morbus legio

_travelers guide
_for catching cosmic static

2	3	6
switches · 3 ways	cv inputs	hp

[frequency] press [frequency] hold › then noon = 12 o'clock tags = the panel drawing

noise generator + distortion · harsh, colour, folding and chorus · process or blend outside audio

← back to the legio starsystem

= hold

01 what it is

mo_01

noise	from sparse lo-fi crackle to harsh walls
processor	the same chain distorts outside audio
blend	noise and input together
in L R	audio in · L feeds R if alone
out L R	stereo out, up to 16 V peak to peak
platform	a legio firmware · other firmwares

02 frequency

mo_02 · enc

[enc] turn	noise frequency · down = sparse, up = harsh
[enc] tap	noise on / off
[enc] tap again	with audio in: noise mixes with the input
enc jack	freq jack · –2 to +5 V

10 first flight

mo_10 · the manual's tutorial

1. out to the mixer
2. 1 + 2 min · both switches down
3. turn enc
4. raise harsh + color · try wtf and chorus
5. tap enc off · a saw into in

03 harsh · color

mo_03 · knobs 1 + 2

1 [harsh]	noise sample rate · with input: full-wave rectify
2 [color]	noise colour + width · with input: soft clip

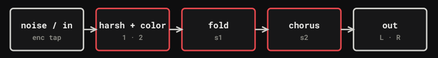
04 fold · chorus

mo_04 · s1 · s2 · top → bottom

s1	wtf heavy · rough moderate · none
s2 chorus	II faster · I slow · 0 off
both	act on noise and input

__fig.01 : signal path

in → out



as the manual describes it

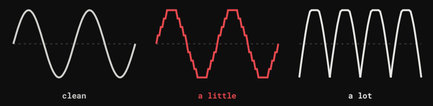
05 jacks

mo_05 · trig · cv · audio

trig mute	silences noise + input while high · near +1.6 V
in L R	audio in · L feeds R
out L R	up to 16 V peak to peak
cv	frequency –2 to +5 V · harsh + color 0 – 5 V

__fig.02 : transfer

clean → heavy



08 patch ideas

mo_08 · the manual

noise — none · 0
turn frequency for pitch

distortion — any
tap noise off, audio in, harsh + color as drive

blend — any
tap again to mix noise with the input

glitch — any
a square wave into mute

__fig.03 : the panel

numbers match the legend



enc	frequency · noise frequency
1	harsh · noise sample rate
2	color · noise colour + width
s1	fold · wtf · rough · none
s2	chorus · II · I · 0
trig	mute · silences noise + input while high
cv	freq · 1 · 2 · freq –2…+5 V · others 0–…
in	in L / R · L feeds R if alone
out	out L / R · stereo out

09 specs

mo_09

size	6 hp · 1.5 in deep
power	140 mA +12 V · 22 mA –12 V
cv in	0 – 5 V · frequency –2 to +5 V
trig	rising edge near +1.6 V
boot LEDs	white / red

design homage to the house of x / powers of x data pages — designed by tom muller with jonathan hickman · panel drawing after the noise engineering legio overlay template
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