63:63]
freq [27:7040]	levl [-63:63]
reso [0:63]	[0:3]_FORM

form frequency pitch field modulation  
 form level (and phase)  
 form level (and phase)  
**- Formant Filter Bank Pages 0 thru 3 -**

volume field calibration / null (ACAL offset)  
 volume field linearity  
 volume field negative offset  
 volume field sensitivity & reversal

Vcal [-127:127]	Drop [0:31]
Lin [-15:15]	Dith [0:7]
Ofs- [0:255]	Ofs+ [0:255]
Sens [-127:127]	V_FIELD

volume field 2<sup>nd</sup> order soft knee  
 volume field dither (power of 2)  
 volume field positive offset  
**- Volume Field -**

pitch field calibration / null (ACAL offset)  
 pitch field linearity  
 pitch field negative offset  
 pitch field sensitivity & reversal

Pcal [-127:127]	Lift [0:31]
Lin [-15:15]	Dith [0:7]
Ofs- [0:255]	Ofs+ [0:255]
Sens [-127:127]	P_FIELD

pitch near-field 2<sup>nd</sup> order ramp-up  
 pitch field dither (power of 2)  
 pitch field positive offset  
**- Pitch Field -**

tuner led brightness (0=off)  
 display lcd brightness (0=off)  
 tuner pitch circle brightness quantization  
 tuner input (see table)

LED [0:31]	Cent [-99:99]
LCD [0:31]	Note [-11:11]
Quant [0:4]	Oct [-15:15]
Post [0:3]	DISPLAY

global pitch frequency offset (note cents)  
 tuner note offset  
 tuner octave offset  
**- LED Tuner & LCD Display -**

ACAL wait time (1/10 seconds)  
 pitch & volume fields swap (normal, volume, pitch, swap)  
 system profile slot to store to (press 2x to store)  
 system profile slot to load from

Wait [0:99]	Auto [0:249]
P<>V [0:3]	50Hz [0:1]
Stor [0:5]	Erev [0:1]
Load [0:5]	SYSTEM

sculpture mode auto acal & preset sequence length  
 hum filter mains frequency (0=60Hz, 1=50Hz)  
 encoder rotation reverse (0=normal, 1=reverse)  
**- System Settings -**

mode	function	order
-4	notch	2
-3	low-pass	2
-2	band-pass	2
-1	high-pass	2
0	bypass	n/a
1	high-pass	4
2	band-pass	4
3	low-pass	4
4	notch	4

*Multi-mode filter mode knobs.*

mode	I/O mix
-2	Series stereo
-1	Series mono
0	Parallel high pass filter
1	Parallel mono
2	Parallel stereo

*Inharmonic Resonator mode knob.*

cc	Control
+/- 1	Modulation Wheel
+/- 2	Breath Controller
+/- 4	Foot Pedal
+/- 7	Volume
+/- 8	Balance
+/- 10	Pan
+/- 11	Expression
-71	Filter Resonance
-74	Filter Frequency
-91	Reverb
-92	Tremolo
-93	Chorus
-94	Detune
-95	Phaser

*Some MIDI cc values (0=off; pos=14bit; neg=7bit).*

mode	Left Synth	Right Synth	Left Preview	Right Preview	4 <sup>th</sup> Osc	Pitch Correct	Hard Quantize
0	✓	✓			✓	✓	
1	✓			✓		✓	
2	✓	✓	✓	✓		✓	
3			✓	✓		✓	
4	✓	✓			✓		
5	✓			✓			
6	✓	✓	✓	✓			
7			✓	✓			
8	✓	✓			✓		✓
9	✓			✓			✓
10	✓	✓	✓	✓			✓
11			✓	✓			✓
12	✓	✓			DC		

*Pitch preview mode knob.*

Post	Volume	Pitch
0	pre	pre
1	pre	post
2	post	pre
3	post	post

*Display Post knob.*

½ Steps	C	A	Ratio	Interval	offs / hmul
0	C	A	1	unison	0
1	C#	A#	1.0595	minor second	35
2	D	B	1.1225	major second	44
3	D#	C	1.1892	minor third	51
4	E	C#	1.2599	major third	56
5	F	D	1.3348	perfect fourth	60
6	F#	D#	1.4142	diminished fifth	64
7	G	E	1.4983	perfect fifth	68
8	G#	F	1.5874	minor sixth	72
9	A	F#	1.6818	major sixth	77
10	A#	G	1.7818	minor seventh	84
11	B	G#	1.8877	major seventh	93
12	C	A	2	octave	127

*Musical offs and hmul knob values.*