OrGigs FM-1 at a glance

A three-manual organ and a MIDI router for the M-VAVE FM-1.

package FM-1_674110
GPL-3.0-only

Sound	84 free-running tone generators (C1–B7): every key sounds, no voice stealing. 8 models in 3 departments: tonewheel and three combo organs, baroque and cathedral pipe organs, musette and bandoneon reeds
Manuals	Upper (9 drawbars), Lower (9 drawbars), Pedal (4 stops). Coupler II/I, split and auto-pedal by MIDI zones
Effects	Per manual: drive, scanner vibrato / chorus or tremulant, rotary on / off, delay and reverb sends. Shared: percussion, two-rotor rotary, stereo ping-pong delay (to 1 s), 4 reverbs (spring, stage, hall, cathedral), an insert slot (7 effects), master EQ and compressor
Memory	16 performance setups (the whole instrument, one per white key); a drawbar list of 75 registrations + 16 user slots; all kept after power-off; backup over USB
MIDI	3 zones (in / out channel, key range, transpose, velocity, filters), cloner, 9-channel harmonic mapper, chord memory, a 16-channel mixer (CC 7), Yamaha SEQTRAK control (YST)

1 Three rules on every screen

`SELECT`	the manual (and its MIDI zone): `UPPER` `LOWER` `PEDAL`	`ALGORITHM`	the model 1–8
`PRESETS`	the drawbar list of that manual	`MASTER`	the output volume

SEL is the knobs' push. The FM-1's knobs can't be pressed, so a held `SEL` gives every knob and most buttons a second job.

2 The buttons on the drawbar screen

FX the FX screen; again: back SEL: INSERT, again MASTER	**SEL** held: white keys recall the setups; shows DSP load and battery	**ENV** knobs = drawbars 1–4	**LFO** knobs = drawbars 5–8	**EDIT** knobs = drawbars 1, 3, 4, 9	**GLO** the MIDI zones; again: the next screen SEL: the panel lights
HOME the MIDI mixer; again: back SEL: panic, all notes off	**SAVE** tap: drawbars to a user slot. Hold + white key: store the setup	**ARP** vibrato / chorus on / off (tremulant on pipe, reed)	**SEQ** coupler II/I on / off	**PLAY** rotary brake	**REC** rotary slow ↔ fast SEL: the manual through the rotary or past it

Top row and bottom row as on the panel. Below the dashed line: with `SEL` held. `OCT−` `OCT+`: the keys' octave, −2 … +3.

3 Handy combinations

`SEL` + white key	recall performance setup 1–16 (F3 to G5)
`SAVE` held + white key	store the whole instrument there
`SEL` + `HOME`	panic: all notes off, inside and on all 16 channels
`SEL` + `GLO`	panel lights: keys and buttons OFF / DIM / FULL; `SEQ` there: backup
`SEL` + `KNOB 1–4`	the screen's second row (shared values on FX)
`SEL` + `FX`	the insert effect; again: the master EQ and compressor
any key or button	skips the welcome screen

4 The FX screen `FX`

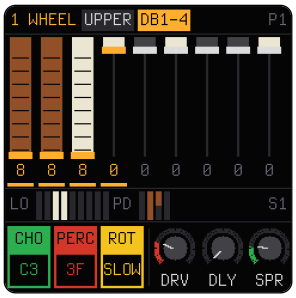
KNOB	TURN: THE MANUAL'S	SEL + TURN: SHARED
KNOB 1	drive	percussion / chiff / detune
KNOB 2	vibrato & chorus or tremulant	delay feedback
KNOB 3	delay send	delay time 20–1000 ms
KNOB 4	reverb send	reverb room

A row per manual; `ENV` `LFO` `ARP` choose upper, lower, pedal. `SEQ`: the manual through the rotary or past it.

INSERT (`SEL` + `FX`): one effect on one manual, chorus, wah-wah (CC 1 its pedal), auto-wah, flanger, phaser, ring mod, amp. `EDIT` the next, `SEQ` on / off, `ENV` `LFO` `ARP` its manual; `KNOB 1–4` its values 1–4, `SEL` + knobs 5–8. **MASTER** (`SEL` + `FX` again): `ENV` the EQ, `LFO` the compressor on / off; `EDIT`: the knobs hold the EQ (low, mid, high; `SEL`: their frequencies) or the compressor (threshold, ratio, attack, release; `SEL` + `KNOB 1` make-up).

The mixer (`HOME` on the drawbars): 16 knobs, one per MIDI channel, send CC 7 at once. `ENV` `LFO` `ARP` `SEQ` choose the row of four channels. Each setup keeps its own volumes.

5 Reading the drawbar screen



1. **Top bar:** model number and short name (`1 WHEEL`), the manual (`UPPER`), the drawbars the knobs hold (`DB1-4`), the preset (`P1`; `P1*` = changed since), the battery (red below 20 %; a bolt: charging on a computer or the SEQTRAK).
2. **Drawbars** 0–8, coloured by family. Amber marks: the four the knobs move now.
3. **Mini-bars:** the other two manuals, `II/I` when coupled, the setup (`S1`). A change shows its name and value here.
4. **Tabs:** green vibrato (`V1`…`C3`) or tremulant; red percussion (`2F`…`3S`) or the coupler; yellow `ROT`: `SLOW` `FAST` `BRK` or `OFF`.
5. **Knobs:** drive `DRV`, delay send `DLY`, reverb send named by its room (`SPR` `STG` `HAL` `CAT`).

6 The eight models `ALGORITHM`

1	`WHEEL`	Tonewheel Organ: key click, percussion on the upper manual
2	`BRIT`	Brit Combo: bright divider tone
3	`ITALO`	Italo Combo: sixties saw / pulse bite
4	`TOKYO`	Tokyo Combo: rich transistor tone
5	`BAROQ`	Baroque Organ: principals, flutes, reeds, chiff
6	`CATH`	Cathedral Organ: grand speech, sagging wind
7	`MUSET`	Paris Musette: wet three-reed accordion
8	`BANDO`	Tango Bandoneon: tighter, darker reeds

Changing the model keeps the effects and the drawbars; `PRESETS` picks a registration.

7 The 16 factory setups `SEL` + key

1	Tonewheel jazz	9	British hard rock
2	Cathedral	10	Gospel
3	Paris musette	11	Baroque rock ballad
4	Brit Combo	12	60s transistor combo
5	Tonewheel rock	13	Reggae
6	Italo Combo	14	Cathedral trumpet
7	Baroque organ	15	Musette master
8	Tango bandoneon	16	Psychedelic space pad

The white keys F3 … G5 are setups 1–16, left to right.

8 MIDI zones `GLO`

Each manual has a zone: it listens on a MIDI channel (factory 1 upper, 2 lower, 3 pedal), takes the notes in its key range, plays its manual and sends them on to your synths. `GLO` steps through five screens, `SELECT` chooses the zone, `HOME` goes back.

SCREEN	KNOBS	BUTTONS
`ZONE`	in channel · lowest key · transpose · fixed velocity *SEL:* out channel · highest key · octave · BEND	`ENV` VEL · `LFO` CC filter · `EDIT` PC filter · `ARP` INT sound · `SEQ` learn the range *SEL:* EXPR · THRU · USB/TRS · K:FL/K:ZN · AUTO pedal
`CLONE`	channel · its octave	`ENV` on; keys 1–16 switch channels 1–16
`HARMONIC`	first channel · VEL or CC7/CC11	`ENV` on; keys 1–9 switch the nine footages
`CHORD`	—	hold a chord, `LFO` captures it, `ENV` on, `EDIT` clears
`YST`	the SEQTRAK track's cutoff, resonance, attack, decay	`ENV` on; `SELECT` the track, `PRESETS` its sound, `LFO` read again

> **Avoid MIDI loops:** never route the FM-1's output back into the FM-1. For a 5-pin DIN synth behind a MIDI host, switch the zone screen's `SEL` + `EDIT` to `TRS-SAFE`.

OrGigs is at heart a firmware for the M-VAVE SMK-37 Elite, and this is its compact edition. The full version adds your own rotary cabinets, a full mixer, an expression pedal and five pad layouts. Check it out.

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