



thank you for choosing the OP-Z multimedia sequencer and synthesizer. we are proud to present to you this portable, powerful and playful music making device. we hope it will inspire your creativity for many years, and become a trusted companion for both audio and visual expression. enjoy OP-Z, the dream machine.

make sure to read this manual carefully to get the most out of your new OP-Z. once you've become acquainted with its operation, use it as a reference guide. for even deeper understanding visit the ems site and take a lesson, check out the latest videos and sign up for a workshop.

user guide

click on the section you
want to read more about

- 1 hardware overview
 - 1.1 power on / off
 - 1.2 charging the battery
 - 1.3 inputs and outputs

- 2 interface overview
 - 2.1 index buttons
 - 2.2 color dials
 - 2.3 parameter leds
 - 2.4 parameter pages
 - 2.5 track select button
 - 2.6 tracks / patterns / step buttons
 - 2.7 record button
 - 2.8 transport buttons
 - 2.9 musical keyboard
 - 2.10 transpose buttons
 - 2.11 shift button
 - 2.12 pitch bend
 - 2.13 microphone
 - 2.14 speaker

- 3 general operation
 - 3.1 playing notes
 - 3.2 playback
 - 3.3 editing
 - 3.4 editing operations
 - 3.5 recording
 - 3.6 how to record

- 11 tracks
 - 11.1 introduction
 - 11.2 overview
 - 11.3 audio tracks 1 – 4 (drum group)
 - 11.4 audio tracks 5 – 8 (synth group)
 - 11.5 control tracks
 - 11.6 fx
 - 11.7 tape
 - 11.8 master
 - 11.9 performance
 - 11.10 module
 - 11.11 lights
 - 11.12 motion

- 12 arp
 - 12.1 introduction
 - 12.2 parameters

- 13 tape
 - 13.1 introduction
 - 13.2 parameters
 - 13.3 controls

- 14 master
 - 14.1 introduction
 - 14.2 parameters
 - 14.3 transpose tracks
 - 14.4 chord progressions

4	parameter pages
4.1	introduction
4.2	toggle pages
4.3	reference chart
5	track
5.1	introduction
5.2	parameters
5.3	step count
5.4	step length
5.5	offset notes
5.6	select plug / preset
5.7	randomize preset
5.8	store preset
5.9	kill track notes
5.10	link / unlink tracks
6	step components
6.1	introduction
6.2	using step components
6.3	clear step components
6.4	reference chart
6.5	step components + app
7	project
7.1	introduction
7.2	select project
7.3	select pattern
7.4	chain patterns
7.5	copy pattern
7.6	copy settings
7.7	copy track
7.8	copy project
7.9	clear pattern
7.10	bounce patter
7.11	snapshot
7.12	saving

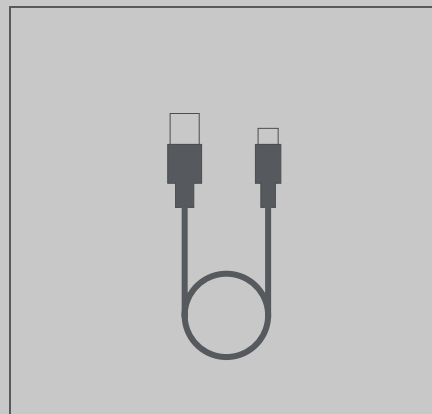
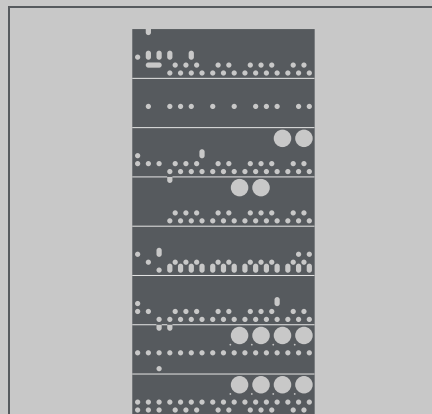
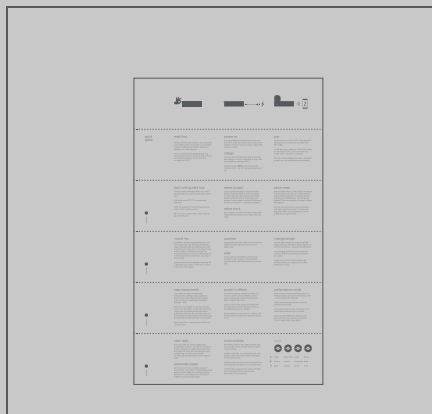
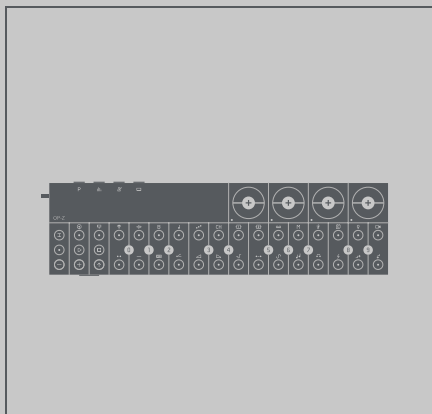
15	lights
15.1	introduction
15.2	operation
15.3	parameters
15.4	setup
15.5	configure dmx
16	punch-in effects
16.1	introduction
16.2	using punch-in effects
16.3	reference chart
16.4	punch-in effects + app
17	microphone
17.1	microphone mode
17.2	headset mode
18	usb
18.1	introduction
18.2	supported devices
19	midi
19.1	introduction
19.2	external clock
19.3	midi config shortcuts
19.4	midi config via app
19.5	incoming midi table
20	disk modes
20.1	introduction
20.2	content mode
20.3	import sounds
20.4	backup content
20.5	restore content
20.6	upgrade mode
20.7	software update
20.8	factory reset

7.13	project + app
8	mixer
8.1	introduction
8.2	parameters
8.3	mute track
8.4	mute groups
8.5	mute audio
8.6	mixer + app
9	tempo
9.1	introduction
9.2	parameters
9.3	set tempo
9.4	tempo nudge
9.5	lock tempo
9.6	adjust swing
9.7	using the metronome
9.8	external sync
10	screen
10.1	introduction

21	app
21.1	introduction
21.2	pairing with OP-Z
21.3	navigating the app
21.4	screen
21.5	configurator
21.6	photomatic
21.7	motion
21.8	devices
21.9	midi setup
21.10	guide
21.11	video out
21.12	file transfer
22	reference
22.1	synth engines
22.2	fx engines

what's in the box

check that the following items are included when you open the box



OP-Z unit

OP-Z quick guide

OP-Z cheat sheets

usb-c cable

use this to get started creating your first pattern, and as a reference guide for buttons, parameters and step components.

overlays to accompany the quick guide.

standard usb to usb-c cable for midi, for data transfer between OP-Z and computer, and for charging the OP-Z internal battery.

credit

thank you so much!

content

ally mobbs
cuckoo
eran hilleli
redmount studios
sepa
uvi's sound design team / uvi.net

beta testing

alvaro villalobos
brandon guerra
bruno kramm
cuckoo
david najarian
dimitri
eran hilleli
hot science
jean-louis huhta
jennifer hernandez
matt donald
matt milligan

beta testing

mike waring
matthew williams
nick martin
patrik berger
steezo
thomas s white
tim harrington
timur kuyanov

special thanks

keijiro takahashi

warnings, warranty & fcc

warnings & important notes

before connecting this unit to other devices, turn off the power to all units. this will help prevent malfunctions and/or damage to speakers or other devices. if you need to connect/disconnect wires during use, always make sure to connect the cable to the OP-Z first, never connect the 3.5mm plus going from the OP-Z's

warranty and return policy

the OP-Z is fully factory tested and comes with a 12 month (from purchase date) warranty. this does not include malfunction due to misuse of the device, such as being dropped, crushed or used in an application of inappropriate voltages to the device's connectors or improperly designed or executed modifications. in particular,

fcc regulatory compliance

warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

note: this equipment has been tested and found to comply with the limits for a class b digital device, pursuant to

ised regulatory compliance

this device contains licence-exempt transmitters that comply with innovation, science and economic development canada's licence-exempt rss(s).

operation is subject to the following two conditions:

input or output to a mic input on a sound card with phantom power active, this could destroy the ports on the OP-Z. be sure to charge the unit using only 5v usb power, such as that from the usb ports of a computer, or by using a dedicated usb charger. make sure you always have the OP-Z placed so it is level and sure to remain stable. use your OP-Z where the ambient temperature is between 10° and 35° C (50° and 95° F) and the relative humidity is between 0 and 95%RH. never install or use the unit in any of the following locations:

- humid environments or baths and washrooms.
- safety-critical applications.
- nuclear facilities and weapons systems.
- aerospace applications or environments for automotive installations.

caution

risk of explosion if the battery is replaced by an incorrect type.

store small parts out of the reach of children and infants. if accidentally swallowed, contact a doctor immediately.

you are the sole responsible for damage caused by a charging method other than 5V usb power. the general warranty policy does not cover esd (static discharge) damaged products due to improper handling.

the warranty does not cover shipping charges.

make sure to read the terms & conditions [here](#).

part 15 of the fcc rules. these limits are designed to provide reasonable protection against harmful interference in a residential installation. this equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. however, there is no guarantee that interference will not occur in a particular installation.

if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient or relocate the receiving antenna.
- increase the separation between the equipment and receiver.
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- consult the dealer or an experienced radio/TV technician for help.

this equipment complies with fcc radiation exposure limits set forth for an uncontrolled environment. this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC ID: Z23012A

1. this device may not cause interference.
2. this device must accept any interference, including interference that may cause undesired operation of the device.

l'émetteur exempt de licence contenu dans le présent appareil est conforme aux cnr d'innovation, sciences et développement économique canada applicables aux appareils radio exempts de licence. l'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage;
2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

this equipment complies with ic rss-102 radiation exposure limits set forth for an uncontrolled environment. this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

cet équipement est conforme aux limites d'exposition aux radiations ic cnr-102 établies pour un environnement non contrôlé. cet émetteur ne doit pas être situé ou fonctionner conjointement avec une autre antenne ou un autre émetteur.

CAN ICES-3 (B)/NMB-3(B)

IC: 9915A-012A