



auto power off (a.p.o.)

the unit auto powers off when no buttons are pressed for a while, only powering the display to show time.
press sound + bpm to show battery status. press sound + write to manually power off. this ensures that recent modifications to pattern data will survive a loss of power.

sound 1-16

- | | |
|----------------------|---------------------|
| 1. 5.25" floppy disk | 9. bass drum |
| 2. 3.5" drive eject | 10. pc beeper |
| 3. 3.5" floppy disk | 11. hardsync tone |
| 4. keyboard | 12. hardsync noise |
| 5. matrix printer | 13. ring modulation |
| 6. joystick | 14. bass |
| 7. mouse click | 15. glitch fx |
| 8. toggle switch | 16. noise fx |

effect 1-16

- | | |
|-------------------|----------------------|
| 1. aliasing | 9. distort low |
| 2. overdrive | 10. distort high |
| 3. repeat 4 | 11. retrigger |
| 4. repeat 2 | 12. retrigger (fast) |
| 5. lowpass filter | 13. glitch |
| 6. lowpass sweep | 14. glitch (fast) |
| 7. hipass filter | 15. blinds |
| 8. hipass sweep | 16. noise effect |

1. getting started

power-up

insert two fresh AAA batteries. pay attention to plus and minus terminals.

set clock

set time by turning knob A for hours and knob B for minutes. press any key to confirm and exit.

alarm clock

press sound + pattern. set alarm clock by turning A for hours and B for minutes. (disable by turning knob A all the way down.) press any key 1-16 to set pattern for the alarm. to stop alarm press any key.

reset clock

reset the clock by removing the batteries and start over.

2. play

select pattern

hold pattern and press any key from 1-16 to select pattern. blinking led indicates active pattern.

play

press play to start playing. press play again to stop.

sequencer

a pattern consists of 16 steps.

3. making a beat

select sound

hold sound and press any key from 1-16 to select sound.

sounds 1-8 are sampled from computer hardware from the 1980s.

create

press write. rec symbol is lit on screen. enter sound/notes in grid. active steps will be lit. press play to listen to your pattern.

parameter locking

during play, hold write while turning knobs to write sound parameter changes over time. hold any key 1-16 and turn knobs to edit sound parameters on that particular step.

4. effects

while playing, hold FX and press any key 1-16 to punch in effects. hold FX without pressing any key to clear effects. see reference on opposite page.

some effects also work in live mode

when the sequencer is stopped. hold FX and press the corresponding key to activate the effect. press FX briefly to deactivate it.

5. solo play

while playing, hold solo and press any key 1-16 to toggle solo play for the corresponding sound. several sounds can be soloing at the same time.

when the solo button is released, the solo function turns off automatically at the next pattern boundary.

the solo function can also be turned off manually by disabling solo play for all sounds.

6. tempo and swing

press bpm to switch tempo. the bpm will be displayed in the upper right corner of the screen. HIP HOP (80 bpm)
DISCO (120 bpm)
TECHNO (140 bpm)
hold bpm and turn A to adjust the swing. hold bpm and turn B to fine-tune tempo from 60 to 240 bpm.

7. volume

hold bpm and press any key 1-16 to adjust master volume.

8. live record

while playing, except in write mode, hold write and press any key 1-16 to punch in notes. notes will be quantized according to the current swing setting.

9. step multiplier

in write mode, press and hold any key 1-16 to select step, and press bpm to insert a re-trig on that step. press bpm multiple times to switch between 2, 3, 4, 6 or 8 multiplier.

10. making a song (pattern chaining)

copy pattern

hold write + pattern and press 1-16 to paste the active pattern to the corresponding new slot.

clear pattern

hold solo and press pattern to clear the active pattern.

chain pattern

hold pattern and press a sequence

of keys 1-16 to create a chain of up to 128 patterns. one pattern can be selected multiple times. example: 1, 1, 1, 4 plays pattern 1 three times then moves on to pattern 4. the entire sequence then repeats.

11. sync multiple units

connect a standard stereo audio cable between the units. the master unit will control the tempo of the slave unit. hold solo and press bpm on master unit to toggle sync modes. press repeatedly to toggle between different modes displayed in the upper right corner of the screen. press play on slave unit to wait for master clock sync. press play on master to start.

sync modes

there are 5 sync modes. default mode is SY0. when sync is used the signal will be split between audio (right) and sync (left).

sync scenarios

example A

chain: PO-24 → PO-20 → PO-14
setting: SY1 SY5 SY4

example B

chain: external → PO-24
setting: volca SY2
iphone
computer
synckontrol

example C

chain: ext. → PO-24 → PO-16
setting: SY3 SY4

example D

chain: PO-24 → ext. (split cable)
setting: SY1

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