ovis legio

_travelers guide
_for climbing the endless staircase

2	3	6
switches · 3 ways	cv inputs	hp

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

granular pitch shifter · octave-spaced layers crossfaded into endless shepard glides

← back to the legio starsystem

= hold

01 what it is

ov_01

shepard	layers an octave apart, crossfaded so the sweep never ends
granular	grains of the input, 0 – 16 at a time
freeze	a gate holds every layer
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 pitch

ov_02 · enc

[enc] turn	octave phase of the endless sweep · wraps every octave
enc jack	pitch jack · –2 to +5 V · an lfo here = endless glide

10 first flight

ov_10 · the manual's tutorial

1. a free-running oscillator into in
2. an lfo into enc cv
3. attenuate the lfo to taste
4. long 2, high 1, 4 layers
5. gate trig to freeze

03 count · length

ov_03 · knobs 1 + 2

1 [count]	grains, 0 – 16
2 [length]	grain window size

04 fade · layers

ov_04 · s1 · s2 · top → bottom

s1 fade	grain crossfade · higher = more random
s2 layers	4 · 3 · 2 octave layers

__fig.01 : signal path

in → out



as the manual describes it

05 jacks

ov_05 · trig · cv · audio

trig hit	freezes all layers 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	pitch –2 to +5 V · count + length 0 – 5 V

__fig.02 : shepard layers

octaves fade in and out



08 patch ideas

ov_08 · the manual

endless rise — 4 layers
static wave in, lfo on pitch

loops — any
drum loops like lower count + length

freeze — any
gates into hit hold a moment

__fig.03 : the panel

numbers match the legend



enc	pitch · octave phase of the endless sweep
1	count · grains, 0 – 16
2	length · grain window size
s1	fade · up · mid · down
s2	layers · 4 · 3 · 2
trig	hit · freezes all layers while high
cv	pitch · 1 · 2 · pitch –2…+5 V · others …
in	in L / R · L feeds R if alone
out	out L / R · stereo out

09 specs

ov_09

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

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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