plus legio

_travelers guide
_for adding stars to the sky

2 switches · 3 ways	3 cv inputs	6 hp

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

additive voice · simple adsr · envelope timbre mod and a chorus lfo

← back to the legio starsystem

= hold

01 what it is — pl_01

additive	a stack of oscillators, level set by timbre
envelope	adsr from one time knob
movement	envelope timbre mod + chorus lfo
in L R	pm · 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 — pl_02 · enc

[enc] turn	fine tune
[enc] press + turn	coarse tune
enc jack	pitch jack · –2 to +5 V

10 first flight — pl_10 · the manual's tutorial

1. a pitch sequence into enc
2. gates into trig
3. s1 + s2 off
4. set 1 and 2
5. mod + and try the lfo

03 time · timbre — pl_03 · knobs 1 + 2

1 [time]	relative adsr segment times · also lfo amount
2 [timbre]	additive oscillator levels

04 mod · lfo — pl_04 · s1 · s2 · top → bottom

s1 +	envelope pushes timbre up · needs timbre below max
s1 off	no envelope mod
s1 –	envelope pulls timbre down · needs timbre above min
s2 lfo	env follows the adsr · on always · off

__fig.01 : signal path — in → out

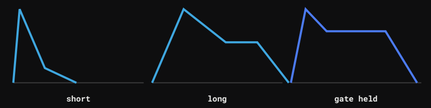


as the manual describes it

05 jacks — pl_05 · trig · cv · audio

trig hit	gate / trigger for the adsr · near +1.6 V
in pm L R	phase mod in · L feeds R
out L R	up to 16 V peak to peak
cv	pitch –2 to +5 V · time + timbre 0 – 5 V

__fig.02 : envelope — time knob scales every stage



08 patch ideas — pl_08 · the manual

plain voice — off · off
time and timbre to taste

moving — + · env
the envelope opens timbre, lfo follows

more range — any
another oscillator into pm

__fig.03 : the panel — numbers match the legend



enc	pitch · fine tune
1	time · relative adsr segment times
2	timbre · additive oscillator levels
s1	mod · + · off · –
s2	lfo · env · on · off
trig	hit · gate / trigger for the adsr
cv	pitch · 1 · 2 · pitch –2…+5 V · others …
in	pm L / R · L feeds R if alone
out	out L / R · stereo out

09 specs — pl_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	blue / blue

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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