# lacrima versio

## _travelers guide
## _for crying in deep space

| 3 | 3 | 7 |
|---|---|---|
| drive spots | filter shapes | knobs · 2 switches · hit |

[ hit ] press  [ hit ] hold  › then  noon = 12 o'clock  numbers = the numbered panel

envelope-followed filter + drive · the devil's autowah · stereo chorus · a free firmware for any versio

← back to the versio starsystem

cyan = hold

## 01 what it is — lv_01

| | |
|---|---|
| an autowah | envelope follower, a screaming state-variable filter, drive, stereo chorus and audio-rate mod |
| in 1 in 2 | stereo in |
| out 1 out 2 | stereo out |
| every knob | an offset added to its cv jack, 0 – 5 V |
| swap in | free on any versio · how to swap · video |

## 02 the filter — lv_02 · knobs 3 · 4 · 5

| | |
|---|---|
| 3 [ l/b/h ] | morphs lowpass → bandpass → highpass |
| 4 [ freq ] | base cutoff |
| 5 [ q ] | resonance · enough to self-oscillate |

## 10 first flight — lv_10 · the classic wah

1. a synth line, drum loop or recording into in 1 · out 1 out 2 to your mixer
2. 2 [ sat ] 4 [ freq ] 5 [ q ] 7 [ mod ] min
3. 1 [ blend ] noon · 6 [ env ] max
4. raise q until the filter talks
5. add sat · try pre, bet, aft
6. xyz i or ii for width

## 03 envelope — lv_03 · knob 6 · fig.01

| | |
|---|---|
| 6 [ env ] | how far the envelope moves the cutoff · noon none |
| right of noon | louder input opens the filter |
| left of noon | louder input closes it |
| [ hit ] | fires the envelope by hand |

## __fig.01 : env — knob 6 · bipolar




## 04 blend · sat · mod — lv_04 · knobs 1 · 2 · 7

| | |
|---|---|
| 1 [ blend ] | dry left · wet right · chorus ignores blend |
| 2 [ sat ] | saturation · where it sits is set by abc |
| 7 [ mod ] | audio-rate modulation · top third adds octaves |

## __fig.04 : signal path — as far as the manual says

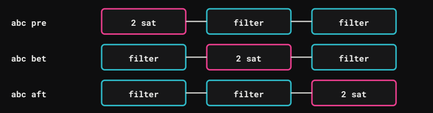



the envelope (6 env, hit) moves the cutoff · 7 mod adds audio-rate wobble

## 05 switches — lv_05 · abc · xyz

| | |
|---|---|
| abc left | [ pre ] drive at the input |
| abc mid | [ bet ] drive between the two filters |
| abc right | [ aft ] drive after the filters |
| xyz left | [ 0 ] chorus off |
| xyz mid | [ i ] slow chorus |
| xyz right | [ ii ] faster chorus |

## __fig.02 : where the drive goes — abc · pre · bet · aft




## 07 hit — lv_07 · fsu = hit

| | |
|---|---|
| [ hit ] | trigger the envelope follower |
| fsu jack | gate in · above 2 V · the manual doesn't say more |
| boot | cyan · yellow · yellow · magenta = lacrima is loaded |

## 08 two patches — lv_08 · from the manual · abc · xyz

**classic wah** — any · i / ii
a dynamic source in · sat, freq, q, mod min · blend noon · env max · q until it talks · then sat and abc for flavour

**self-oscillating drums** — pre · 0
trigger patterns into in 1 (+ in 2) · freq + mod min · q, sat, env max · each trigger pings a ringing sweep · tune with freq + env

## __fig.06 : what the LEDs say — at boot

| | |
|---|---|
| boot | lacrima is loaded |

## __fig.03 : the panel — numbers match the legend




1. blend · dry ↔ wet
2. sat · drive
3. l/b/h · lp → bp → hp
4. freq · cutoff
5. q · self-oscillates
6. env · close ← · → open
7. mod · audio-rate · top = 8va

abc drive · pre · bet · aft

xyz chorus · 0 · i · ii

fsu hit · fire the envelope

in in 1 / 2 · stereo in

out out 1 / 2 · stereo out

## 09 specs — lv_09

| | |
|---|---|
| cv in | 0 – 5 V |
| fsu gate | above 2 V |
| audio in | clips near 16 V peak to peak |
| size | 10 hp · 1.5 in deep |
| power | 70 mA +12 V · 70 mA –12 V · no 5 V |