ampla legio

_travelers guide
_for opening the airlock

2	3	6
switches · 3 ways	cv inputs	hp

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

stereo multimode filter + vca · vactrol-inspired envelope · a gate opens it

← back to the legio starsystem

= hold

01 what it is

am_01

filter-gate	a stereo vcf and vca opened by its own envelope
silence	no gate at hit = nothing passes
gate width	the envelope sustains while the gate is high
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 freq

am_02 · enc

[enc] turn	filter starting frequency
[enc] press	fires the envelope by hand
enc jack	freq jack · −2 to +5 V · mult a 1 V/oct sequence here to track

10 first flight

am_10 · the manual's tutorial

1. source into in · out to the mixer
2. 1 [a/d] and 2 [time] at minimum
3. s1 calm · s2 lp
4. trigger or gate into trig
5. turn 2 and enc

03 a/d · time

am_03 · knobs 1 + 2

1 [a/d]	attack against decay inside the envelope time
2 [time]	total attack + decay time
both min	a snappy, classic low-pass-gate pluck

04 res · mode

am_04 · s1 · s2 · top → bottom

s1 res	howl · bite · calm
	calm is gentle · bite and howl get aggressive
s2 mode	hp · bp · lp

__fig.01 : signal path

in → out



as the manual describes it

05 jacks

am_05 · trig · cv · audio

trig hit	gate in · rising edge near +1.6 V · sustains while high
in L R	audio in · L feeds R if alone
out L R	up to 16 V peak to peak
cv	freq −2 to +5 V · a/d + time 0 – 5 V

__fig.02 : envelope

time knob scales every stage



08 patch ideas

am_08 · the manual

classic lpg — calm · lp
a/d + time at minimum · triggers into hit

more bite — bite or howl
same patch, more resonance attitude

tracking — any
mult the pitch sequence to freq so the gate follows the oscillator

__fig.03 : the panel

numbers match the legend



- enc **freq** · filter starting frequency
- 1 **a/d** · attack against decay inside the envelo…
- 2 **time** · total attack + decay time
- s1 **res** · howl · bite · calm
- s2 **mode** · hp · bp · lp
- trig **hit** · gate in
- 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

am_09

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

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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