fala versio

_travelers guide
_for speaking to aliens

24	3	7
bandpass filters	formants	knobs · 2 switches · tap

[tap] press [tap] hold › then noon = 12 o'clock numbers = the numbered panel

stereo formant filter · up to 24 bandpass filters · clockable lfo · a free firmware for any versio

← back to the versio starsystem

purple = hold

01 what it is

fv_01

a formant filter	stereo vowel filter · up to 24 bandpass filters, a wavefolder before, saturation after
name	portuguese for "speak"
in 1	audio in · a saw or other rich wave works best
out 1 out 2	stereo out
swap in	free on any versio · how to swap · video

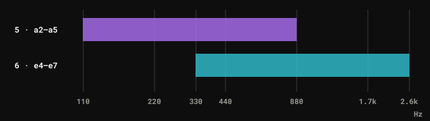
02 the formants

fv_02 · knobs 5 · 6 · 3 · fig.01

5 [a2–a5]	formant a · 110 – 880 Hz, three octaves
6 [e4–e7]	formant e · 330 – 2637 Hz · silent with abc on a
3 [q]	resonance of every filter at once
musical	ranges follow notes, not voices, so each knob spans whole octaves

__fig.01 : formant ranges

whole octaves · knobs 5 + 6



10 first flight

fv_10 · the manual's first patch

1. a saw into in 1 · out 1 out 2 to your mixer
2. 1 [fold] + 7 [saturation] min · 4 [index] noon
3. abc ae (mid)
4. sweep 5 [a2–a5] and 6 [e4–e7] to talk
5. raise 3 [q] for sharper vowels
6. then index for movement · fold and saturation for grit

03 fold · saturate

fv_03 · knobs 1 + 7

1 [fold]	wavefolding before the filters
7 [saturation]	drive after the filters
levels	a built-in vca keeps the volume even as you move things

04 lfo

fv_04 · knobs 2 + 4 · fig.02

2 [speed]	lfo rate
clocked	speed becomes /4 /3 /2 1 ×2 ×3 ×4 of the clock
4 [index]	stereo lfo depth on the filters · noon off
left · right	left smooth random · right sine

__fig.02 : speed when clocked

knob 2 · seven ratios



__fig.04 : signal path

as the manual describes it



the stereo lfo (2 speed · 4 index) moves the formants

05 switches

fv_05 · abc · xyz

abc left	[a] formant a only
abc mid	[ae] formants a + e
abc right	[ae3] adds a third, worked out from a and e
xyz	[i] · [ii] · [iv] one, two or four parallel sets · chorus-like
all in	ae3 + iv = 24 bandpass filters, 12 saturators

07 tap · clock

fv_07 · fsu = tap

[tap]	tap a tempo for the lfo
fsu jack	clock or trigger pattern in
[tap] few s	forget the tempo · lfo runs free again
boot	cyan · magenta · cyan · magenta = fala is loaded

08 five patches

fv_08 · from the manual · abc · xyz

basic filter — ae · any
fold + saturation min · index noon · a saw into in 1 · move a, e and q

animated — any
index up · speed, or tap a tempo

grimy — any
try the switches · raise fold and saturation

rhythmic sync — any
a drum loop in · a copy of its clock into the tap jack

feedback stereo — any
mono source into in 1 · mult out 1 back into in 2 · listen to both outs (after starthief)

__fig.06 : what the LEDs say

at boot

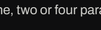
boot  fala is loaded

__fig.03 : the panel

numbers match the legend



1 fold · wavefolder in
2 speed · lfo rate · or ratio
3 q · resonance
4 index · random ← · → sine
5 a2–a5 · 110 – 880 Hz
6 e4–e7 · 330 – 2637 Hz
7 saturation · drive out
abc formants · a · ae · ae3
xyz sets · i · ii · iv
fsu tap · tap · clock in
in in 1 · audio in
out out 1 / 2 · stereo out

09 specs

fv_09

cv in	0 – 5 V
size	10 hp · 1.5 in deep
power	version a 70 mA +12 V · 70 mA –12 V · version b 125 mA · 10 mA · no 5 V