chasma legio

_travelers guide
_for crossing the chasm

2	3	6
switches · 3 ways	cv inputs	hp

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

mid/side dynamics · compression and limiting per side · two kinds of distortion

← back to the legio starsystem

= hold

01 what it is

ch_01

mid / side	the centre and the edges of the stereo field, treated separately
per side	a compressor and a limiter each
drive	saturation or zero-crossing pop
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 dist

ch_02 · enc

[enc] turn right	saturation
[enc] turn left	zero-crossing pop distortion
[enc] tap	back to no distortion
enc jack	dist jack · –2 to +5 V

10 first flight

ch_10 · the manual's tutorial

1. a wide stereo source into in
2. tap enc (no distortion) · knobs + switches at minimum
3. sweep 2 and 1
4. add mid and side comp
5. turn enc both ways

03 side limit · mid limit

ch_03 · knobs 1 + 2

1 [side limit]	gain into the side limiter
2 [mid limit]	gain into the mid limiter
balance	trade the two to widen or narrow the image

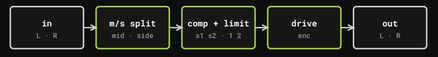
04 mid comp · side comp

ch_04 · s1 · s2 · top → bottom

s1 mid comp	three levels · up = more
s2 side comp	three levels · up = more

__fig.01 : signal path

in → out



as the manual describes it

05 jacks

ch_05 · trig · cv · audio

trig fsu	gate in · rising edge near +1.6 V · tempo-synced distortion
in L R	audio in · L feeds R if alone
out L R	up to 16 V peak to peak
cv	dist –2 to +5 V · side limit + mid limit 0 – 5 V

__fig.02 : mid · side

centre and edges apart



08 patch ideas

ch_08 · the manual

stereo shaping — any
a drum loop through reverb · ride mid and side limit

glue — some · some
a little compression on both

pumping drive — any
a rhythmic gate into fsu

__fig.03 : the panel

numbers match the legend



enc	dist · saturation
1	side limit · gain into the side limiter
2	mid limit · gain into the mid limiter
s1	mid comp · more · some · least
s2	side comp · more · some · least
trig	fsu · gate in
cv	dist · 1 · 2 · dist –2…+5 V · others 0–…
in	in L / R · L feeds R if alone
out	out L / R · stereo out

09 specs

ch_09

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