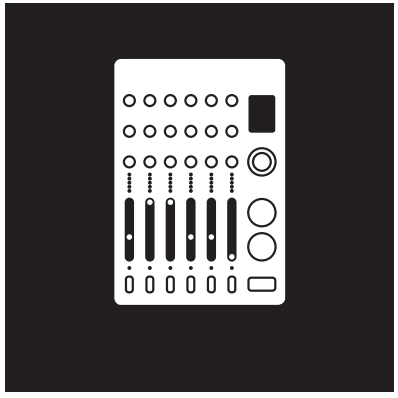
TX–6

field mixer
user guide

introduction



TX–6 is an ultra-portable 6 channel stereo recording mixer, as well as a 12 channel usb audio interface, and the first release in our field system. with more features than first meets the eye, it's a most diverse audio device, in and outside the studio. this guide is written to take you on a tour of TX–6 to discover its functionality. note that updates are constantly made for this product and an up-to-date manual can be found online.

- have a pleasant field trip!

field system

field system began as an idea to create a series of products that function as part of a whole. with aluminium casings and nylon bag accessories; every item is designed with portability, compatibility and durability in mind. as usual, we aim to pack in as much technology into as little space as possible, getting the most out of every device. more than just an engineering challenge, field system is driven by a desire to rethink the way we approach music making.

care

before getting started, make sure to carefully read these instructions. see the section at the end on warnings and warranty for more information. TX–6 is a highly technical and delicate product. make sure to learn how to properly operate, care for and store your device. take your time to register your unit here: teenage.engineering/register

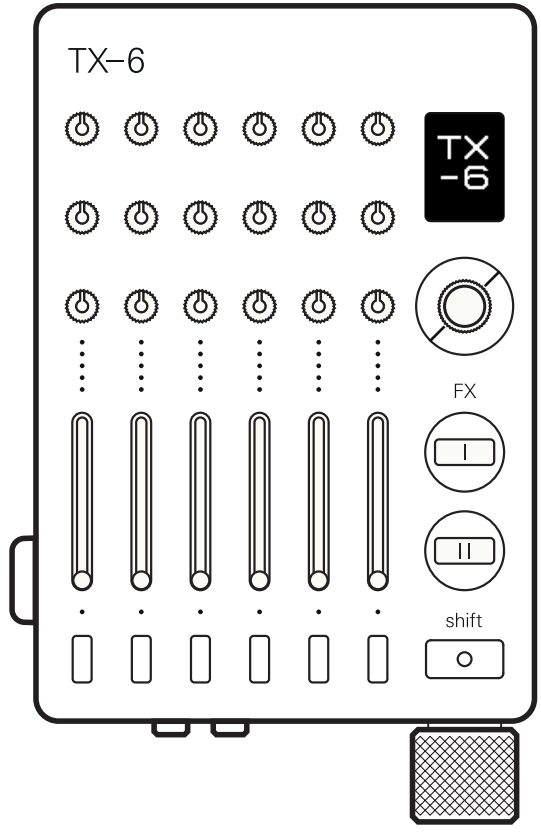
the latest version of this guide: teenage.engineering/guides/tx-6

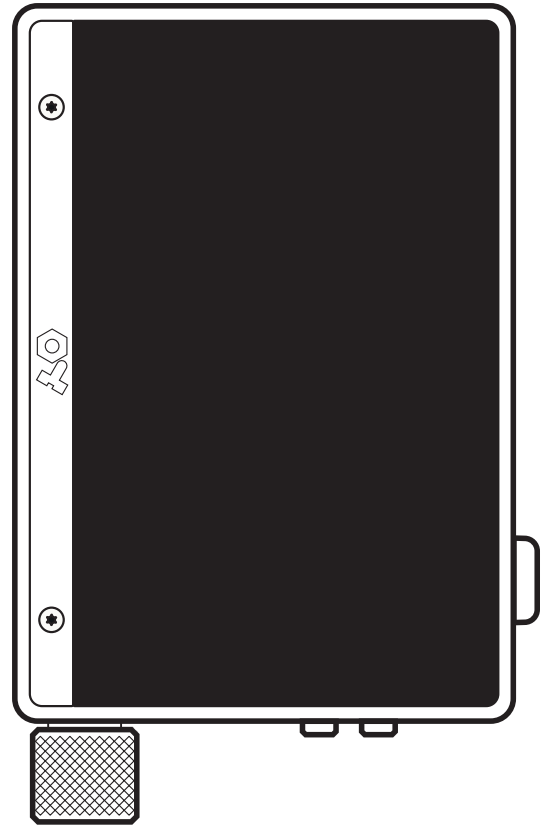
hardware

made in durable aluminium, with pu synthethic leather backing and custom made knobs and faders. beyond being a mixer, it's also a usb audio interface, has a built-in synthesizer and sequencer, and much more. the main control and navigation centers around the select knob and button, with all functions displayed on the compact oled screen. this guide takes you through the layout, connectivity, various modes and general functions of your TX–6.

TX–6 highlights:

- ultra-portable pro mixer
- 6 stereo inputs
- 3 stereo outputs (main / cue / aux)
- usb audio / midi
- 3 band equalizer
- low-pass & high-pass filter
- 2 stereo multi-effect units
- compressor
- limiter
- crossfader
- midi over usb-c and bluetooth le
- instrument tuner
- built-in synthesizer with sequencer
- 8 hour rechargeable battery

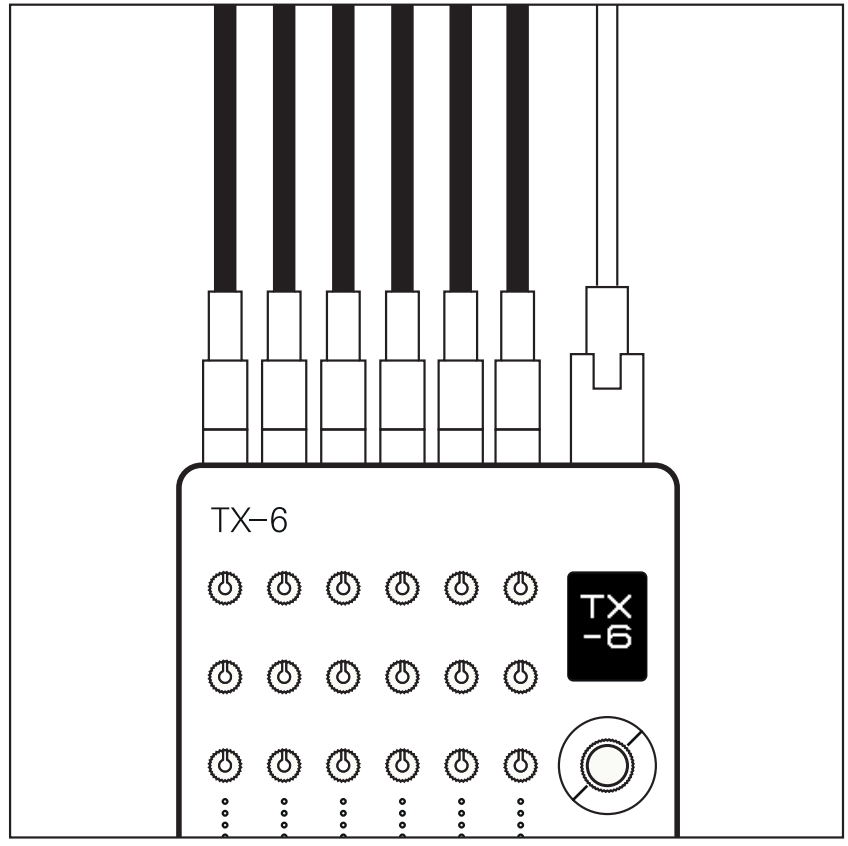

TX–6
TX
-6
FX
I
II
shift



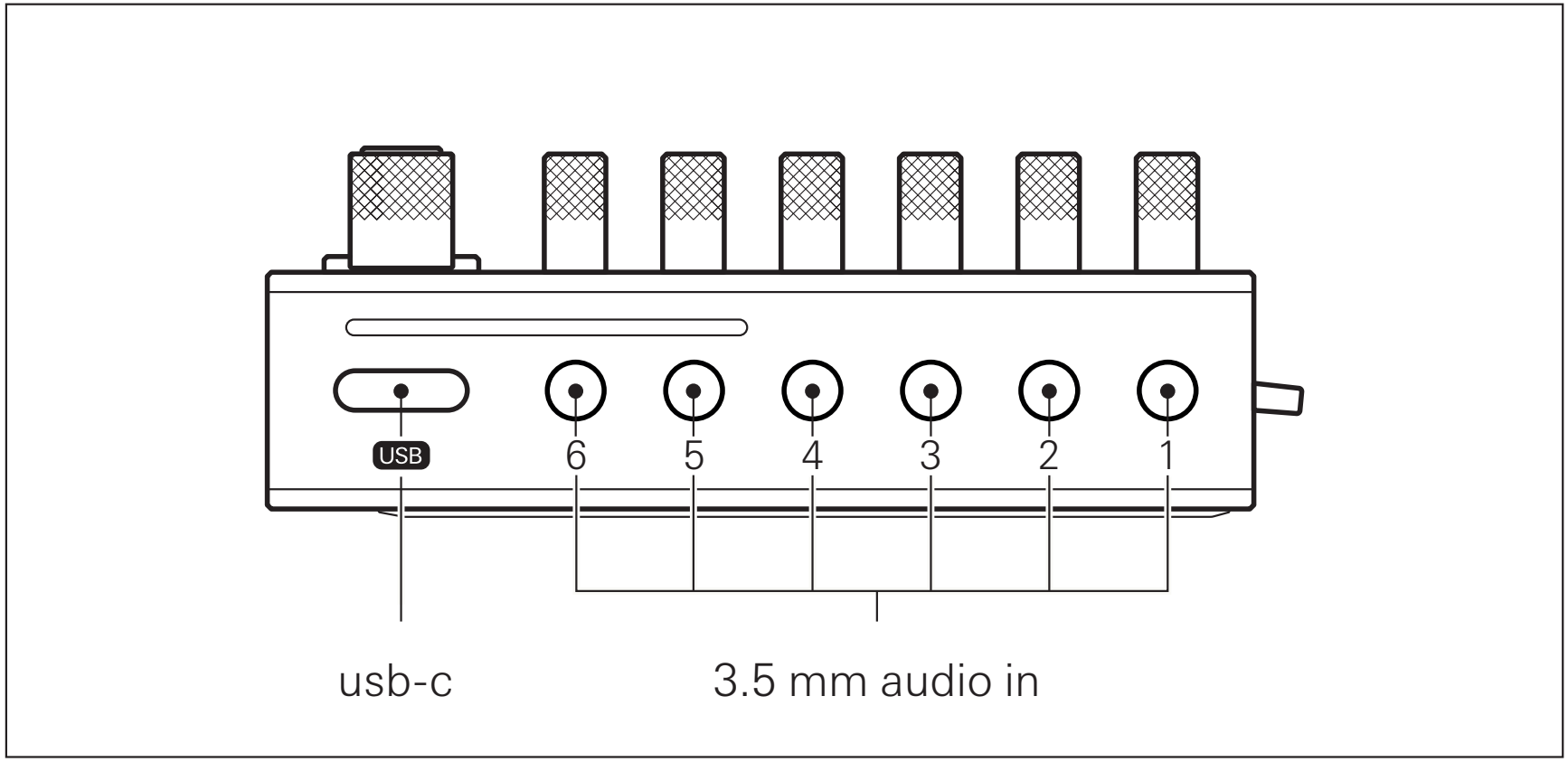
audio in

the audio inputs are located on the top side of the unit. there are six 3.5 mm stereo mini jack input sockets, all of which can be individually configured as mono, stereo or split L+R, in any combination. this means you can easily connect as much as up to 6 stereo sources, or even 12 mono sources, shared across the six physical inputs.

the usb type c port can be used as a multi channel audio interface, as well as for midi control, firmware updates and charging.



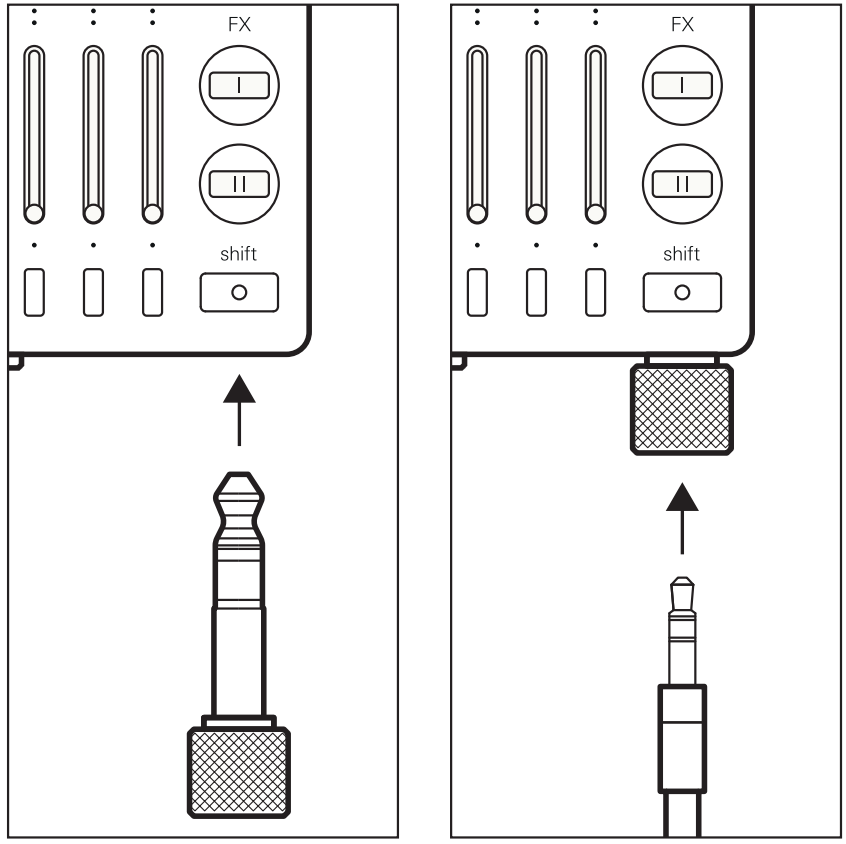
inputs



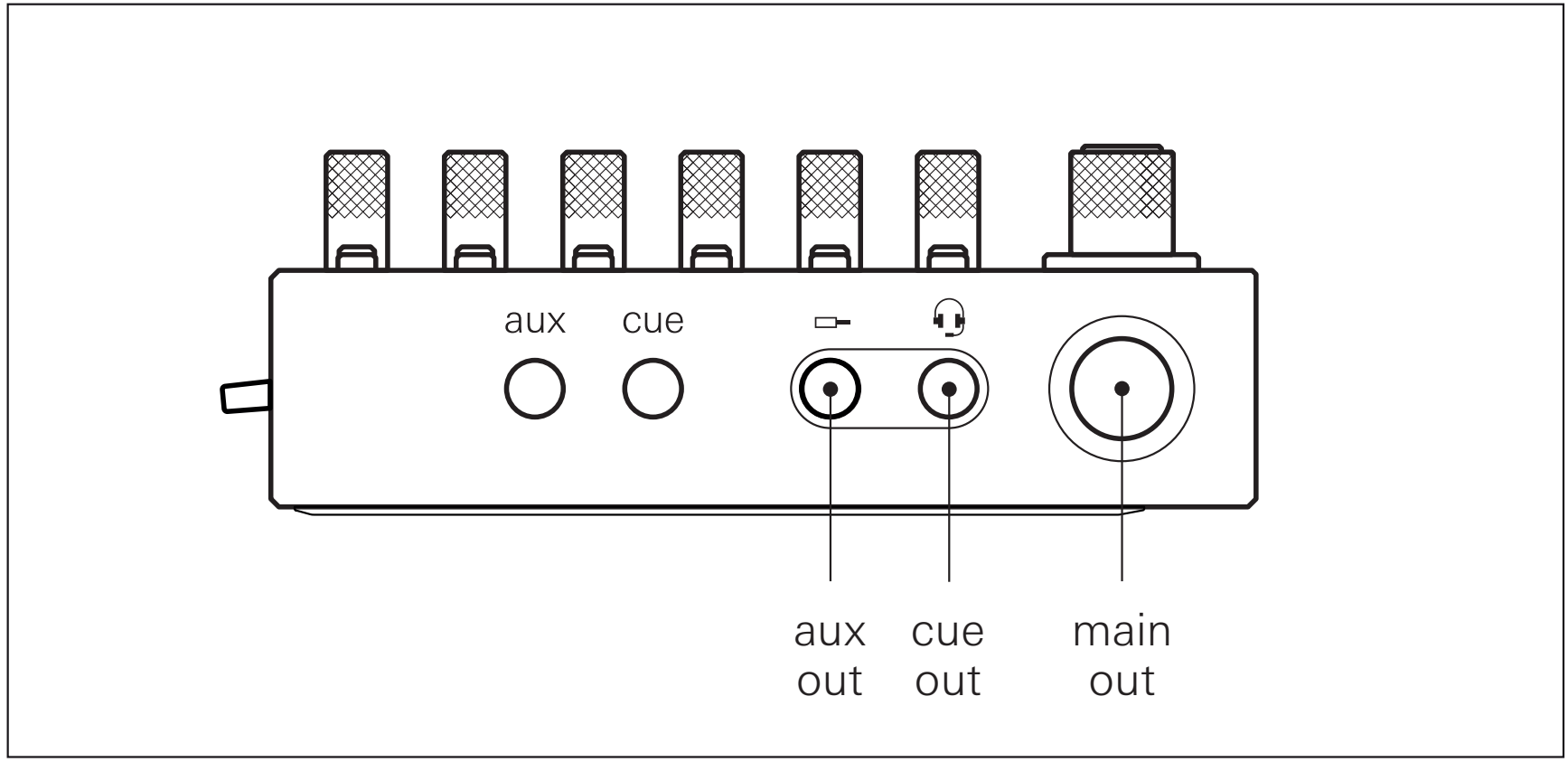
audio out

the audio outputs are located on the bottom side of the unit. there are three sockets consisting of one 3.5 mm stereo mini jack for aux out, another 3.5 mm headset and mic mini jack for cue out, and one 6.35 mm stereo jack for main out.

the main output includes a removable 6.35 mm jack to 3.5 mm mini jack adapter.



outputs

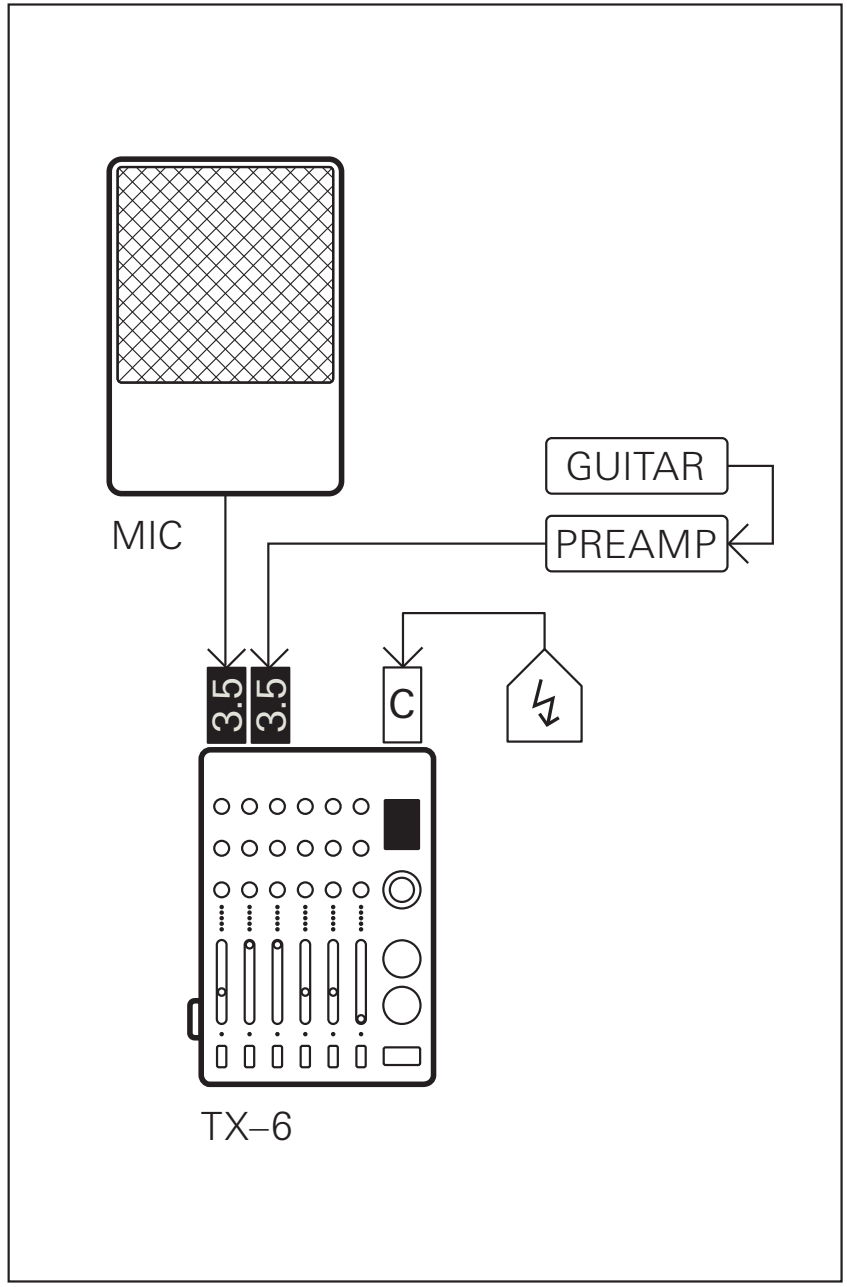


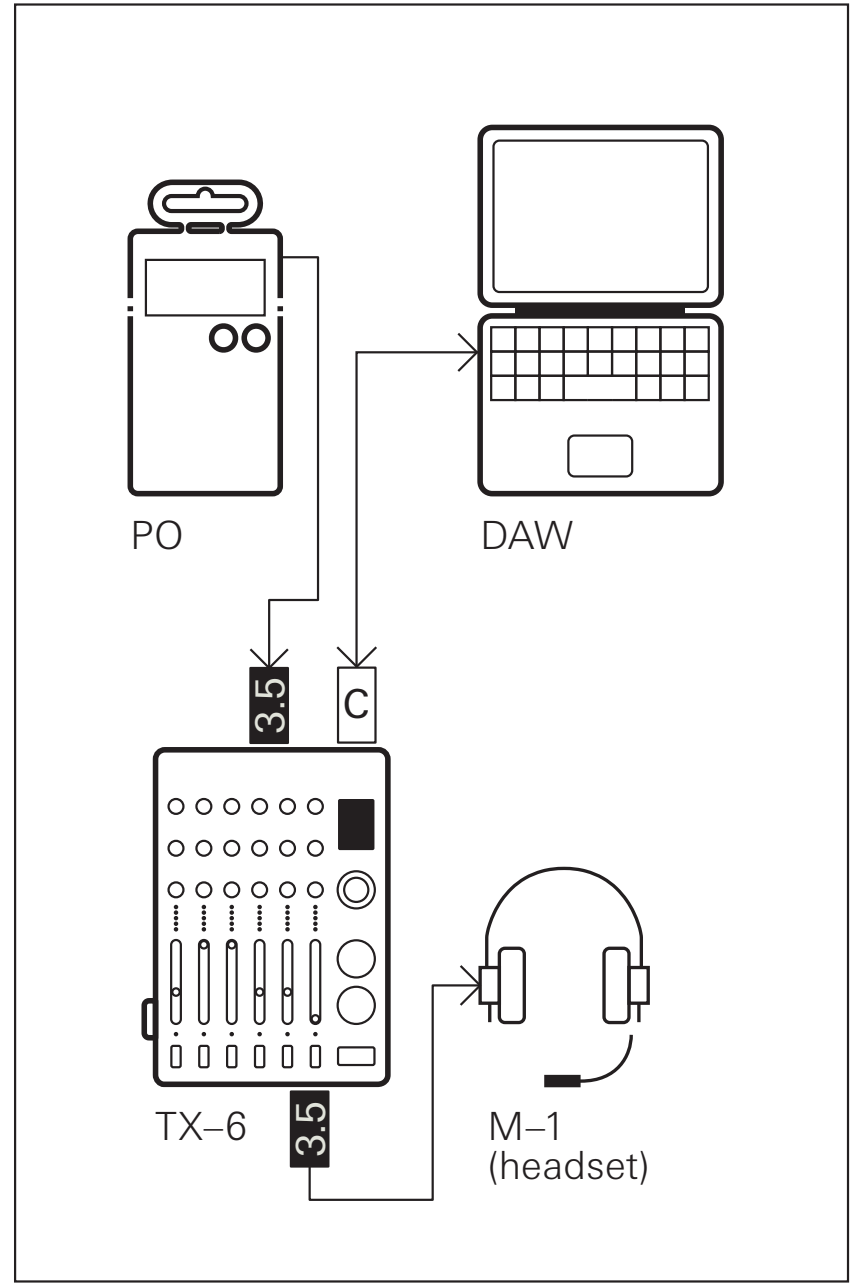
audio in examples

connect your audio sources into the TX–6 audio inputs. units such as pocket operators, OP–1, OP–Z or any other line level sources can be used. pocket operator modular should be connected via its speaker output. guitars and microphones may need a preamp to function well.

cue out directly accepts a headset microphone, such as the M–1.

usb can also be used for audio input, in addition to midi control, firmware updates and charging.

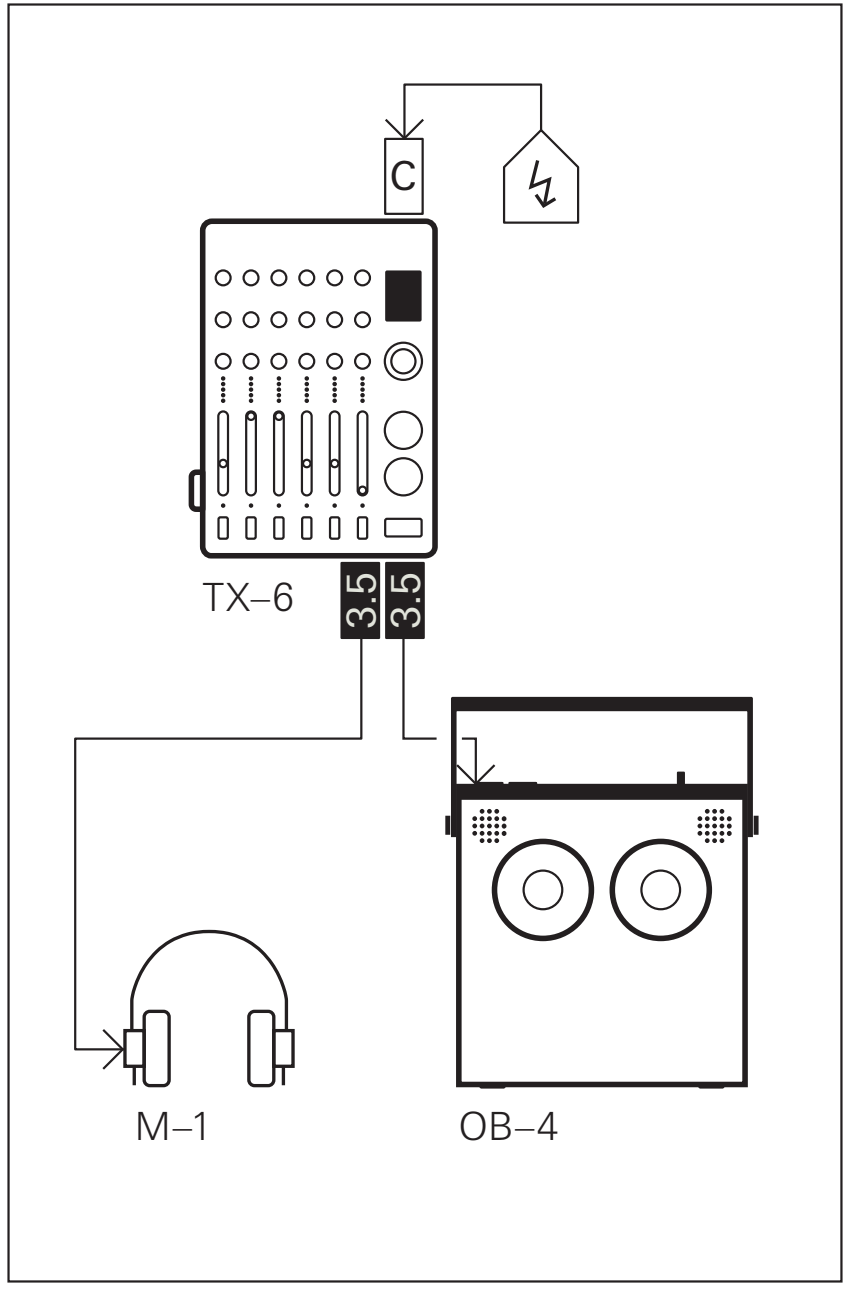

MIC
GUITAR
PREAMP
3.5
3.5
C
TX–6

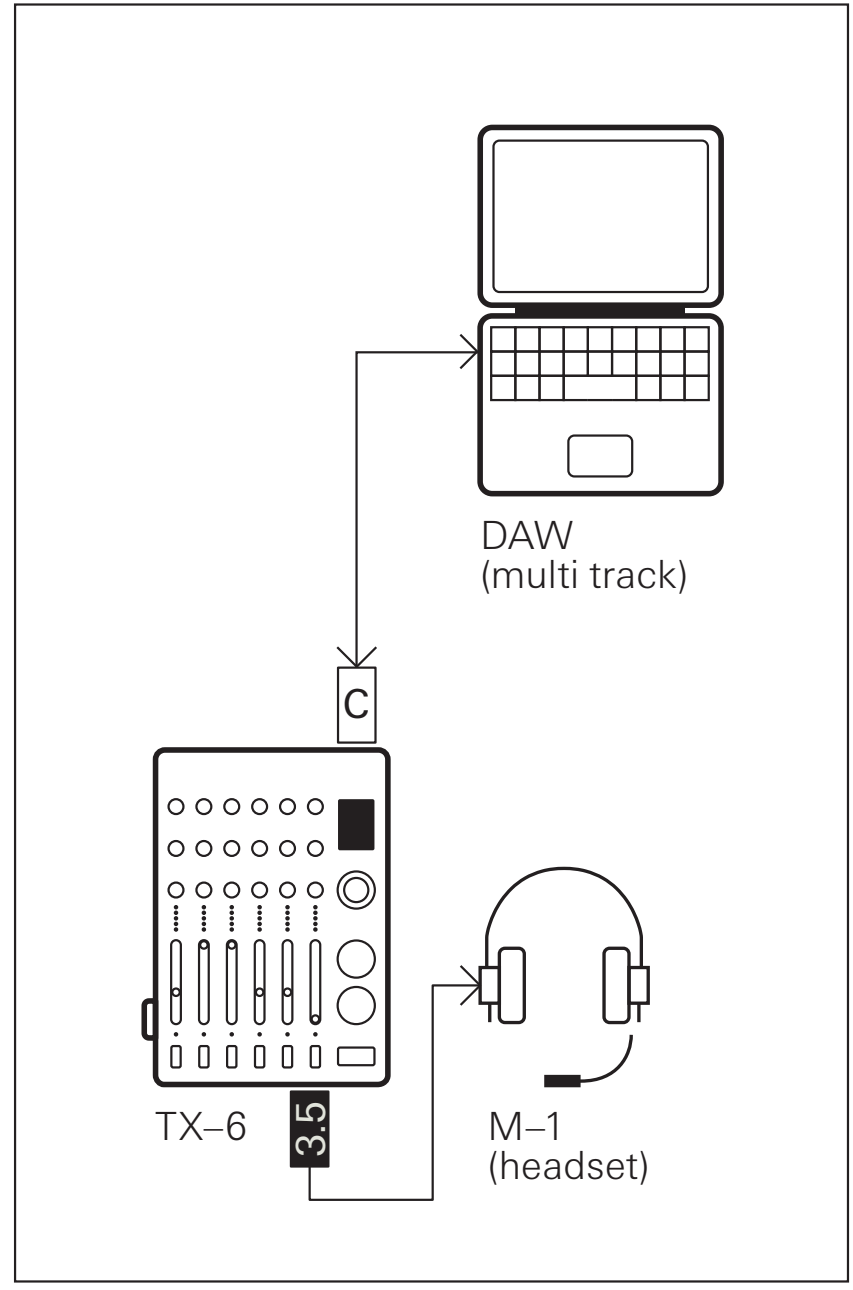

PO
DAW
3.5
C
TX–6
3.5
M–1
(headset)

audio out examples

the various outputs on TX–6 can be connected to headphones, studio monitors, pa speakers or other audio equipment. main out is used for the main audio output signal. aux and cue out can be used for monitoring and recording, as well as for creating effect loops.

usb can also be used for multitrack recording to a daw.

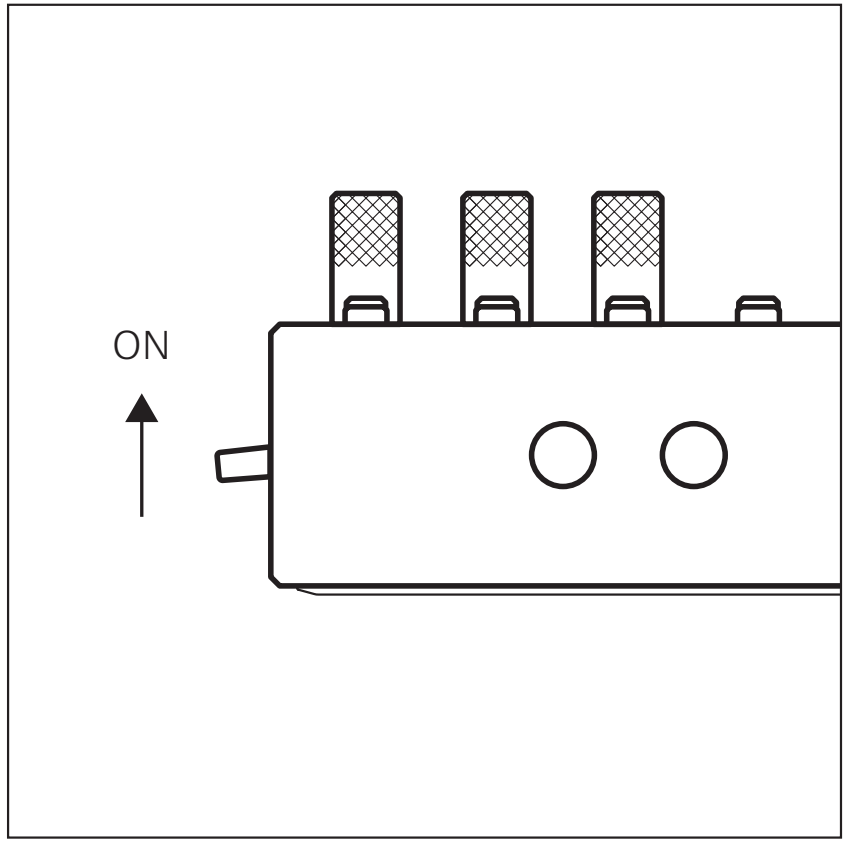

C
TX–6
3.5
3.5
M–1
OB–4


DAW
(multi track)
C
TX–6
3.5
M–1
(headset)

power on

turn on the unit by flipping the power switch to the up position. the led next to the switch will light up, indicating that the unit is on.

the display will briefly show the TX–6 power up title screen before arriving at the home screen, showing main level, vu meters for left and right, battery level and usb charge indicator.



charging

the unit is charged through the usb port. battery level is indicated on the home screen and from the system menu. when charging with the unit turned off, press any button to show the battery level. the side led turns green when the battery is fully charged. to keep the battery healthy, the unit should be charged at least every 6 months.

firmware update

to update the TX–6 firmware:

- connect TX–6 via usb to a computer.
- hold the cue button while switching power on to enter firmware update mode.
- the device will show up as a mass storage disk.
- put the new firmware file on the disk and eject. wait for the update to finish.

the latest firmware version:
teenage.engineering/downloads

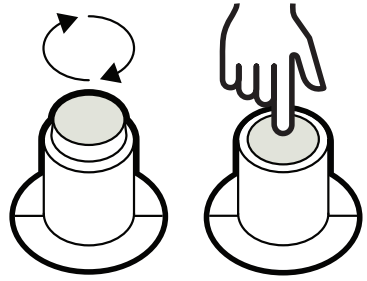
start

let’s start by getting familiar with the main TX–6 interface.

the select knob can be rotated to adjust main volume and parameters as well as navigating the system menu. the select button can also be pressed to select and confirm choices.

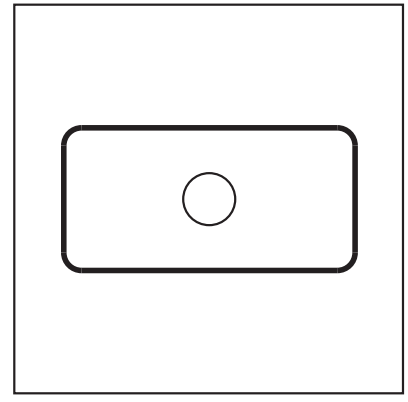
shift can be used to exit any menu and to return to home screen. it can also be used in combination with other buttons to access further functions.

select



by rotating the select knob you can adjust the main volume, parameter values and navigate the menu.

shift

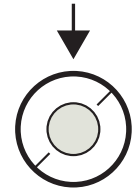


use shift to exit any menu and return to home screen, and in a button combo to access other functions.

guide conventions

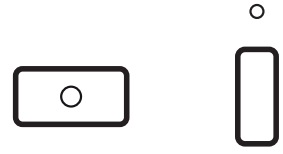
sometimes you will need to press buttons in sequence, sometimes in combination. these illustrations and texts will help you to follow along in the guide.

to press a button, tap it and then release. to hold a button press it and keep it pressed down. many of the knobs and buttons have different functionality depending on the context.

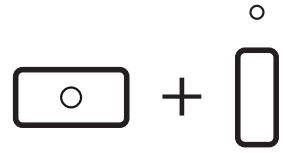


press the main select button.

rotate the main select knob.



first press one button and then the other.



press and hold the first button. then the second.

knobs / buttons

FX I

FX II

track buttons

aux

aux button

cue

cue button

parameter knob: blue

parameter knob: orange

parameter knob: white

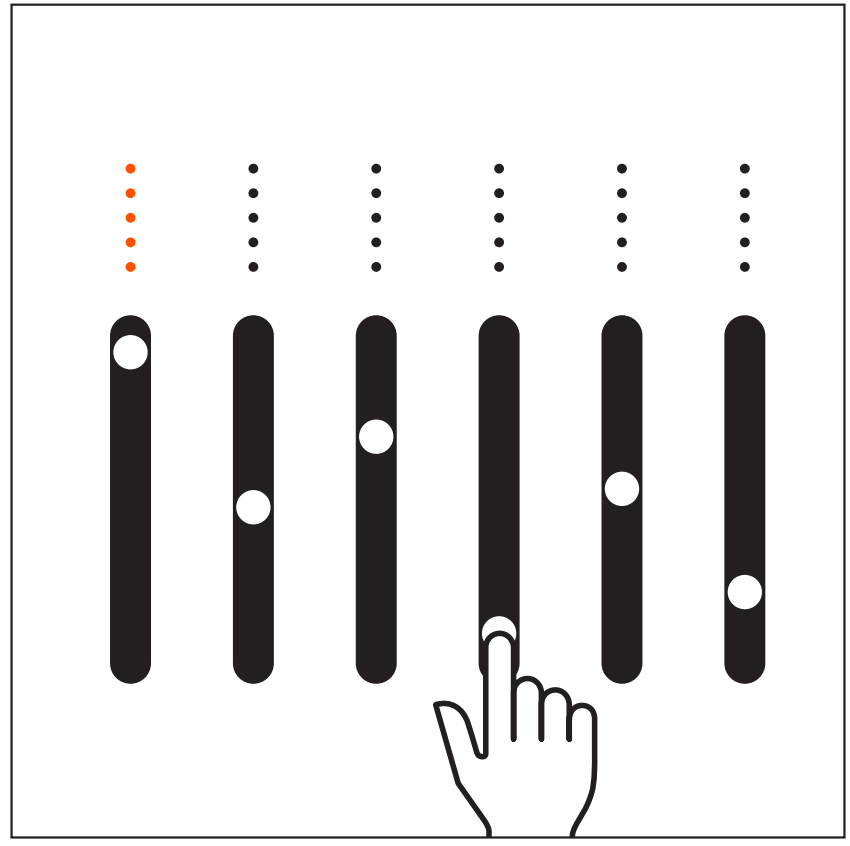
the parameter knobs control the three band eq by default, but can also be configured to control various other parameters. read more over the next pages.

faders and meters

the faders control the volume of the tracks. input level of each track is shown on the led vu meters. if clipping occurs in the input signal, all five leds will turn red. adjust the input gain of the track to prevent clipping.

if a channel is configured as a joined mono input, the fader will control both left and right input signals.

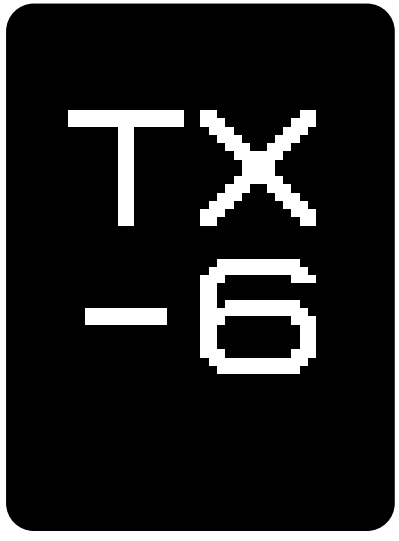
the led brightness can also be controlled from the system menu.



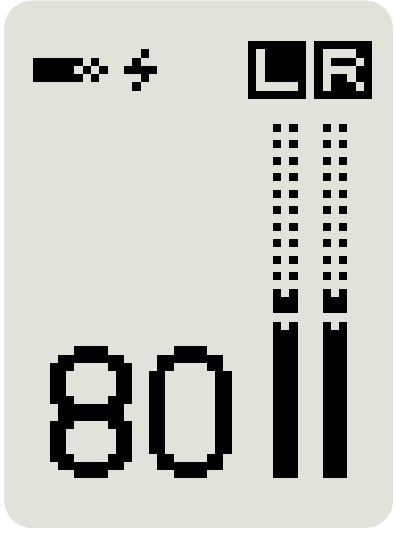
screen

the home screen displays main vu meters, battery charge status and the main volume setting. if any functionality is activated or a knob is turned, that will be reflected on the display before going back to the previous screen.

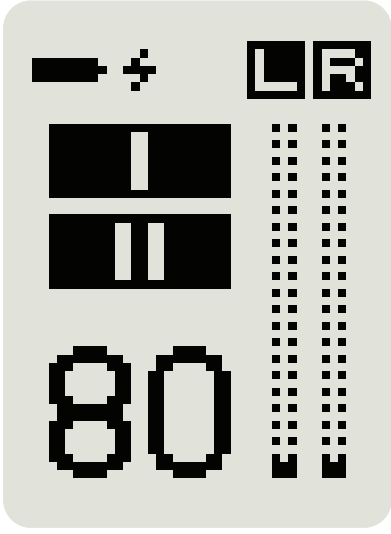
after a minute of inactivity the display will automatically dim to save power. if the unit is left untouched for some time, the display will turn off. press any button to activate it again.



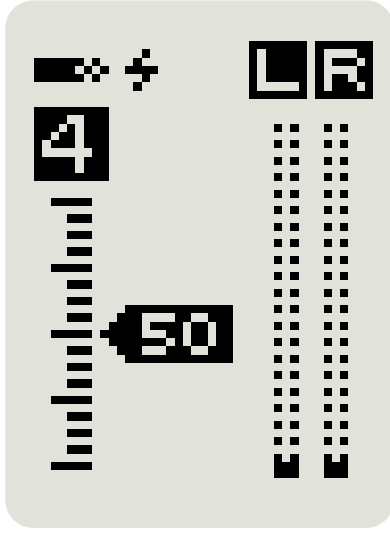
title screen.



home screen / master level.

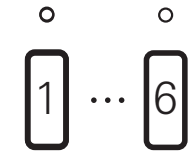


home screen / master level. FX I and FX II active.

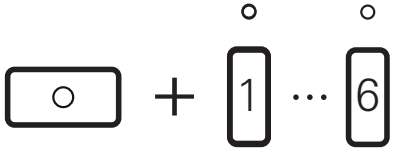


home screen / master level. precise level indicator for faders.

general operations



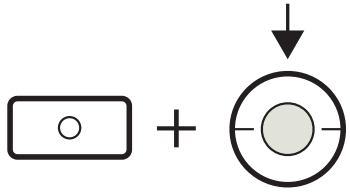
engage
solo / mute



cycle through
track menu

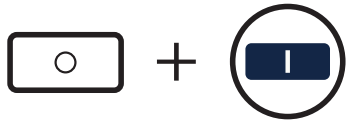
show aux /
cue page

show mic
page

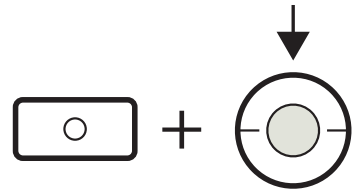


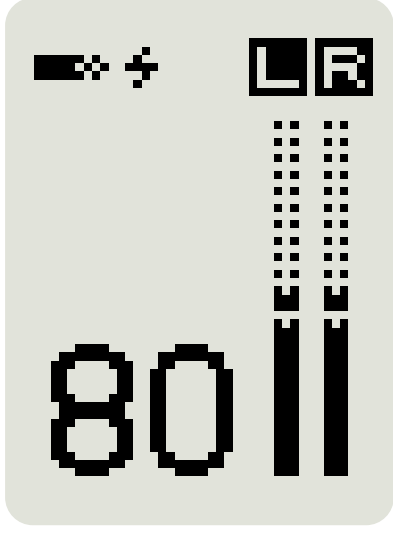
show system
menu

activate
effect

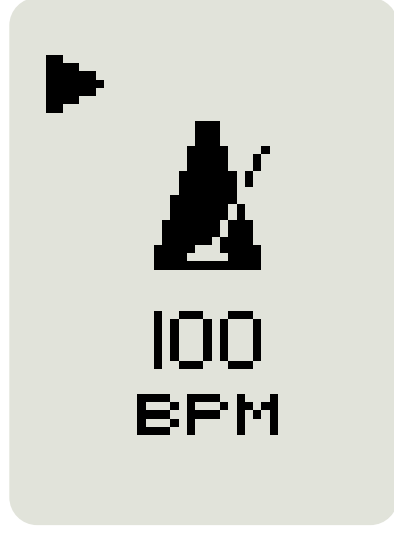


show fx
menu

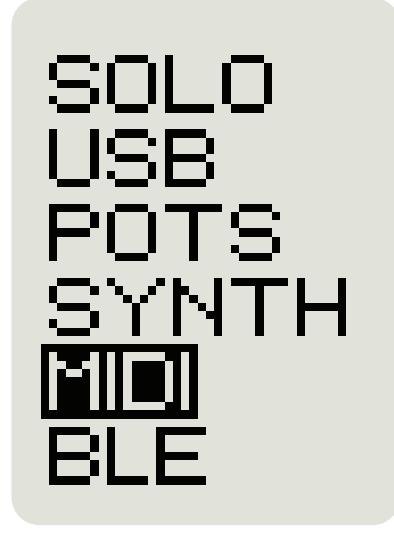




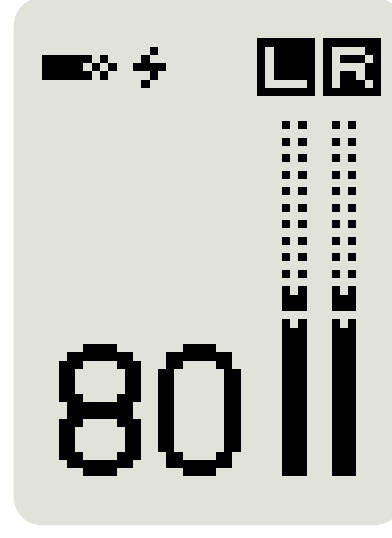
main volume.
turn select from the home screen to control the main volume.



tempo.
press select from the home screen to show the tempo screen.



menu.
hold shift and press select to access the system menu.



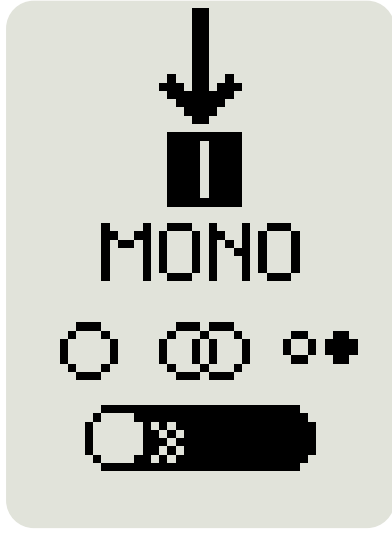
exit menu.
to exit any menu just press shift.

input mode

when a plug is connected into an input socket it is detected by TX–6 and a dialog is shown for you to select which configuration to use: mono, stereo or split. when split mode is selected, you can connect two mono sources to the same input with a splitter cable. in this mode, the pan parameter controls the balance of those two signals.

turn select and click the button to confirm and exit.

line in

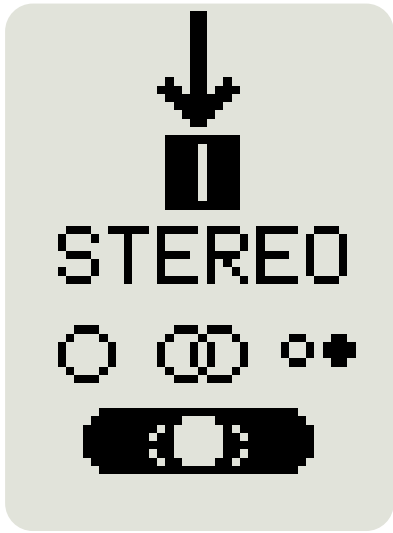


mono. left input signal mixed to both channels.

line in

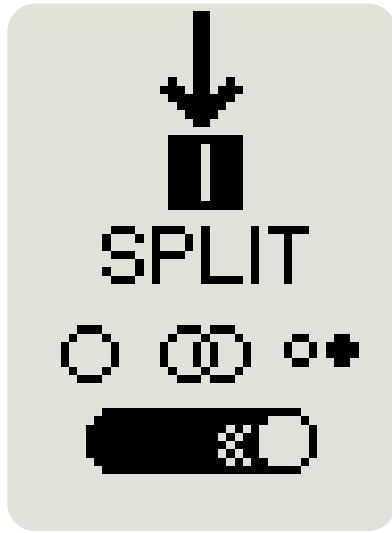
balanced mono. turn one extra step to enable mono input mode for balanced audio signals.

line in



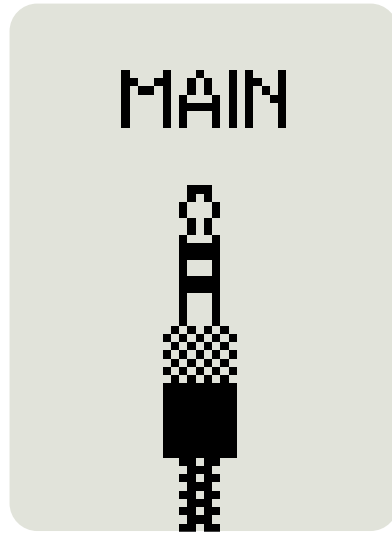
stereo. default. left and right stereo mix.

line in



split. left and right signals combined, for when using a splitter cable.

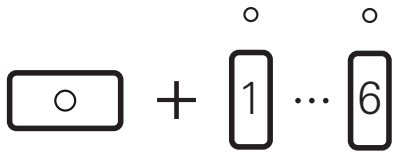
main out



main detection. when a plug is inserted into the main output.

note: the output sockets also detect the aux and cue connections and will show up on the screen.

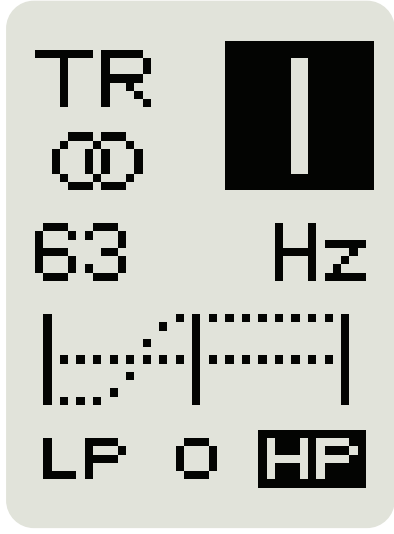
track menu



hold shift and press a track button to show the track menu. press several times while holding shift to cycle between the different settings. unless a setting is assigned to a parameter knob, it can be adjusted by turning the select knob. a symbol indicates which knob the parameter is assigned to. if there are multiple settings on a page, like the eq for example, press select to move to the next setting of the page.

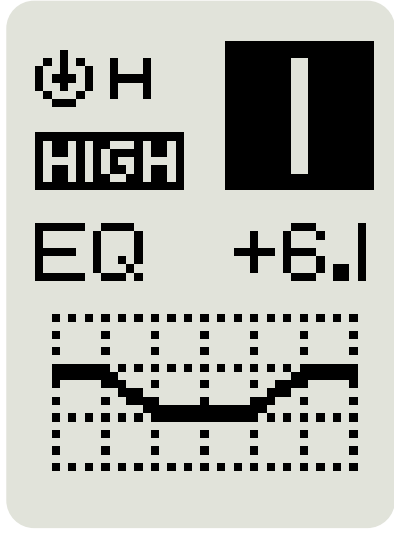
press shift to exit to home screen.

filter



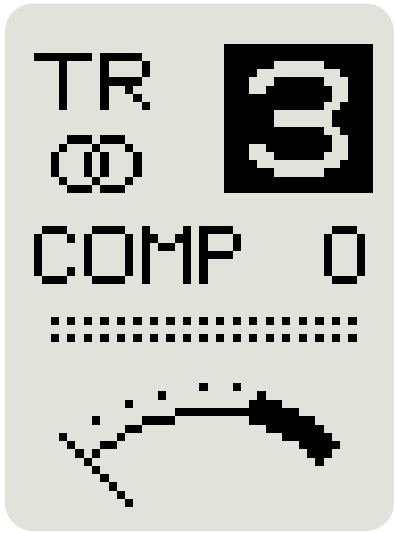
low pass /
high pass filter.

equalizer



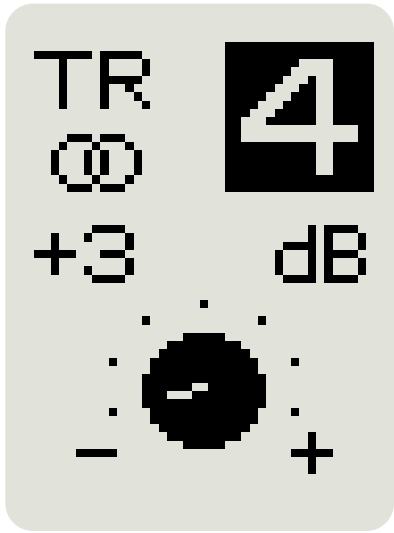
3-band equalizer
high / mid / low.

compressor



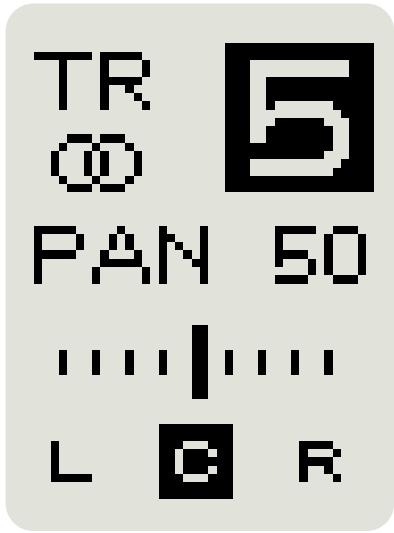
compressor.

gain



input gain.

panning



panning left and right.

pro-tip: press and hold the select button for one second to reset the current parameter to its default value.

solo

if the track buttons do not control any specific feature on the active screen, they are used for solo. press track buttons to select tracks to solo. the type of solo is set from the system menu.

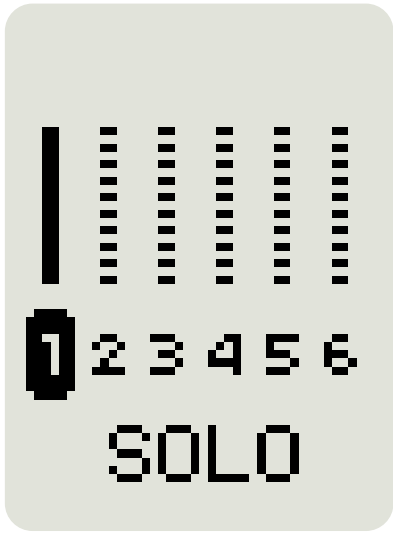
there are four different solo modes:

- solo - mutes other tracks
- mute - mutes active track
- solo momentary
- mute momentary

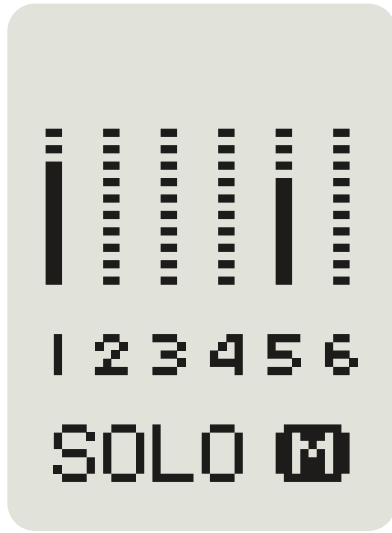
solo and mute can be useful both during mixing, as well as when performing.

when mixing, you can isolate parts of your mix using solo, for a better understanding of how each individual element comes together in your mix. when performing, you can use mute to creatively bring tracks in and out of your mix, to break it down and build it up.

solo

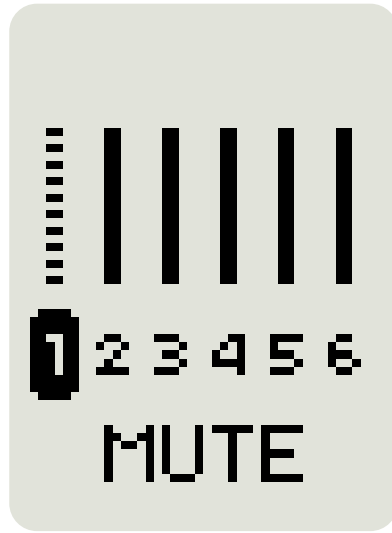


solo mode. solos selected channel and mutes others.

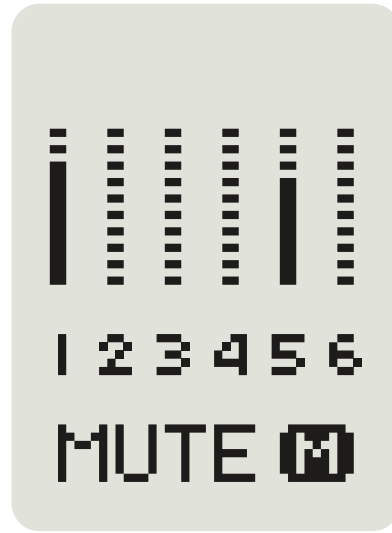


solo momentary. momentarily solos selected channel and mutes others.

mute



mute mode. mutes selected channel when pressing channel button.

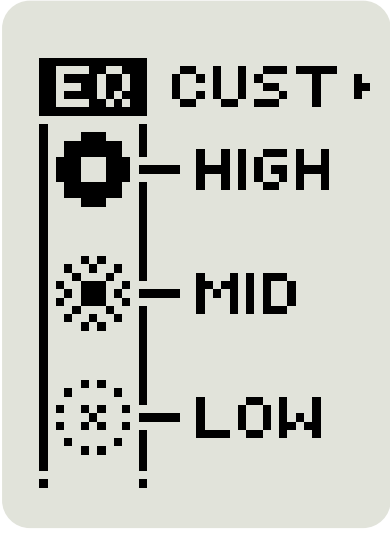


mute momentary. momentarily mutes selected channel.

parameter knobs

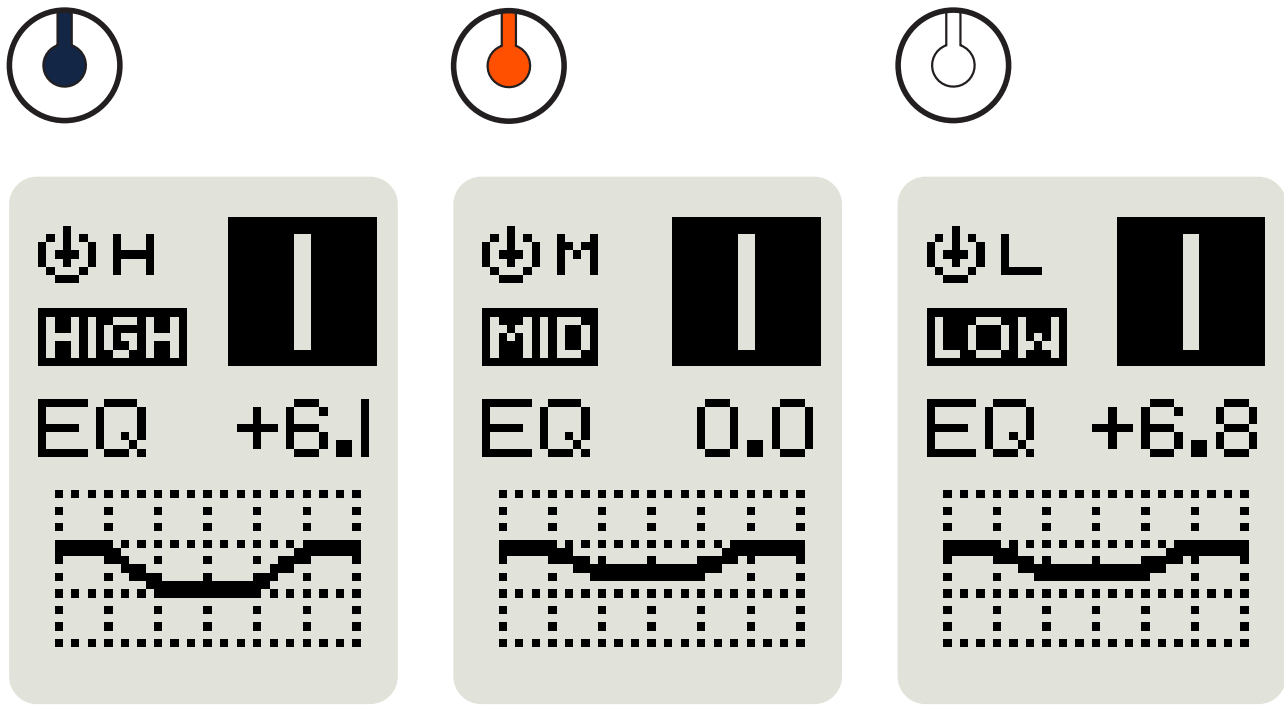
each of the six tracks has three potentiometers. these are the parameter knobs. by default the three knobs control a 3-band equalizer with a gain of ±18 dB per band.

when mixing multiple tracks together use the eq to adjust the individual track frequencies in order to get a well balanced overall mix.



equalizer. the default layout for the parameter knobs.

equalizer



the blue knob controls the high frequencies.

the orange knob controls the mid frequencies.

the white knob controls the low frequencies.

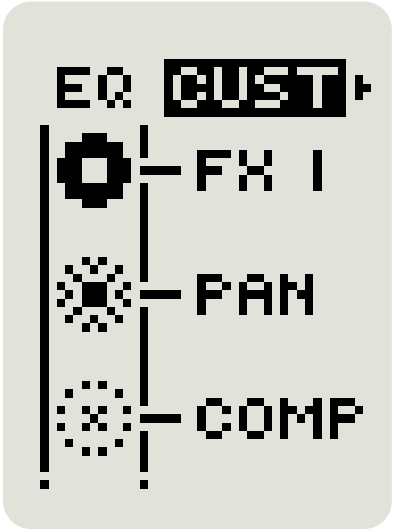
parameter knob settings

a custom knob scheme can be configured from the pots setting in the system menu. it is also possible to set individual configurations for each track. when a parameter is assigned to a knob, it cannot be controlled from the track menu. when a parameter knob is turned, the configuration will be displayed on the screen for a short time.

the available parameters that can be assigned to a custom knob scheme are:

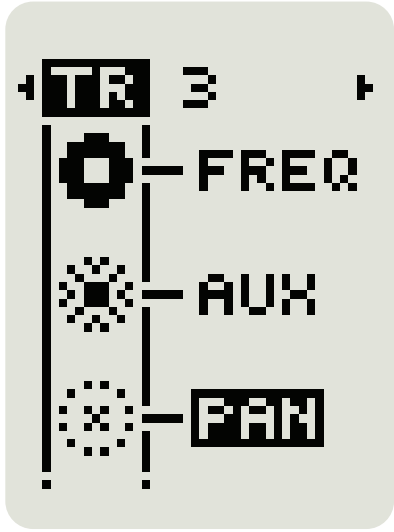
- flt - high pass / low pass filter
- comp - compressor
- pan - panning
- eq h - equalizer high
- eq m - equalizer mid
- eq l - equalizer low
- aux - aux send
- FX I - FX I send
- freq - oscillator frequency
- len - sequencer note length

custom



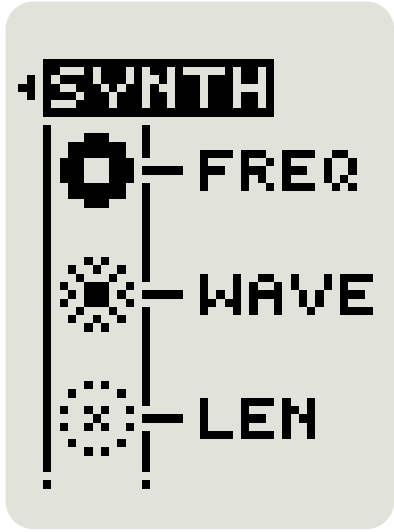
custom.
a configurable scheme for all potentiometers.

per track



track. individual potentiometer settings. use the track buttons to configure.

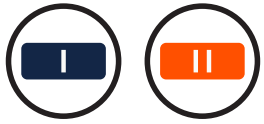
synth



synth. dedicated synth controls for the built-in syntheziser and drum machine.

pro-tip: the synth setting quickly assigns all parameter knobs to control the synth engine. great for when using synth mode.

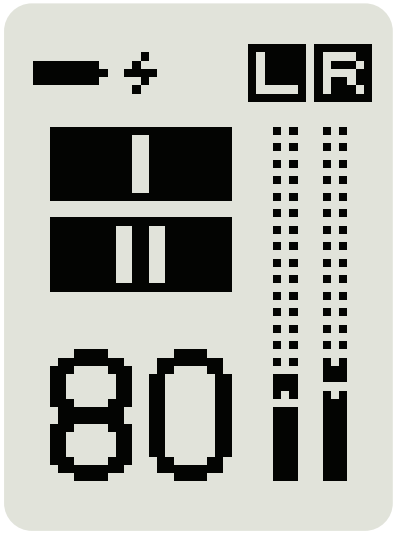
FX buttons



press either of the two FX buttons to toggle the effects on or off.

press shift and either of the two FX buttons to show the audio effects menu. press the FX button again (while holding shift) to switch to the next effect.

turn select to adjust the parameter or change preset. if there is more than one parameter, click select to move to the next. press shift to exit the menu.

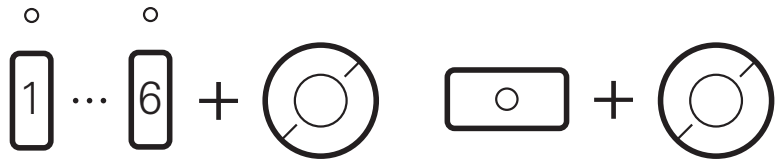


effects active on main screen.

pro-tip: when on the fx screen, hold the cue button to listen to the effect without activating it on the main output.

FX I

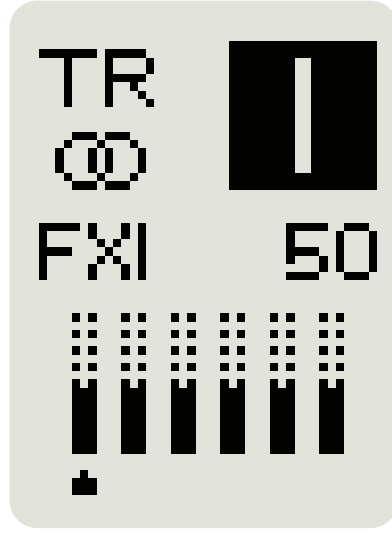
A B



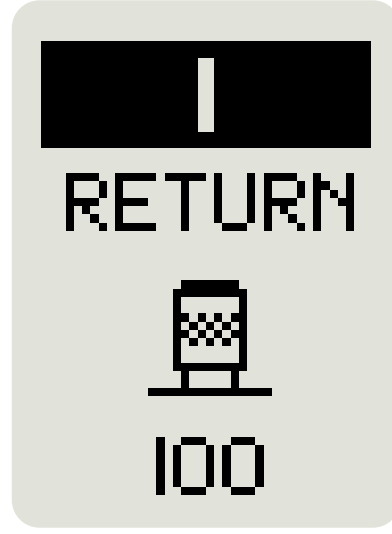
FX I is used for send effects, where some of the signal from a track can be sent to the effect, before it gets returned.

(A) when the FX I page is active, hold a track button and turn select to adjust send level for each track.

(B) hold shift and turn select to adjust FX I return level.

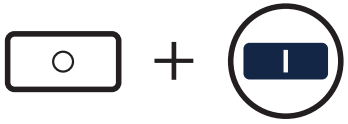


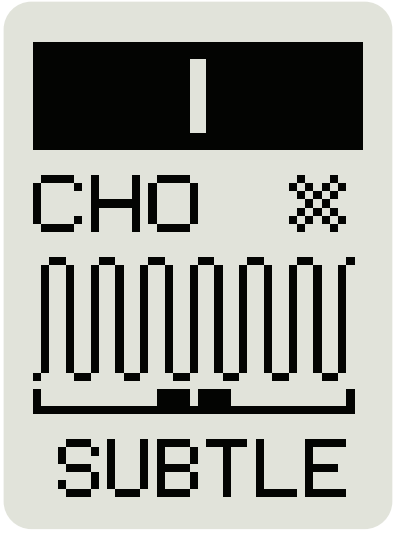
effect send level for FX I.



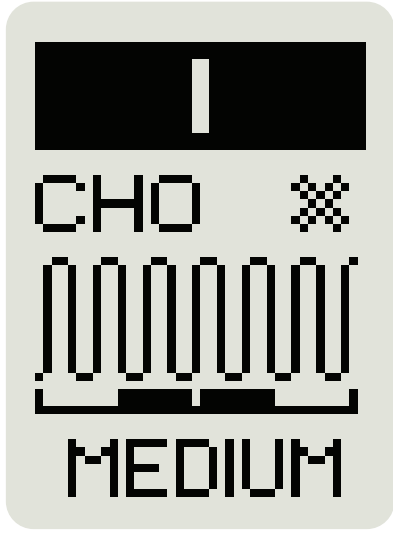
effect return level for FX I.

FX I

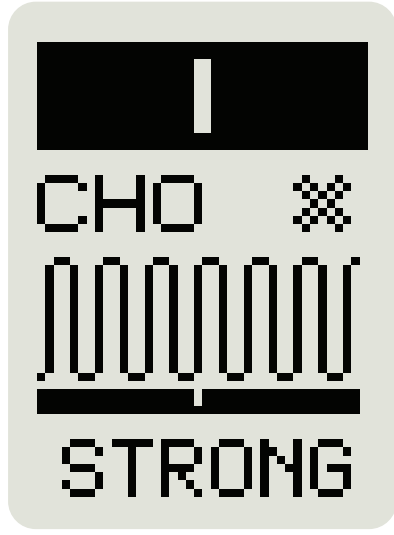




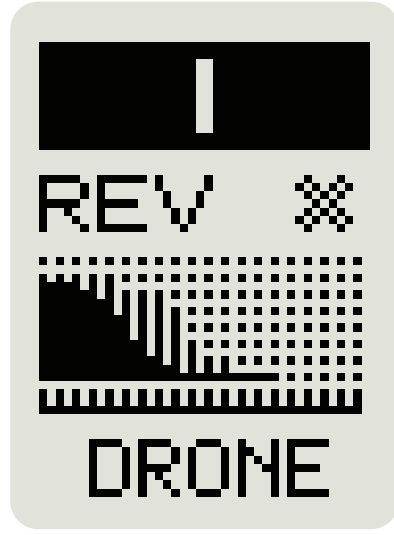
effect I:
chorus: subtle.



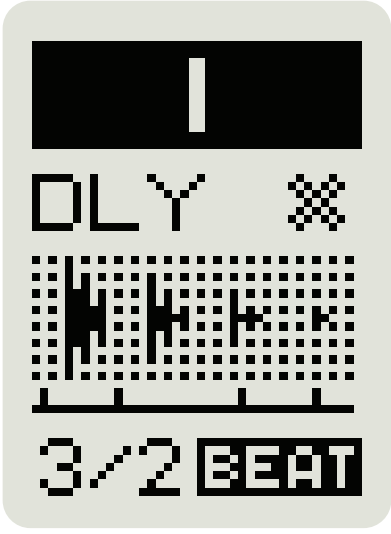
effect I:
chorus: medium.



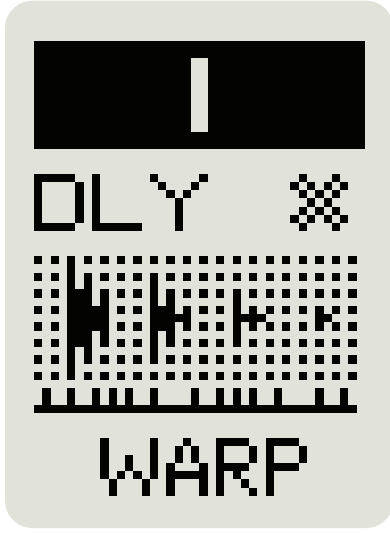
effect I:
chorus: strong.



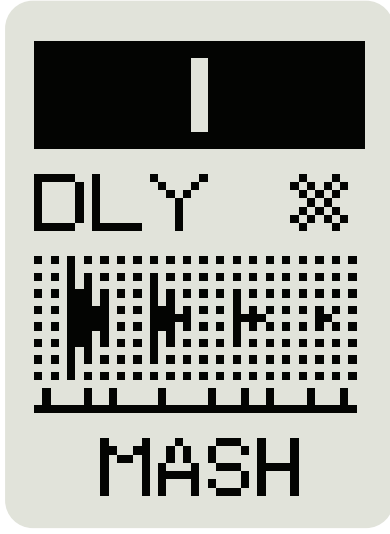
effect I:
reverb: drone.
more: light,
small, medium,
large.



effect I:
delay: 3/2.
more: 1/8, 1/4,
2/3, 3/4, 1, 3/2.

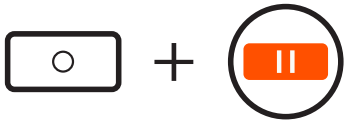


effect I:
delay: warp.



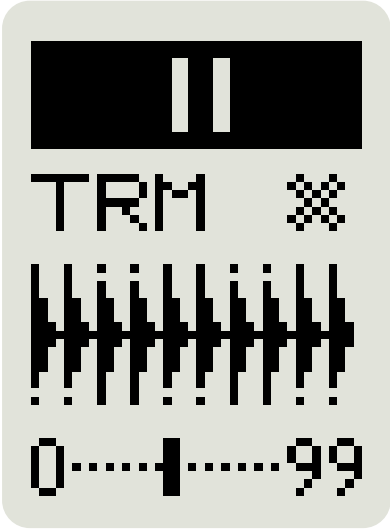
effect I:
delay: mash.

FX II

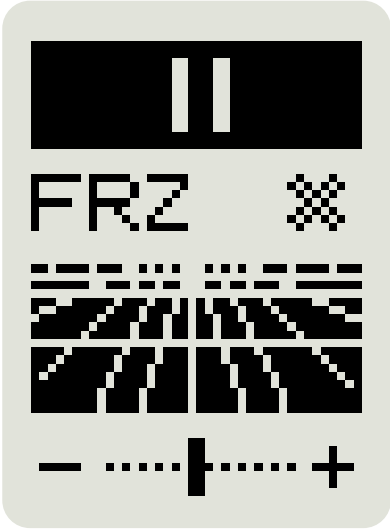


FX II is used for insert effects, where all of the signal goes through the effect when activated. FX II can be configured to operate on a single track or on the main mix.

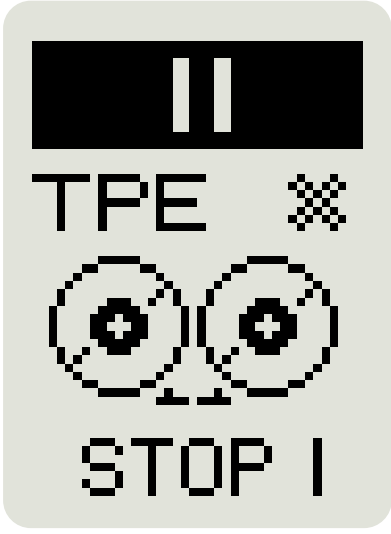
when on the FX II page, click any track button to select track. click on the selected track again to select main mode.



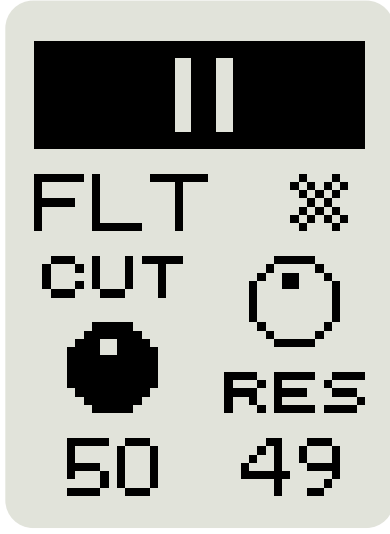
effect II:
tremolo.



effect II:
freeze. tap
select to reset
parameter

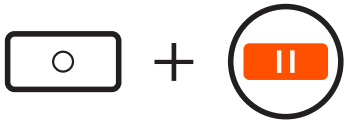


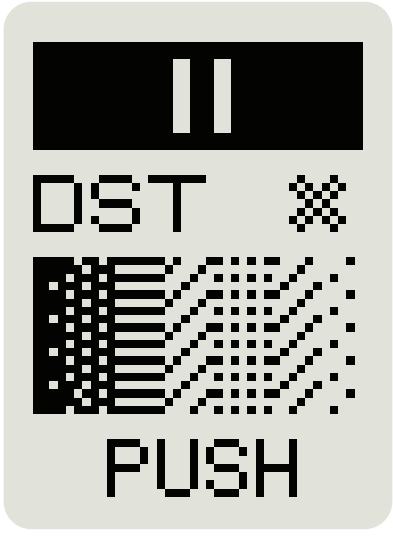
effect II:
tape: stop 1.
more: stop 2,
pong.



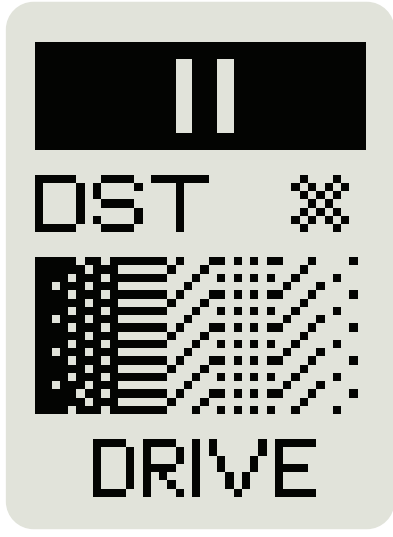
effect II:
filter.

FX II

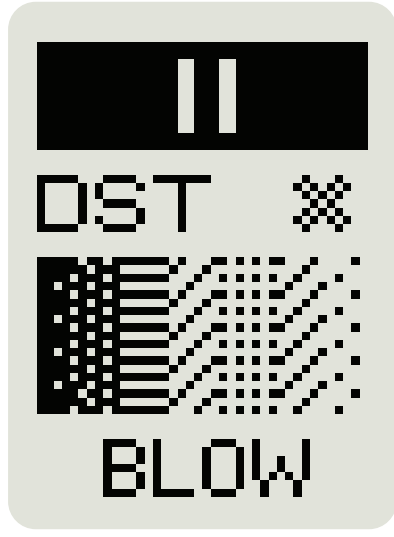




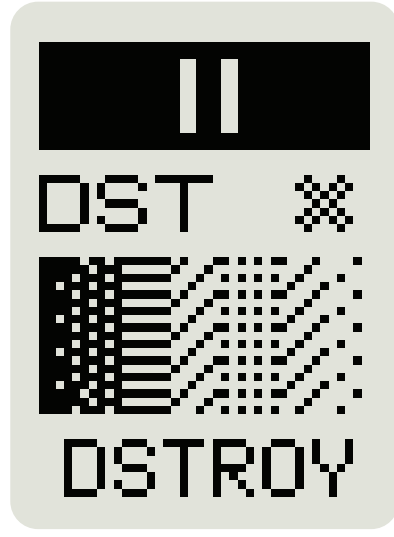
effect II:
distortion: push.



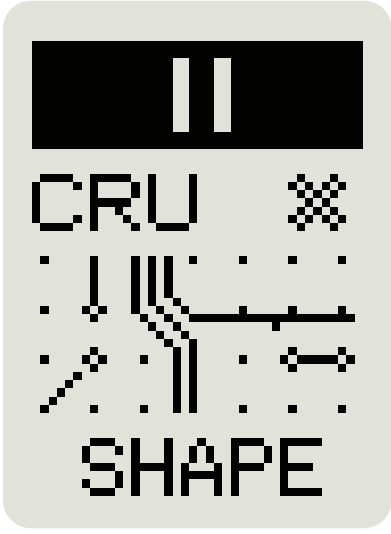
effect II:
distortion: drive.



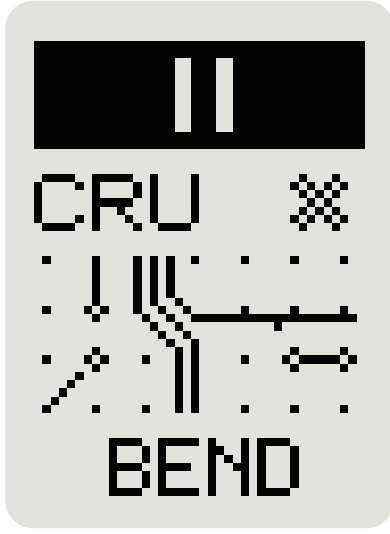
effect II:
distortion: blow.



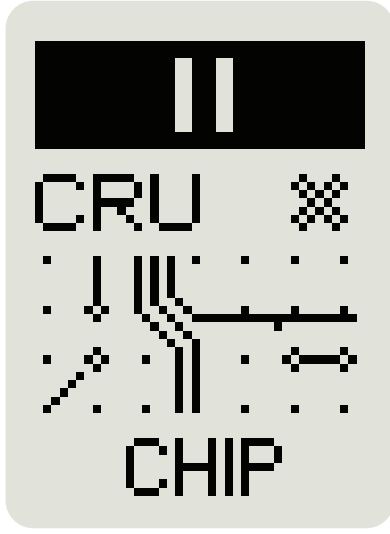
effect II:
distortion:
dstroy.



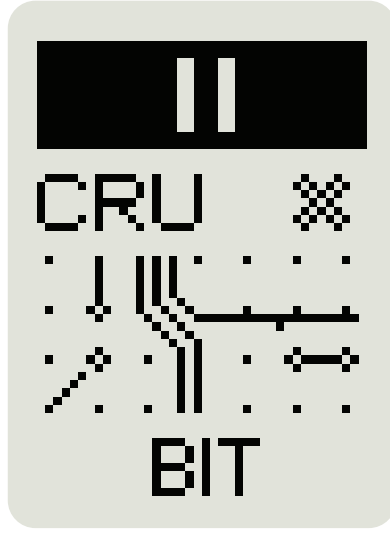
effect II:
crush: shape.



effect II:
crush: bend.

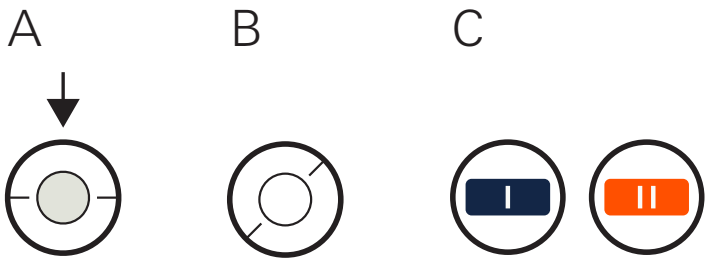


effect II:
crush: chip.



effect II:
crush: bit.

tempo



(A) the mixer has an internal tempo that can be set locally or controlled by an external midi clock. the tempo screen is accessible from both the system menu and through the quick access command.

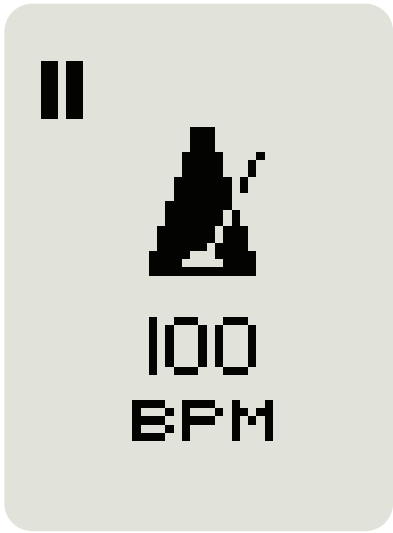
(B) turn select to adjust desired tempo from 40 to 400 bpm.

(C) use FX I button for tap tempo and use FX II button to set a new start point.

when on the tempo screen, press select to toggle play / stop. this will start the internal sequencer if activated in synth mode.

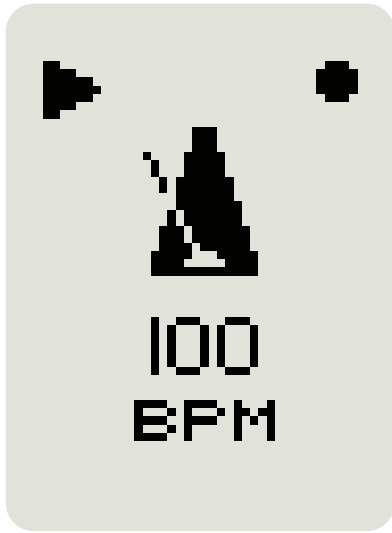
the tempo is used for beat synced effects, for example tremolo and delay and also sets the tempo for the built-in sequencer.

stopped



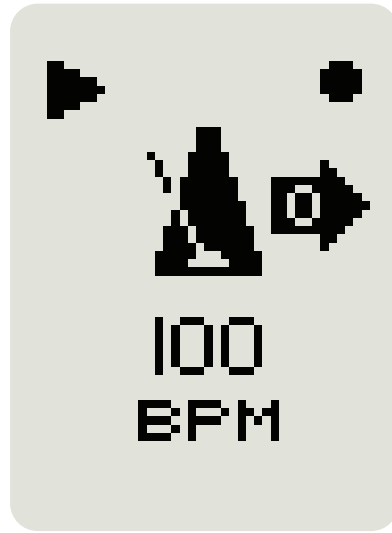
tempo main screen. clock is stopped.

playing



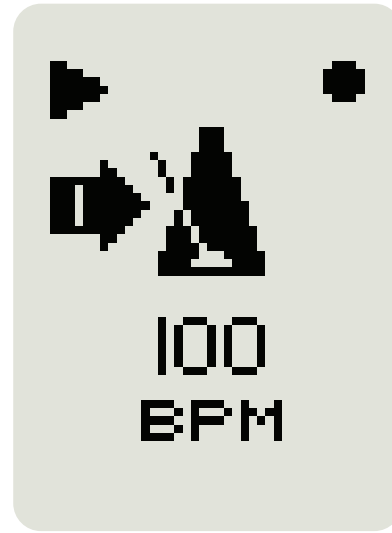
tempo main screen. clock is running using internal tempo.

playing



clock is running and showing a blinking beat indicator. sync out is active.

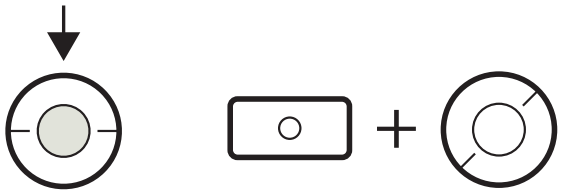
playing



clock is running and showing a blinking beat indicator. sync in is active.

quick access

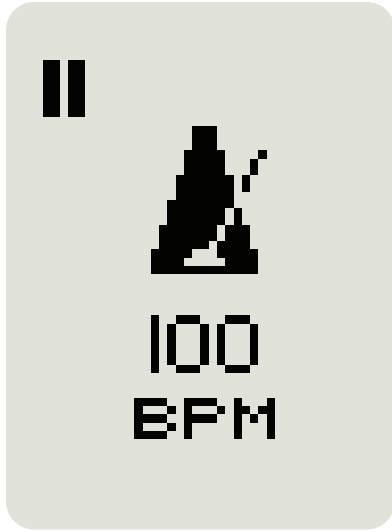
A B



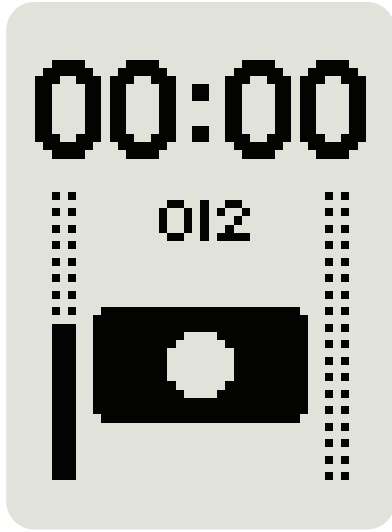
some functions can be reached through quick access, as well as from the system menu. these functions are tempo and the recorder.

(A) to reach the function currently assigned to quick access, just press select from the home screen.

(B) to switch between quick access functions, hold shift and turn select. tap shift to exit back to home screen.



tap select from the home screen to access your current function.



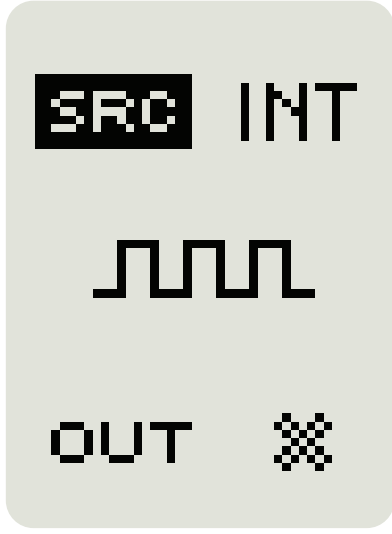
hold shift and turn select to switch between functions.

clock

TX–6 can be set to either one of the three midi clock sources: internal, usb and ble.

set the midi clock output to on / off by pressing select.

if both input and output is enabled, midi clock messages are routed between usb and ble.



clock source internal.
midi out: off.

clock source ble.
midi out: on.

disk recorder

A B C

TX–6 can record and playback 48 kHz 24-bit pcm stereo wav files, using a usb mass storage device such as a usb flash drive or a powered ssd.

select disk from the main menu, or use quick access.

note: the device must be formatted with the FAT file system, using master boot record (not guid).

when on the disk page:

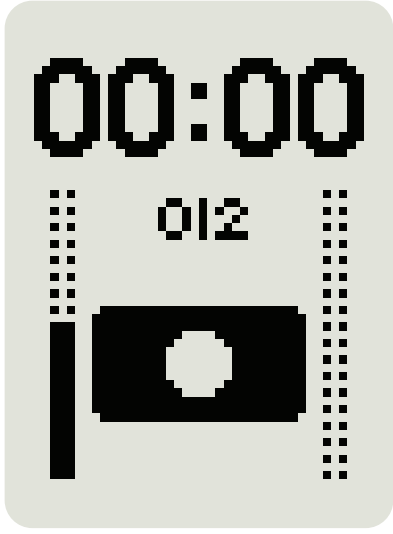
(A) FX I acts as play.

(B) FX II acts as record.

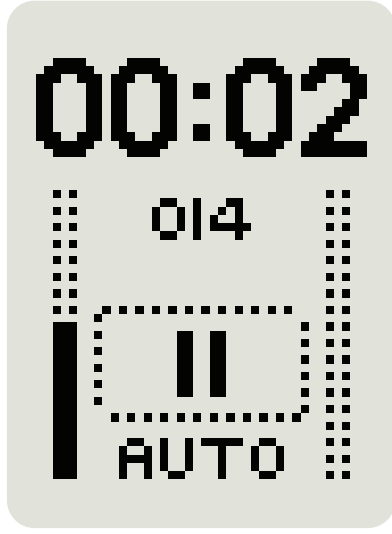
(C) press shift + record to record in auto mode. recording will start when audio is detected and stop after 5 seconds of silence.

use these buttons to switch between record mode and play mode, and to start and stop recording and playback.

recording



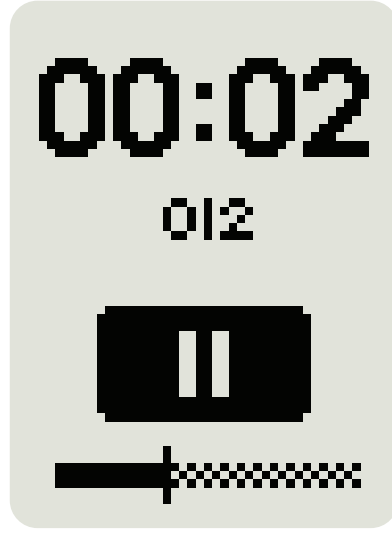
recording screen.



auto mode screen.

playing

play mode screen.

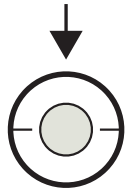


turn select to scrub. playback is stopped when scrubbing.

disk recorder

while in the disk recorder, press select to show the file browser. use select to scroll through the files and FX I to start playback. press select to choose a file and return to play mode .

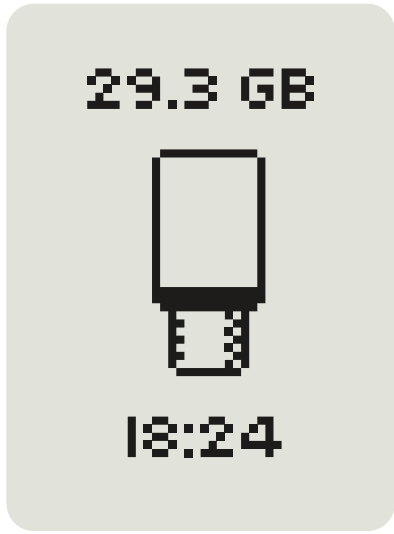
press and hold select while in the file browser to delete a file. confirm by turning and then clicking select.



press select to show the file browser.

scroll through the list and press FX I to start playback.

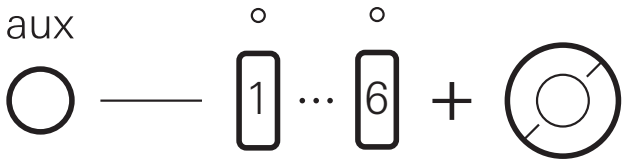
delete files by holding select in the file browser, and confirm by pressing select.



go to the usb screen in the system menu to show free space in gb/mb and hh:mm.

note: do not disconnect the usb drive when the disk is busy. this is indicated by a flashing symbol on the home screen

aux out

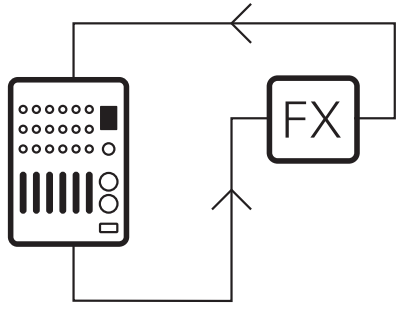


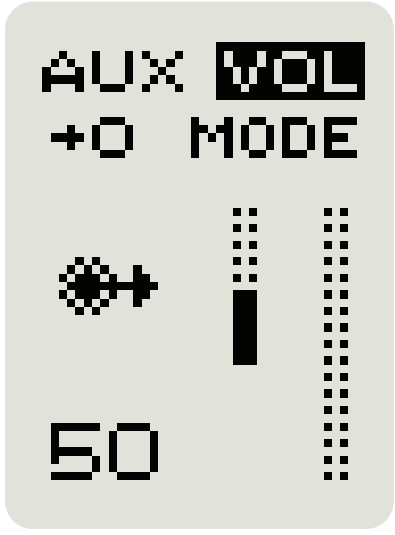
aux out can be used as a second output. press the aux button to show the aux page and see a graph showing the aux send levels of each separate track. control aux output volume with select, and hold a track button and turn select to adjust the aux send level for individual tracks.

press select to access the ‘mode’ setting where aux out can be set to pre-fader or post-fader by turning select.

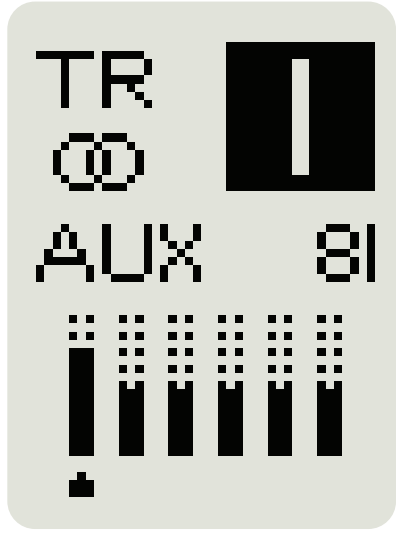
pro-tip: aux out can be used to create an external effects loop, routed back into one of the inputs.

you can also use aux out with a recording device to record a live performance.

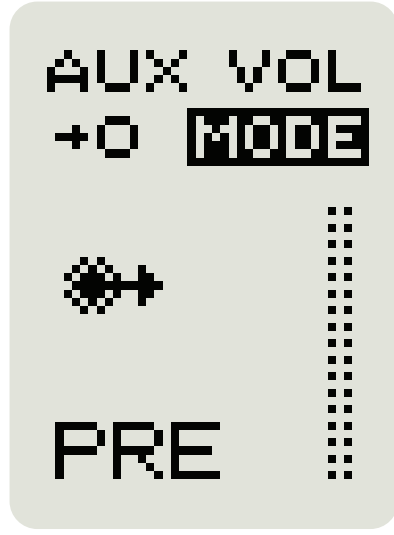




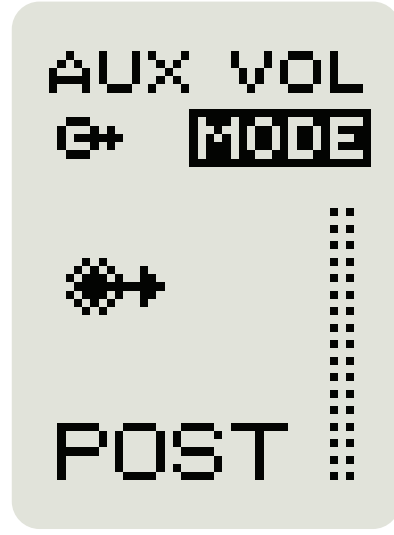
main auxiliary level.



individual auxiliary send per channel with track button.

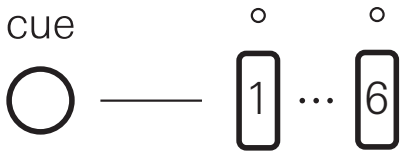


auxiliary pre-fader selection.



auxiliar post-fader selection.

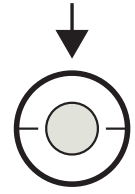
cue out

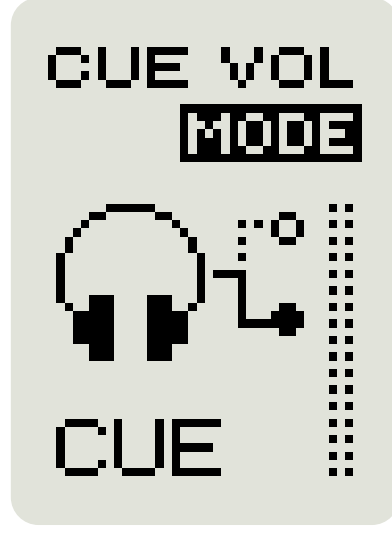


cue out can be used as a headset output. press the cue button to show the cue page and use the track buttons to choose which tracks to send to cue out. set the cue volume by rotating select.

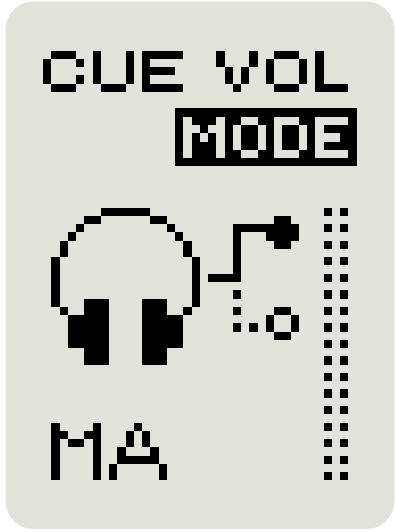
press select to access the ‘mode’ setting where the cue output mode can be set to cue or main. main means you will hear exactly what is going through main out.

cue out volume. adjust it with the select knob. be careful with your ears.

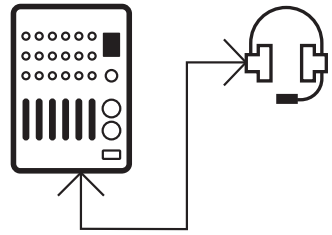




cue mode cue. use the track buttons to assign which tracks to send to cue out.

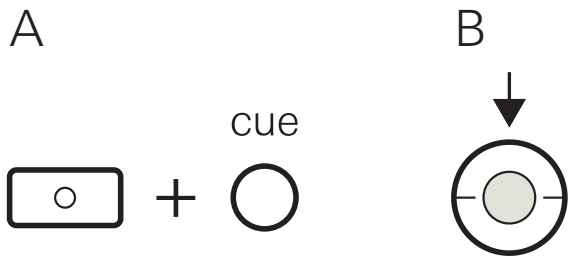


cue mode main. listen to exactly what is going through the main output.



headset with a microphone connected to cue out. see next page.

headset mic

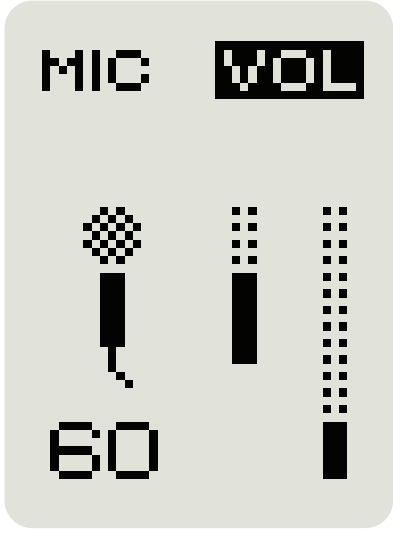


(A) if a headset with a microphone is connected to the cue out, press and hold shift and the cue button to control it. press the cue button and turn select to access the different options. available options are:

- on / off - click to activate mic and turn to set volume
- gain - from 0 to +31 dB.
- fx - select mic effect.

(B) turn select to adjust the various settings. if there are multiple settings on one page, click select to cycle between them.

volume



on / off.
click to activate mic and turn to set volume.

gain / gate

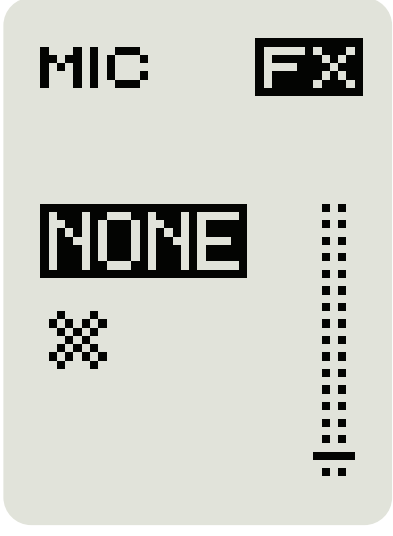
mic gain.
from 0 to +31 dB.
gate - mic gate on / off.

gain / duck

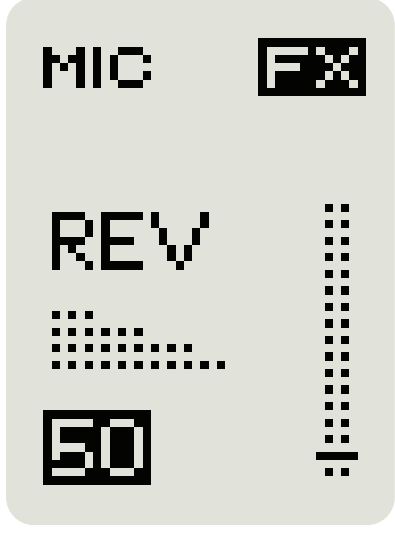
mic gain.
from 0 to +31 dB.
duck - ducking on / off

headset mic

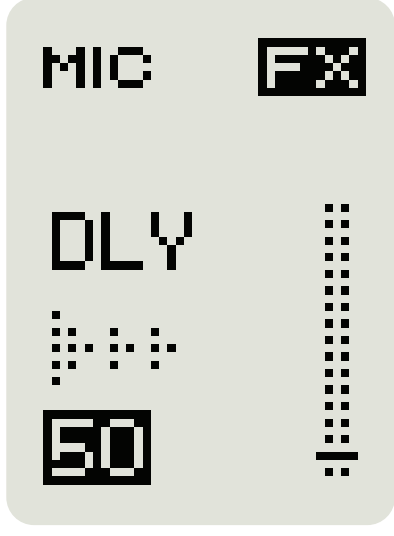
fx



fx - mic effect
none.



fx - mic effect.
reverb.
effect wetness
0-100.

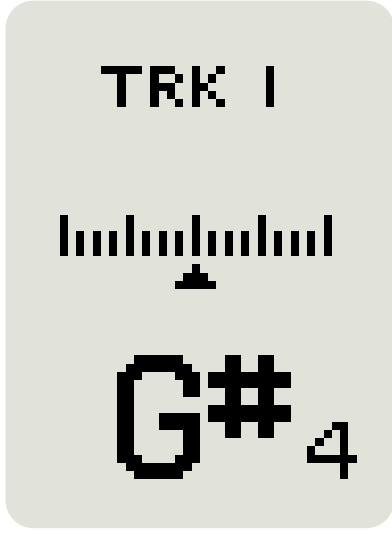


fx - mic effect
delay.
effect delay time
0-100.

instrument tuner

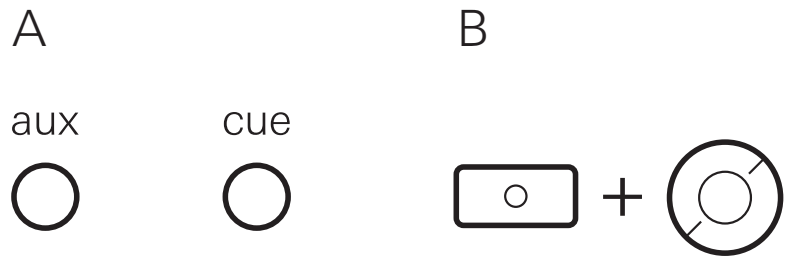
TX–6 features a tuner that allows you to check the pitch of any incoming audio signal and help you to tune your instruments.

choose input track by turning the select knob or use the track buttons. the pitch of your sound will be automatically detected and shown on the display.



tuner detecting pitch.

sync output



TX–6 can output sync signals over both aux and cue outputs. use this to sync pocket operators, modular systems, or any other compatible devices.

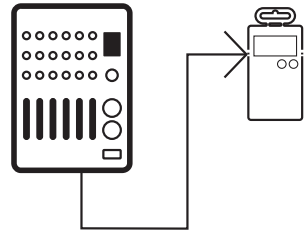
the left channel will have the sync signal. the right channel will have the audio signal.

note: the aux output has the strongest output signal so choose whatever works best for your setup.

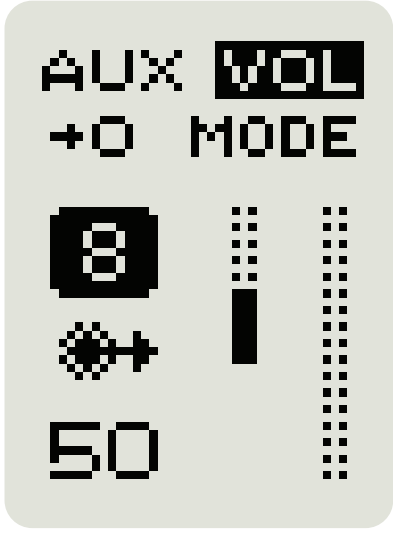
to enable sync output:

(A) press aux or cue, to access either of these pages.

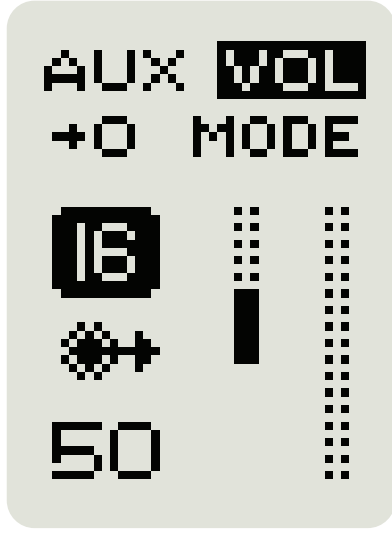
(B) hold shift and turn select to enable the desired sync signal



aux

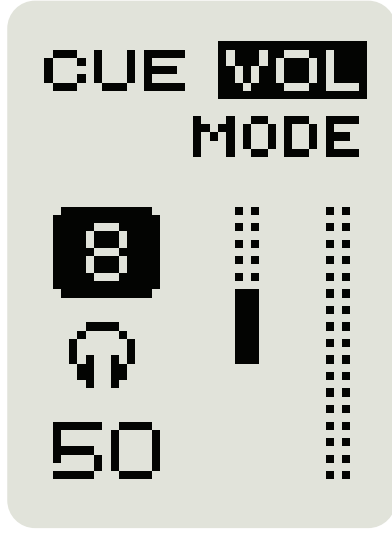


8th note sync screen. this is great for pocket operators.

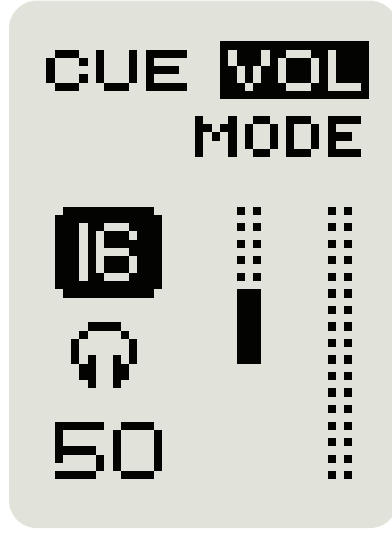


16th note sync screen. this is great for modular synths.

cue



8th note sync screen. use this for pocket operators.



16th note sync screen. use this for modular synths.

out

since the aux jack can deliver a stronger output signal than the cue jack, their functions can be switched. use this for example to drive high impedance headphones.

normal mode.

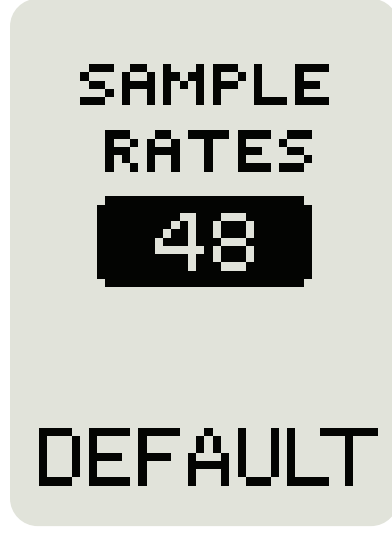
switched mode.

sample rate

to maximize compatibility with other devices TX–6 supports usb audio in 24-bit 44.1 kHz format.

the default setting is 48 kHz only. use this option for the highest quality audio.

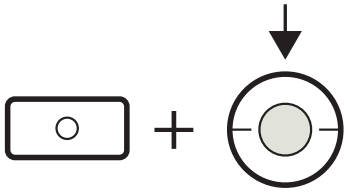
the multi setting lets the audio host choose between 48 kHz and 44.1 kHz sample rates. use this option for extended compatibility



default:
48 kHz

multi:
48 kHz / 44.1 kHz

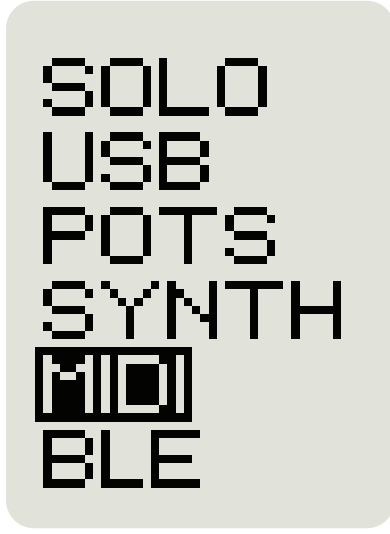
system menu



press shift + select to show the system menu, then turn the knob to scroll through the menu. click select to choose a setting page.

when on a setting page, turn select to adjust the value and press to move onto the next setting on the page (if there is one).

press shift to exit back to the home screen.



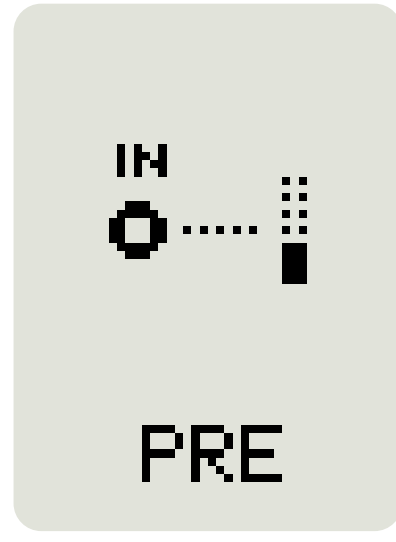
system menu. click select to access menu items.

SOLO
USB
POTS
SYNTH
MIDI
BLE
TUNER
DJ
MEMO
LIMITER
VU
LEDS
DISP
THEME
NAME
GND
VER
BAT_
RESET

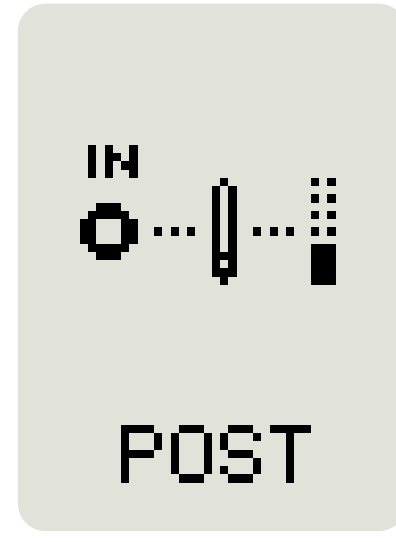
vu meter

the vu meters can be configured to show pre- or post-fader channel activity.

pre-fader metering can be handy to show input levels when setting up for recording, while post fader metering can be great for when mixing or performing. it’s all a matter of personal taste, how you want your levels visualized.



vu meter settings pre fader.

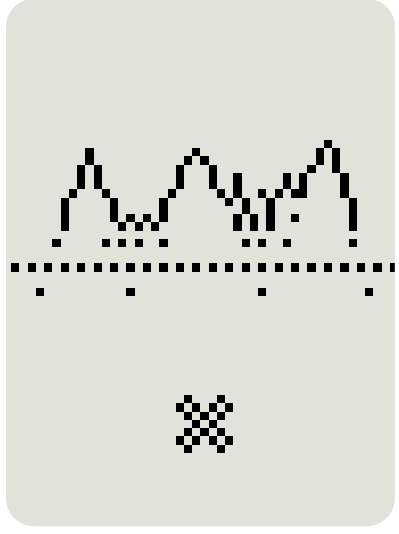


vu meter settings post fader.

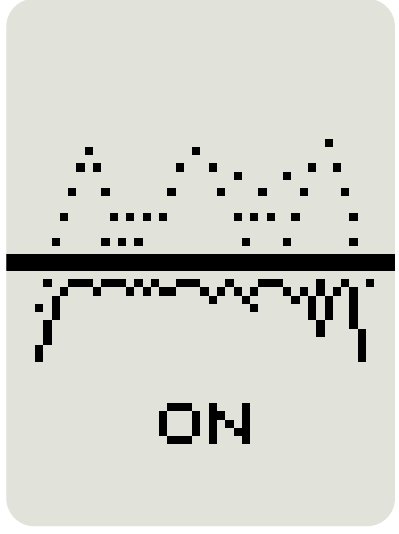
limiter

the limiter can be turned on or off and prevents TX–6 from clipping the master mix. hold shift and press select, scroll to limiter and press the button again to enter this setting. toggle the limiter on or off by turning select.

confirm by pressing select and press shift to exit to the home screen.



limiter off.



limiter on.

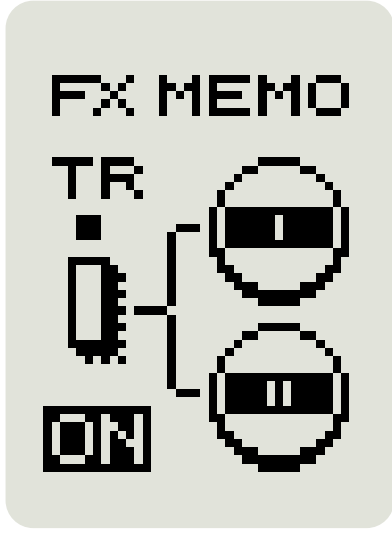
memory presets

if activated from the system menu, the FX buttons can be used to store and instantly recall effect settings.

when in the track menu, hold shift and hold FX button I or II to save current track settings (eq and filter). the display will indicate that the memory slot was saved.

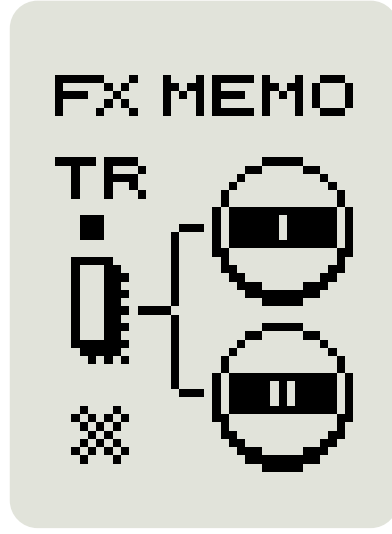
the saved settings can be recalled by pressing the same FX button (without shift this time). the preset is only active when the FX button is held.

on



track memory on.

off



track memory off.

usb

the usb setting in the system menu selects usb audio routing options. these modes are available:

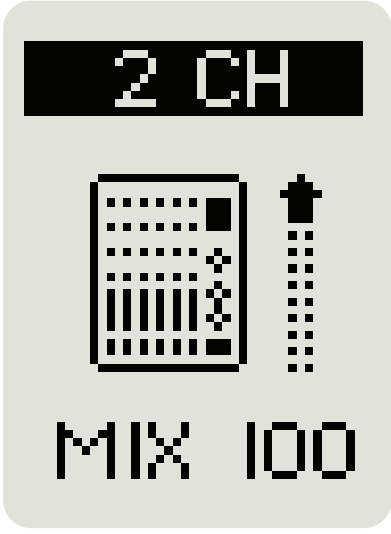
- 2 ch - main mix, send & receive.
- 12 in - multichannel usb input, mixed with analog inputs, main mix stereo output.
- 12 out - multichannel outputs post faders, stereo input to main.

press select for additional settings and rotate to adjust. main out source:

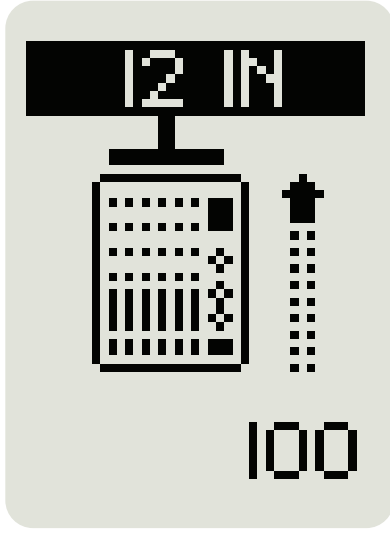
- ext - usb input overrides main output.
- mix - the signals are mixed together.

output volume:

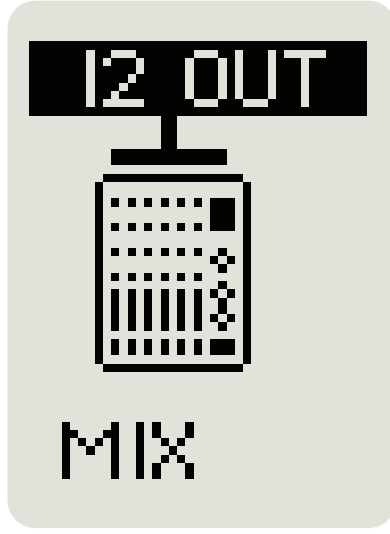
- adjusts volume of main mix usb output to prevent clipping.



2 ch:
2 + 2 channel interface. main mix, send and receive.



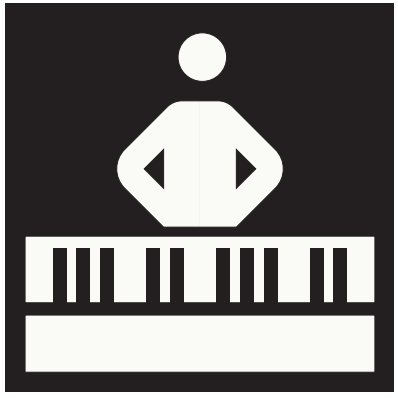
12 in:
12 channel usb input, mixed with the analog inputs.



12 out:
12 channel usb output. great for multitracking to a daw.

pro-tip: TX–6 is MFi certified, meaning you can connect it directly to your iPhone® using any standard usb-c to lighting cable. (no camera connection kit required!)

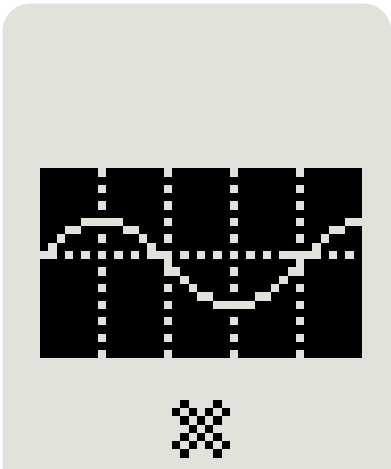
synth mode



in synth mode, each channel becomes a configurable sound generator, mixed with any input signal. there are four options for this mode and additional synth settings.

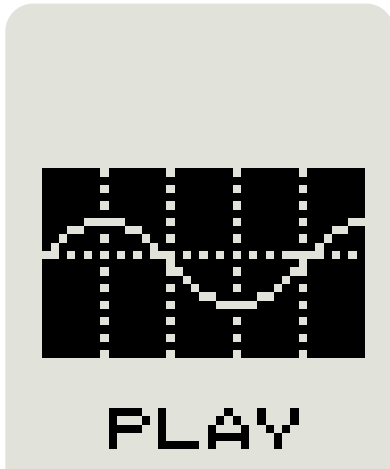
- off - synth mode is off.
- play - trigger sounds using the track buttons.
- seq - playing a sequenced pattern, selectable from track settings.
- tone - oscillators always on.

off



off:
synth mode is off.

play

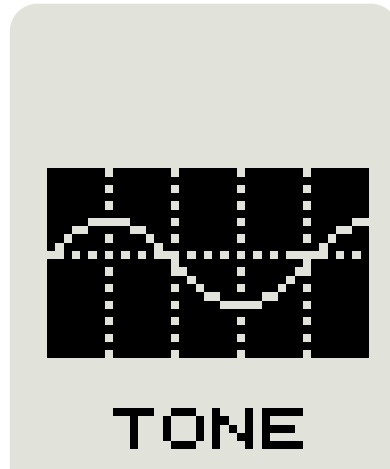


play:
trigger sounds using the track buttons.

seq

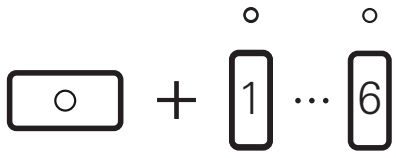
seq:
playing patterns from the track settings.

tone



tone:
oscillators are always on.

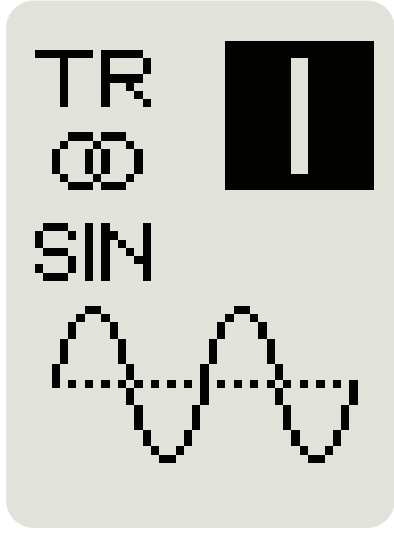
synth settings



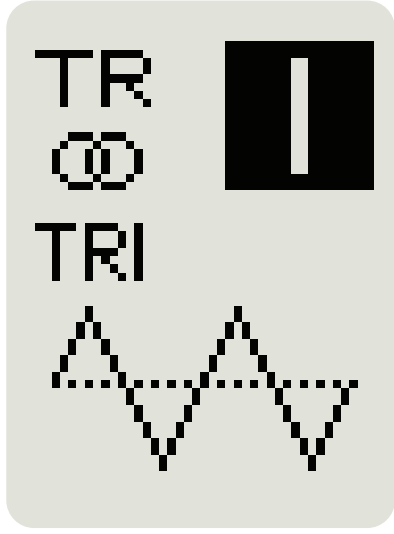
when synth mode is active there are a few extra settings available per track. hold shift and repeatedly press a track button to access this.

- sound - select which waveform or synthesis sound you want.
- frequency - adjust the synthesis frequency / tone.
- length - adjust synthesis length / decay.
- seq - select which sequencer pattern to use.

waveforms

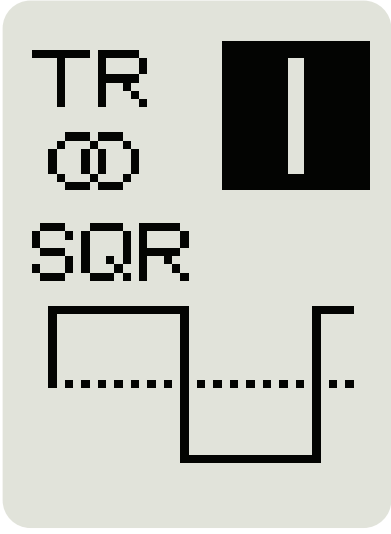


waveform:
sine wave.

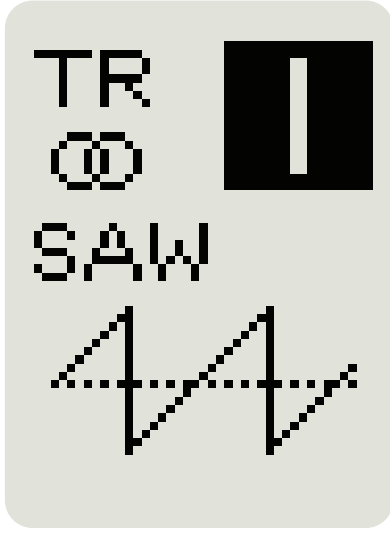


waveform:
triangle wave.

waveforms

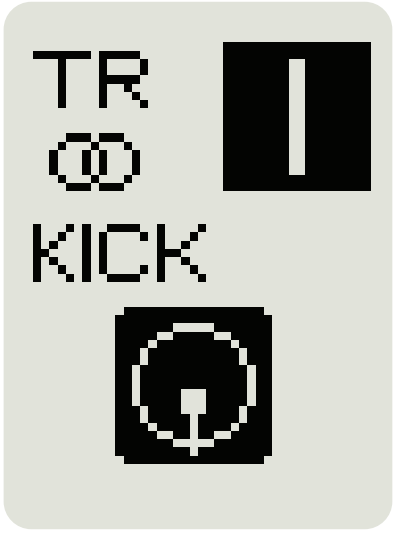


waveform:
square wave.

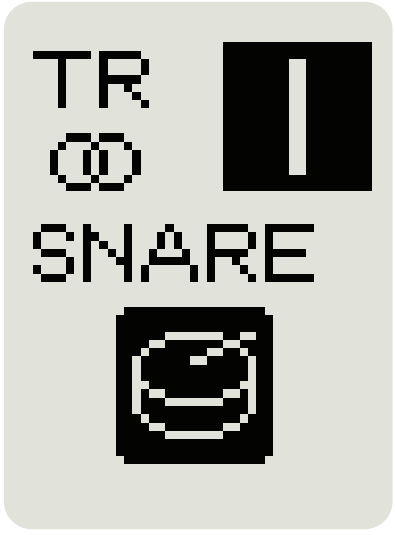


waveform:
saw wave.

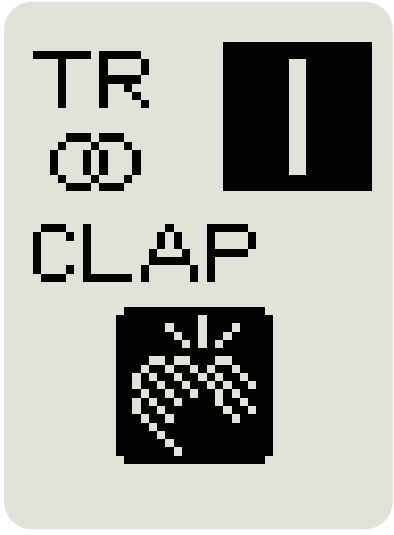
synthesis



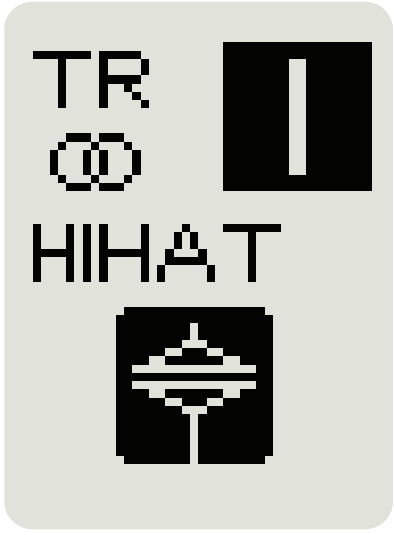
synthesis:
kick drum.



synthesis:
snare drum.

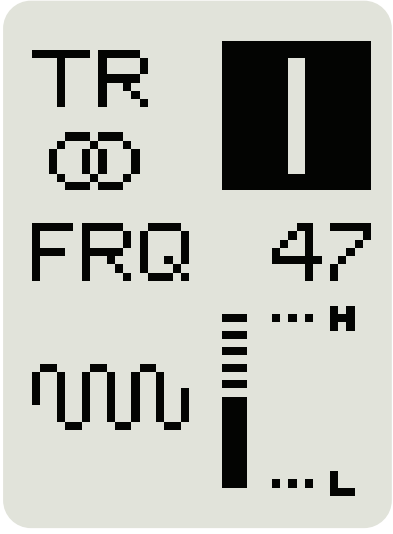


synthesis:
hand clap.



synthesis:
hi hat.

frequency

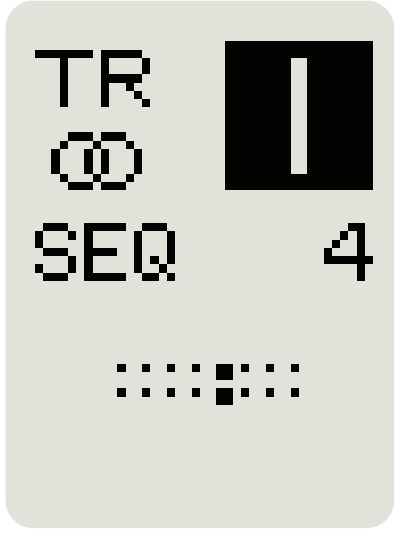


individual frequency / note control per track.

length

synthesis length or decay adjust.

sequence



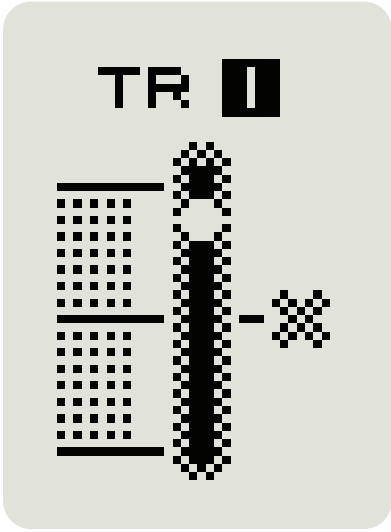
trigger sequence pattern choice.

dj mode

dj mode lets you turn TX–6 on its side and use it as a dj mixer. when activated, channel 1 is disabled and its fader is instead used to crossfade between the channel 5 and 6 inputs, allowing you to fade or cut between the two.

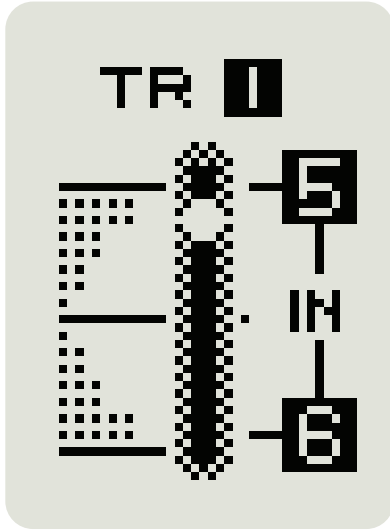
connect your headphones in the cue output and you've got yourself a very handy setup.

off



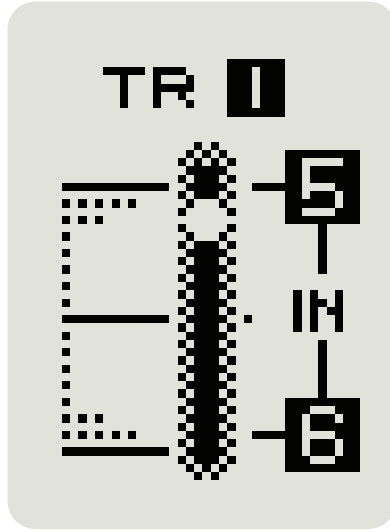
crossfade mode for track 1 is off.

slow fade

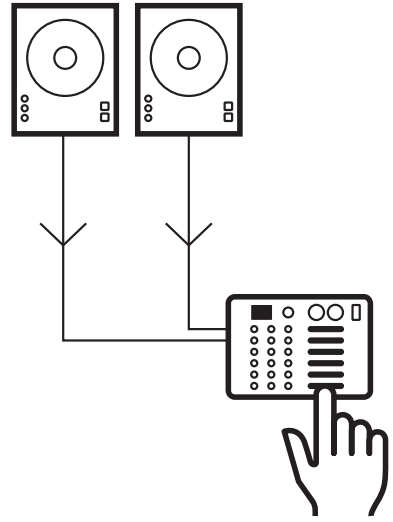


slow fade. dj style crossfade between channel 5 and 6.

fast cut



fast cut. dj style crossfade between channel 5 and 6.

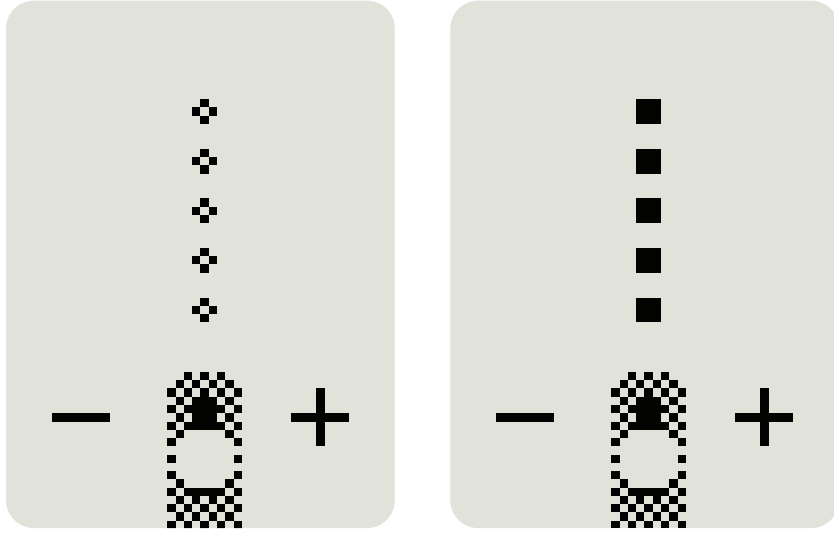


pro-tip: you can rotate the mixer 90 degrees to get that dj feeling.

led settings

the led brightness can be adjusted to your liking. select leds from the system menu and turn select to dim or brighten the led intensity. there are three levels of intensity to choose from. you may want to turn it down in low-light environments and turn it up during sunny field work.

press shift to exit.



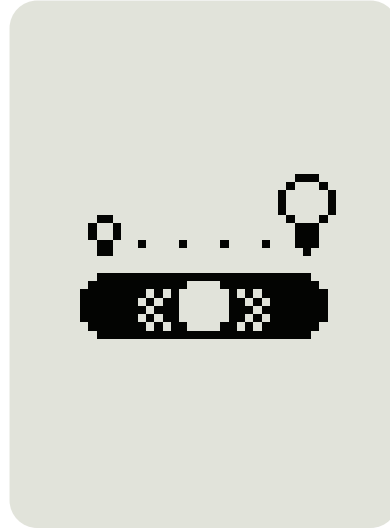
led settings.
turn select to
adjust intensity.

brightness and theme

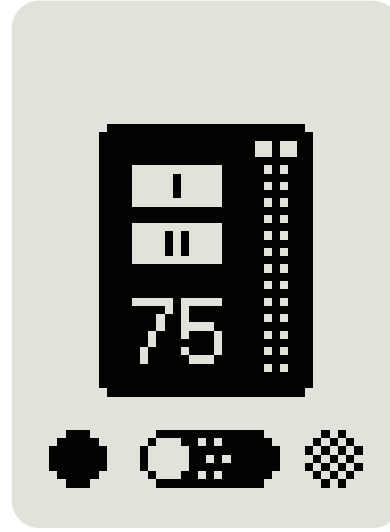
you can adjust display brightness in the system menu. hold shift and press select, then scroll down to disp. press select again and you can now turn to adjust the brightness of the display.

choose theme from the system menu and turn the select knob to toggle light or dark mode.

press shift to exit to the home screen.



display brightness dimmed / full.



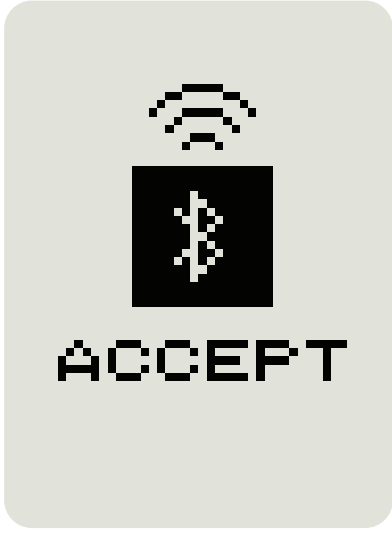
dark mode example.

ble (bluetooth)

TX–6 can accept connections from bluetooth le midi devices. bluetooth is disabled by default, so to accept bluetooth connections, enable ble in the system menu.

if there are multiple TX-6 units nearby you can rename your device to avoid confusion. the ble device name can be set in the name system menu. this will be the advertised name over the ble protocol.

device

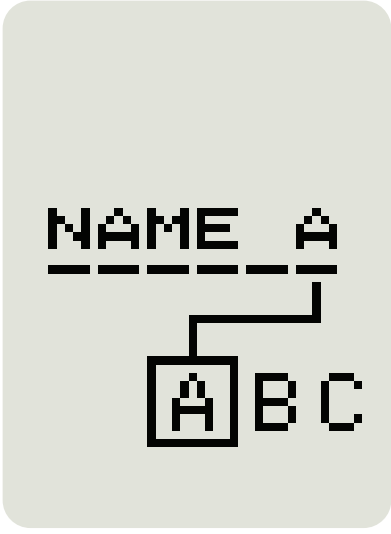


ble is on and accepting connection requests from ble midi hosts.

host

scanning for ble midi devices and connect to the one with the strongest signal.

name



turn to choose letters and press select to advance.

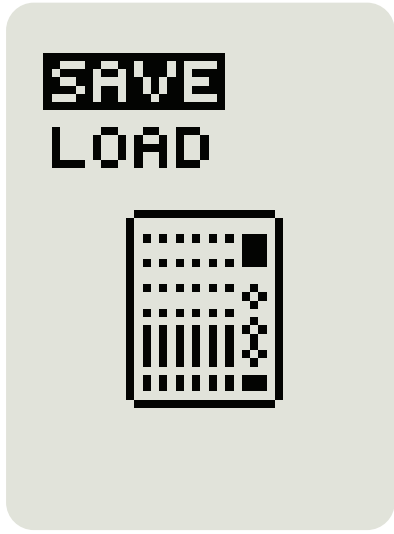
pro-tip: choose name from the system menu to rename your TX–6.

scene

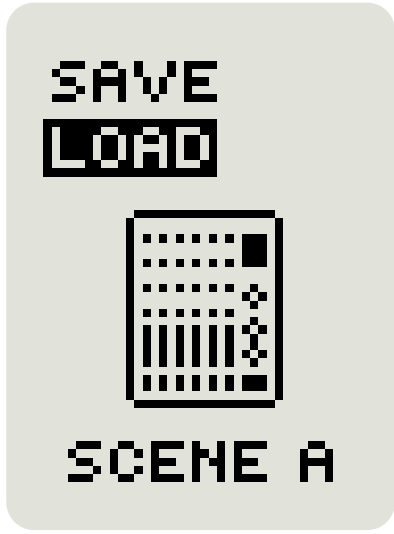
scene allows you to save and recall all TX–6 settings in three different scenes (a, b and c), to instantly switch between your various mixing needs.

scenes can be loaded from the menu, or by using midi program change messages, when midi input is enabled.

you can also use scene to backup all TX–6 settings before a firmware update.



save scene
a, b or c.

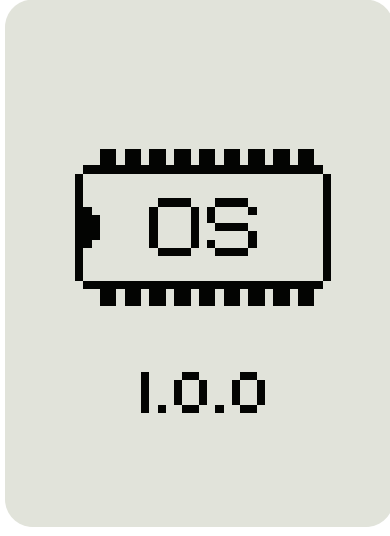


load scene
a, b or c.

gnd

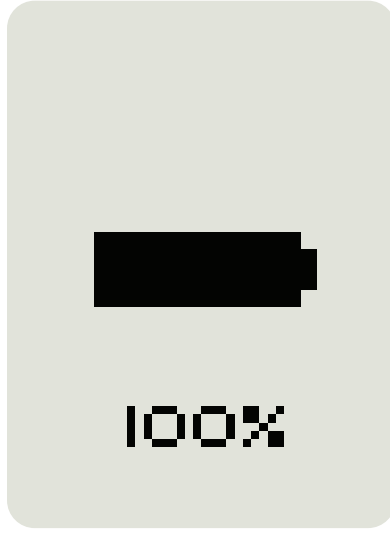
the gnd setting can be used to eliminate any usb ground loop noise.

os version



firmware version information.

battery



battery level / charging display.

reset

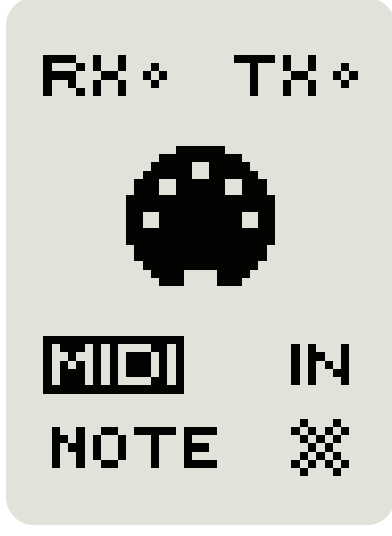
factory reset function. turn clockwise to confirm.

midi

TX–6 can send and receive midi control change (cc) messages over usb and ble interfaces, as well as midi clock and transport control. turn and tap select in the midi menu to navigate to your desired settings. press shift to exit.

please see the online guide for a detailed description of the latest midi implementation.

midi in

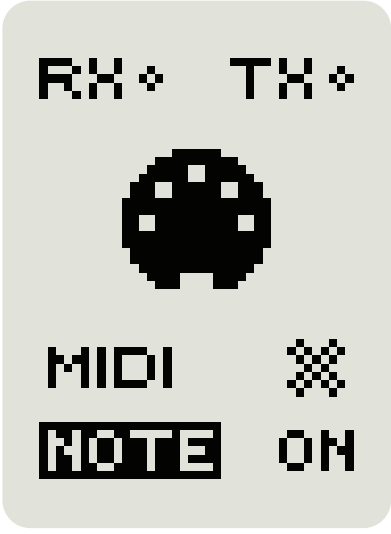


in: enables midi cc and program change, in to TX–6.

midi out

out: sends midi cc out of TX–6, whenever a knob, fader or button is moved or pressed.

note on



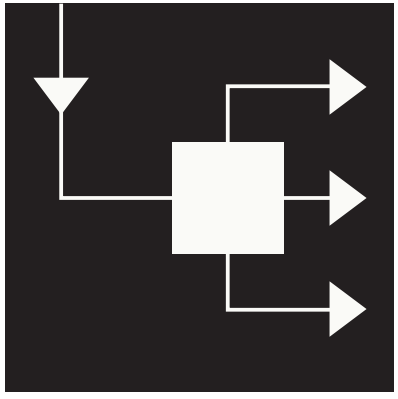
note on enables incoming midi notes, for use with the built-in synthesizer.

note off

midi off and note off disables all incoming and outgoing midi.

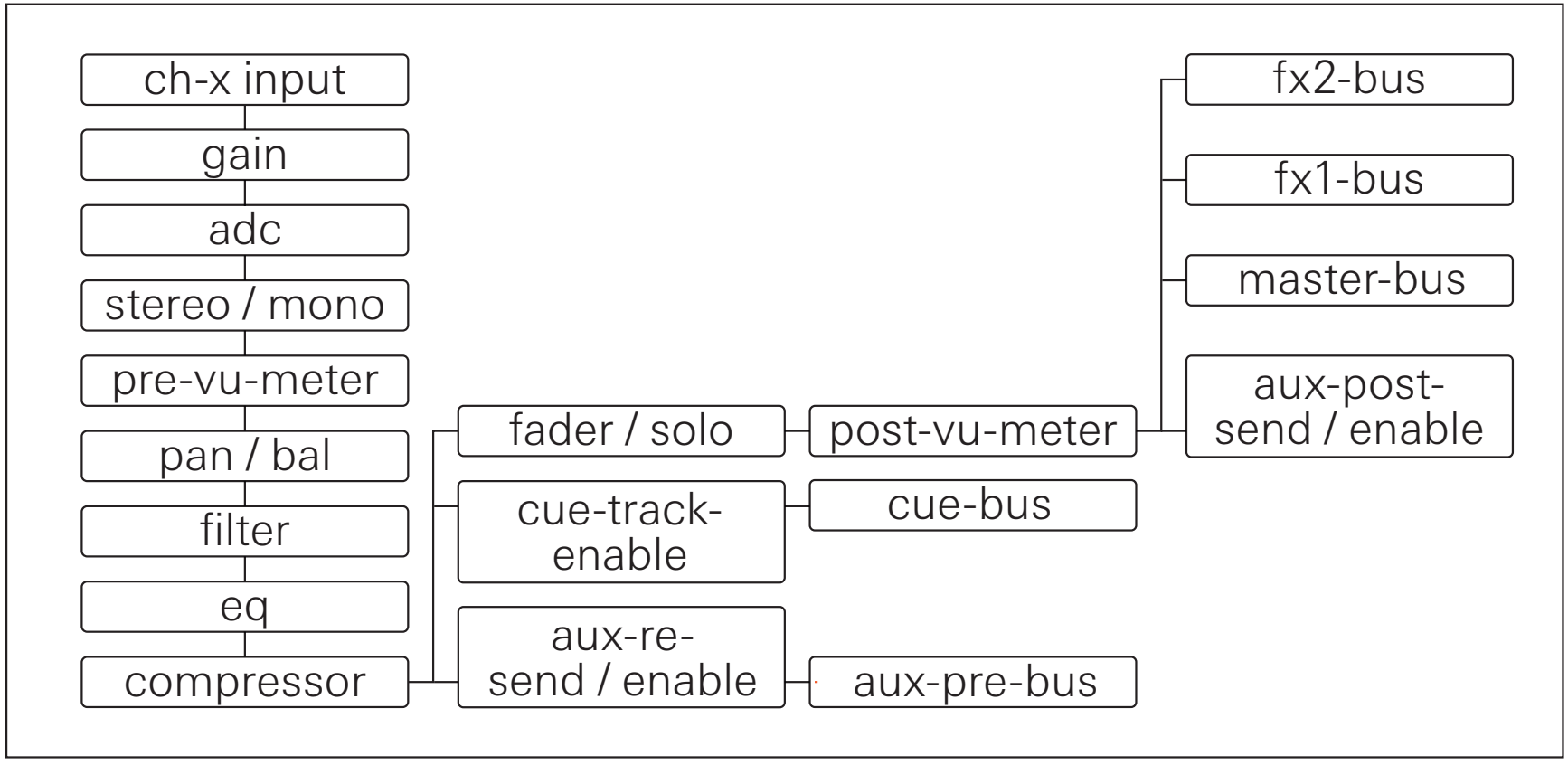
pro-tip: when using external midi control, the internal knobs and faders can be disabled with the midi command 'local control off'.

signal flow

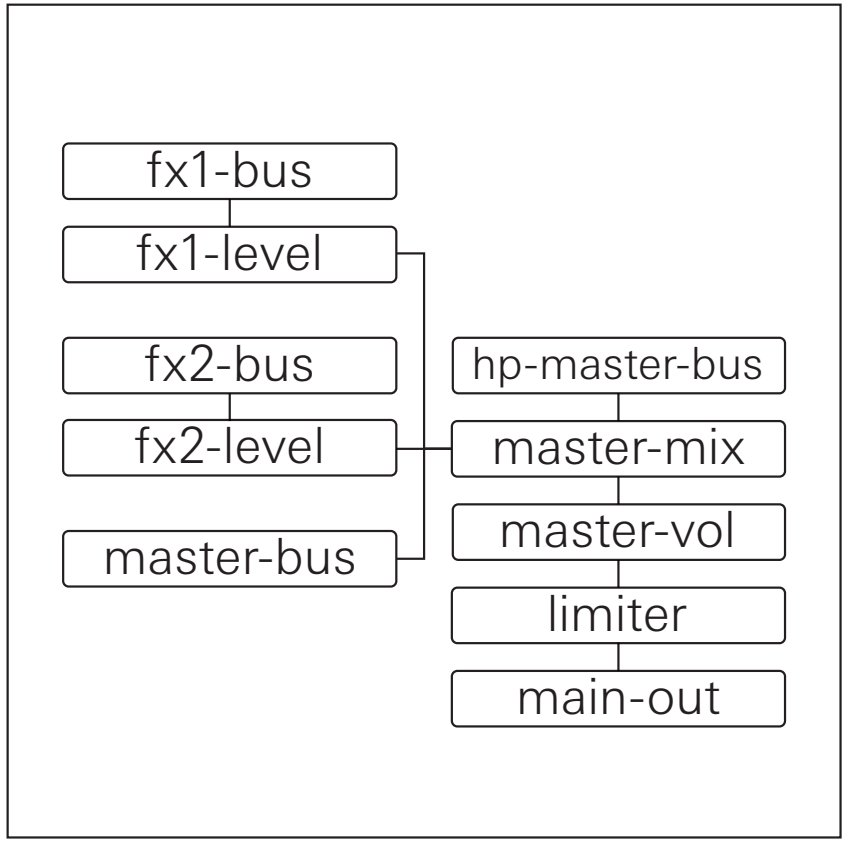


this is an overview of all the paths that the audio signal takes from input to output in TX–6 field mixer, to give you a basic understanding of what happens at the various stages of this process.

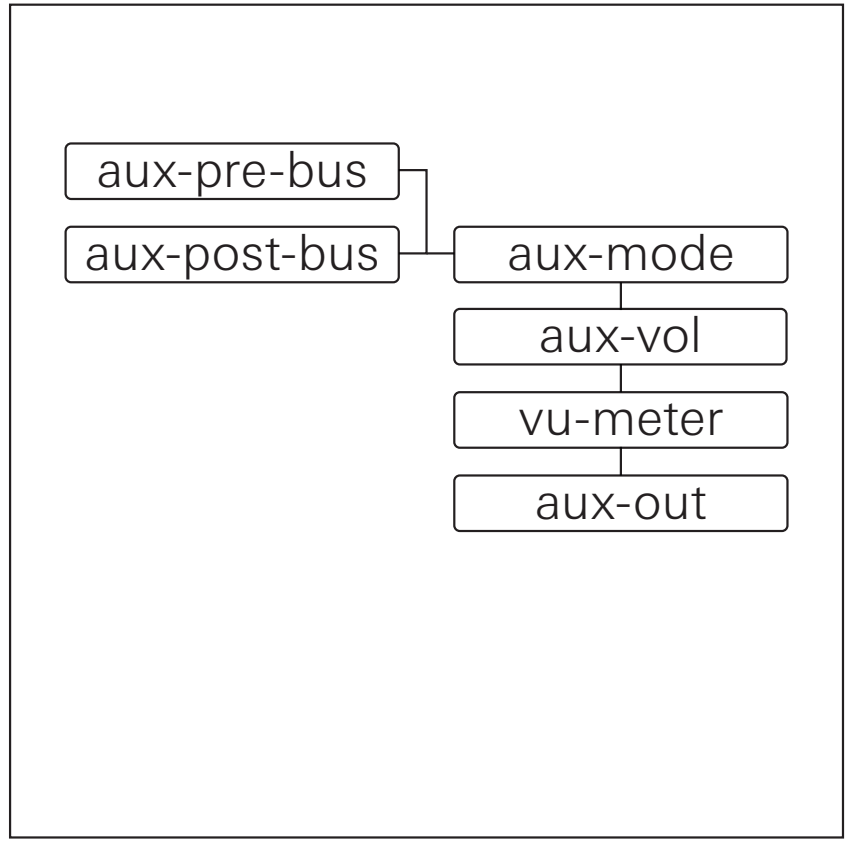
input channels



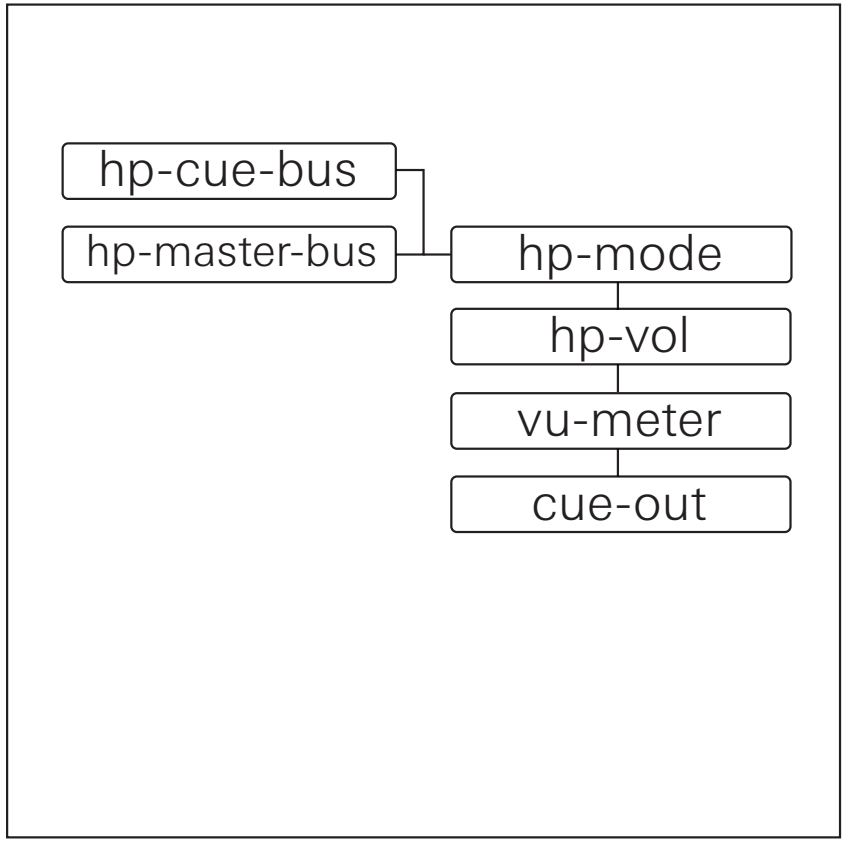
master


fx1-bus
fx1-level
fx2-bus
fx2-level
master-bus
hp-master-bus
master-mix
master-vol
limiter
main-out

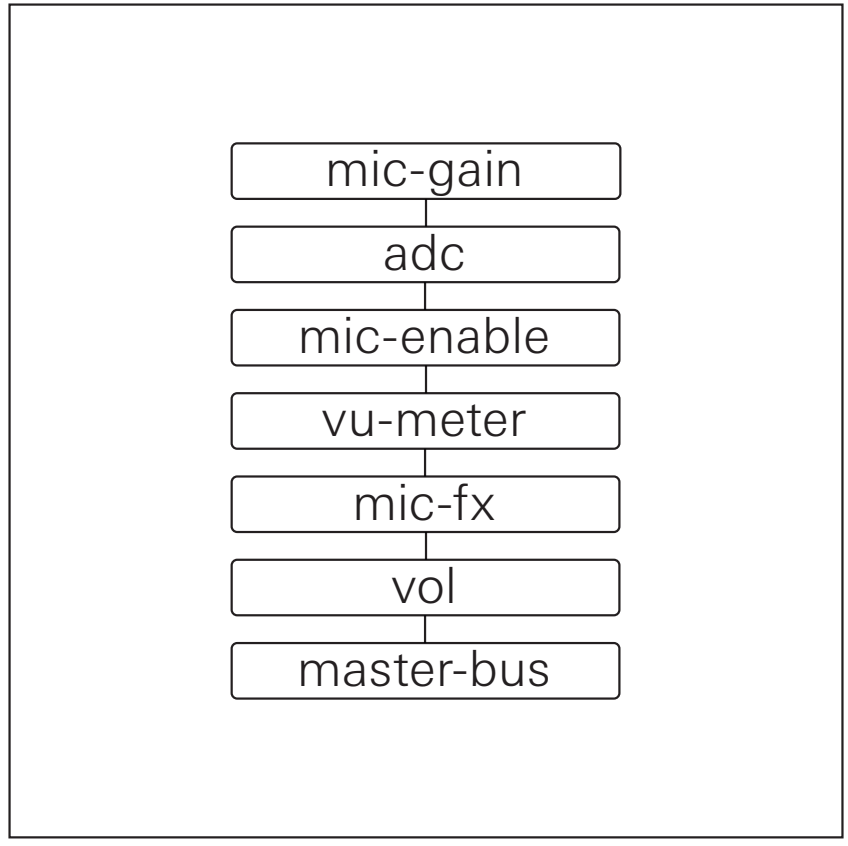
aux


aux-pre-bus
aux-post-bus
aux-mode
aux-vol
vu-meter
aux-out

headphones



microphone

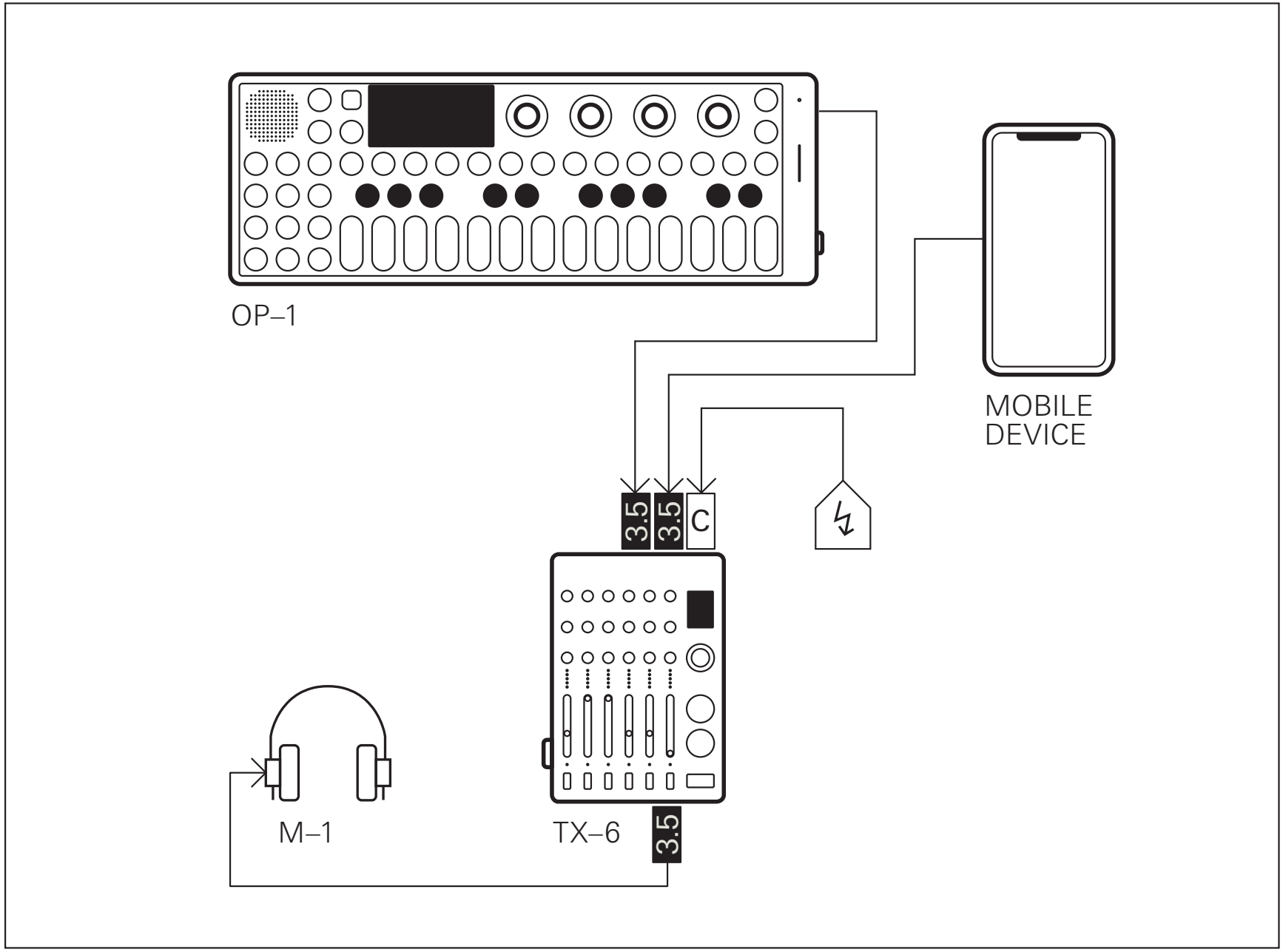


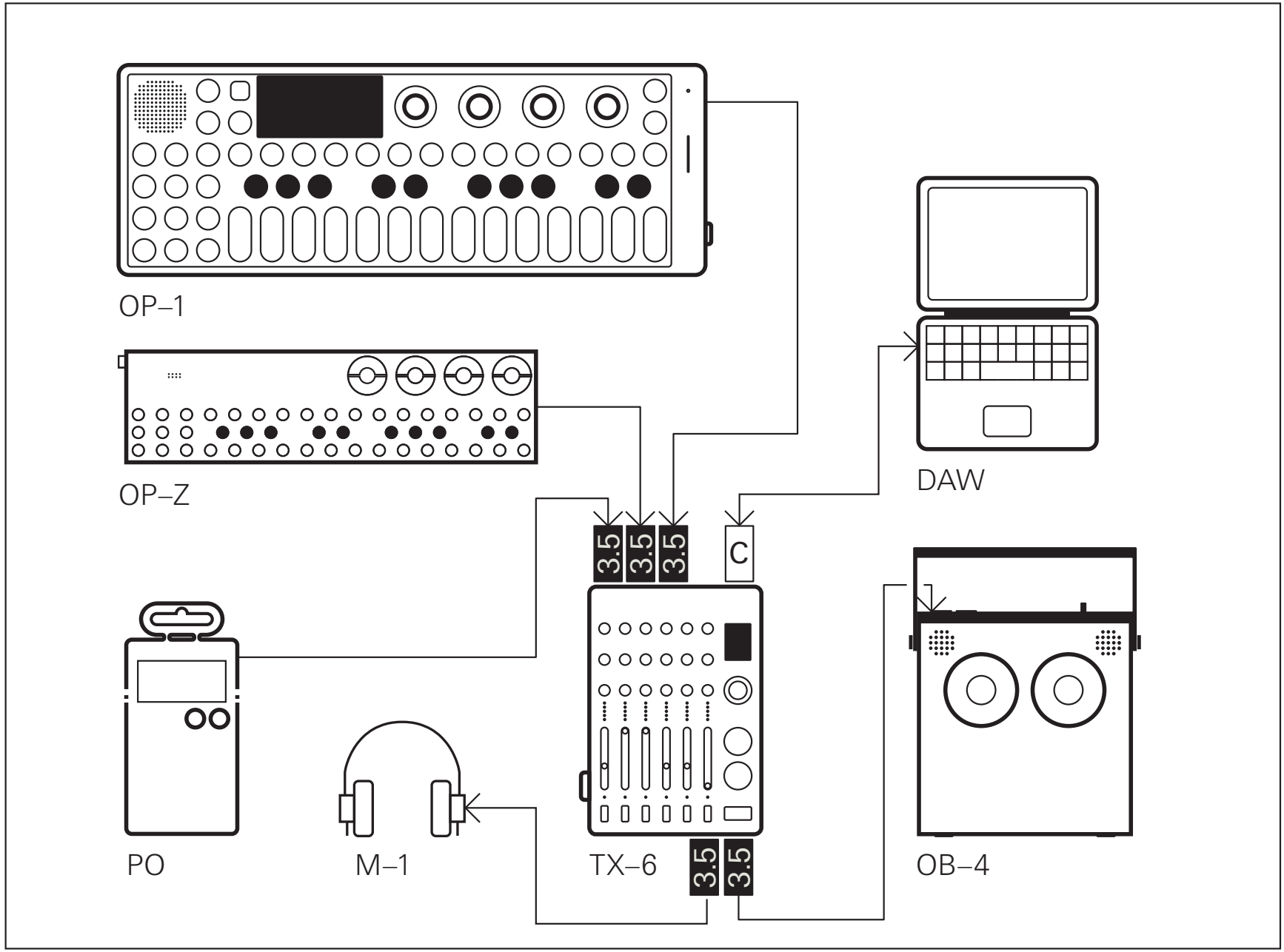
field

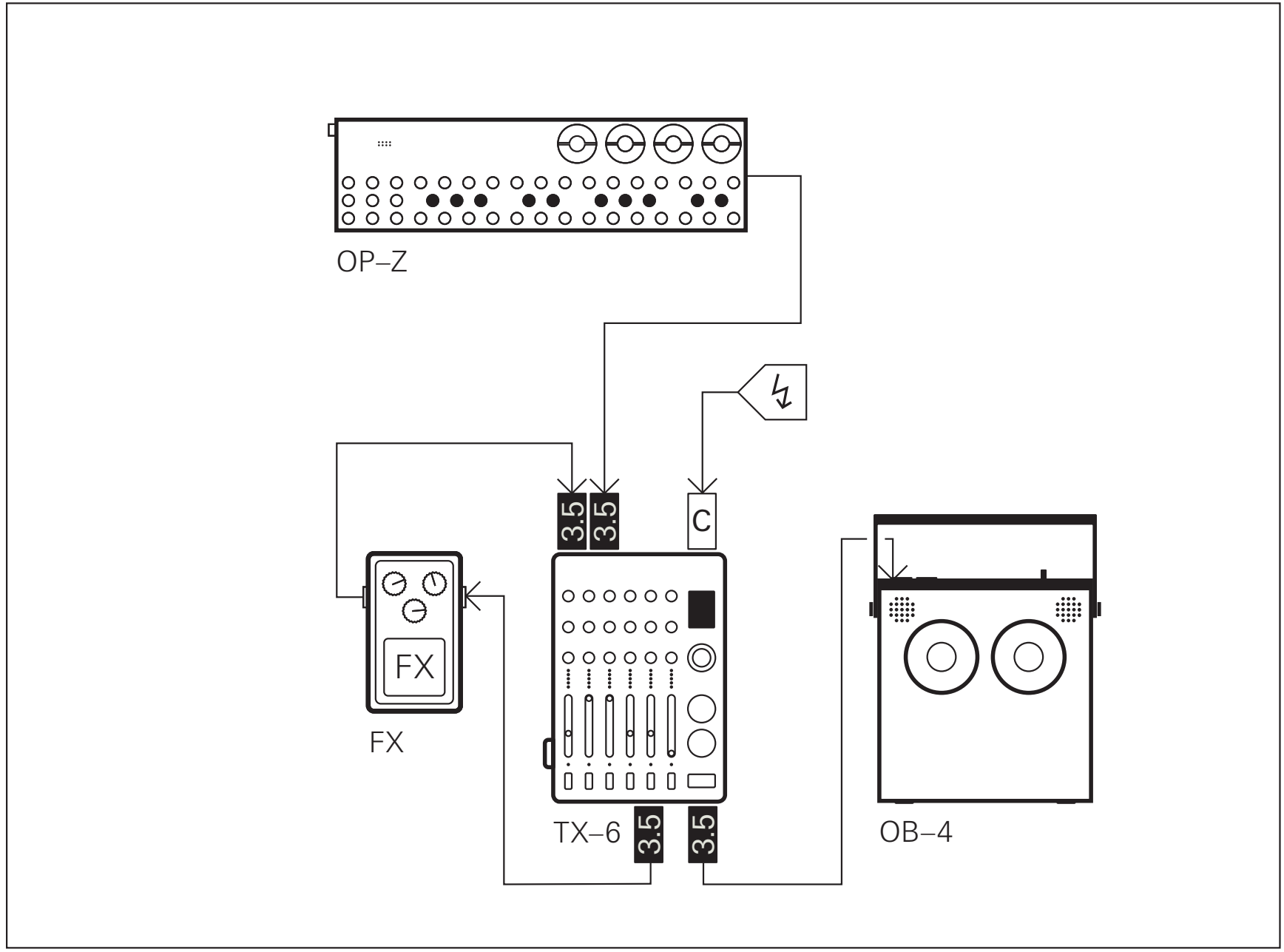
using TX–6 with other gear

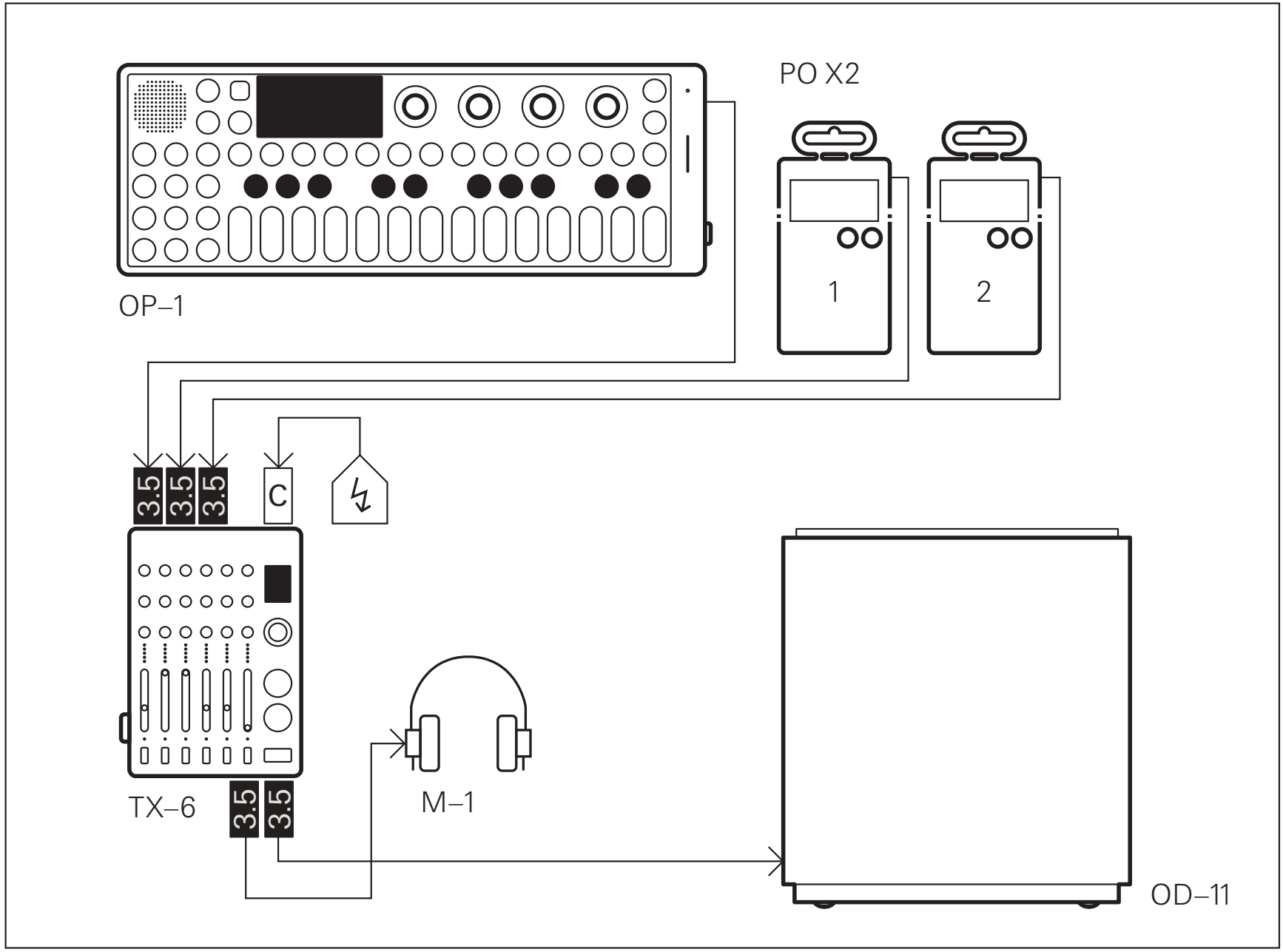
as with all teenage engineering products, TX–6 field mixer has been developed with portability and compatibility in mind.

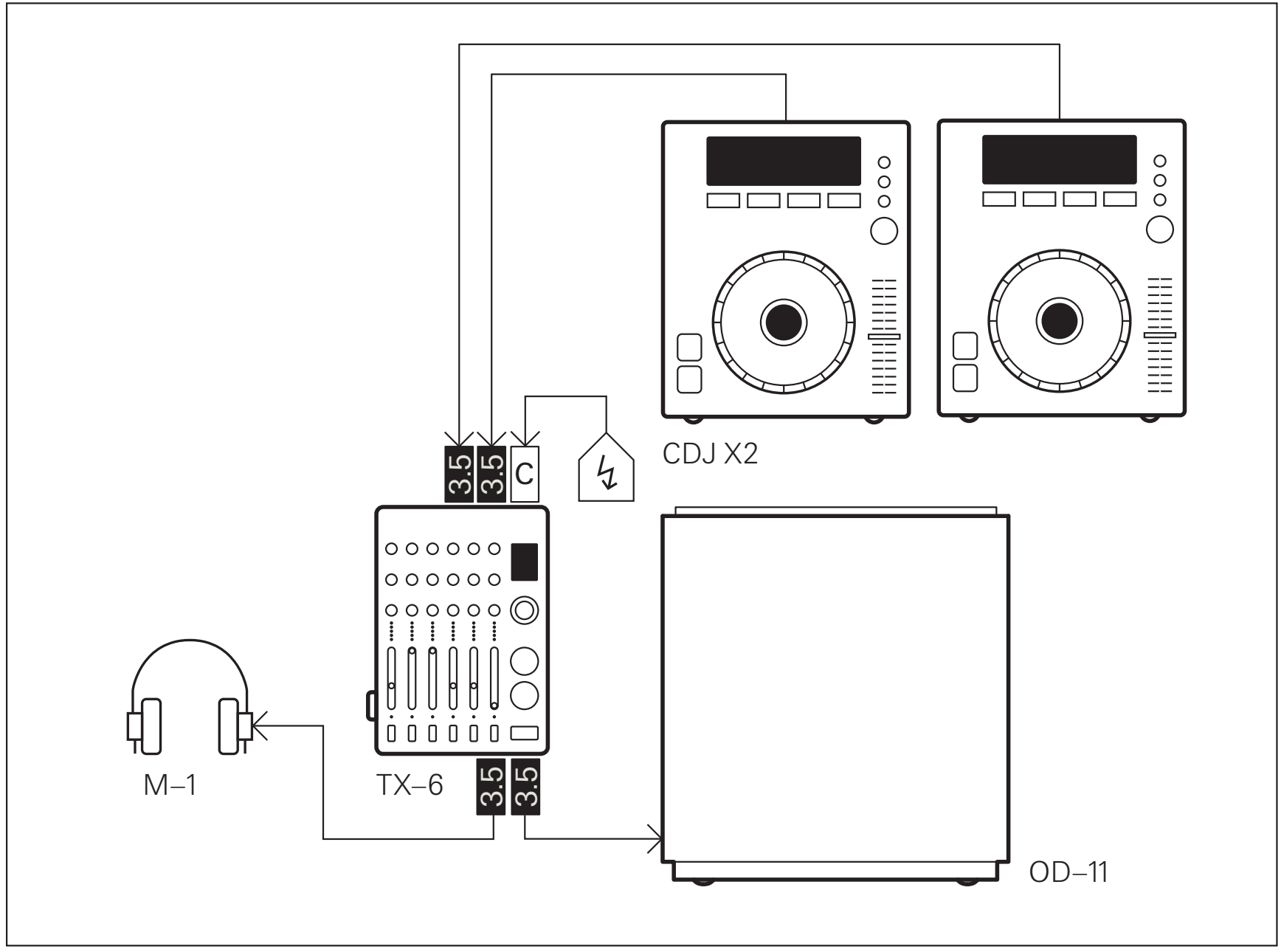
the following pages illustrate a variety of ways in which you can connect instruments such as OP–1, OP–Z, pocket operators and other compatible equipment to your TX–6.

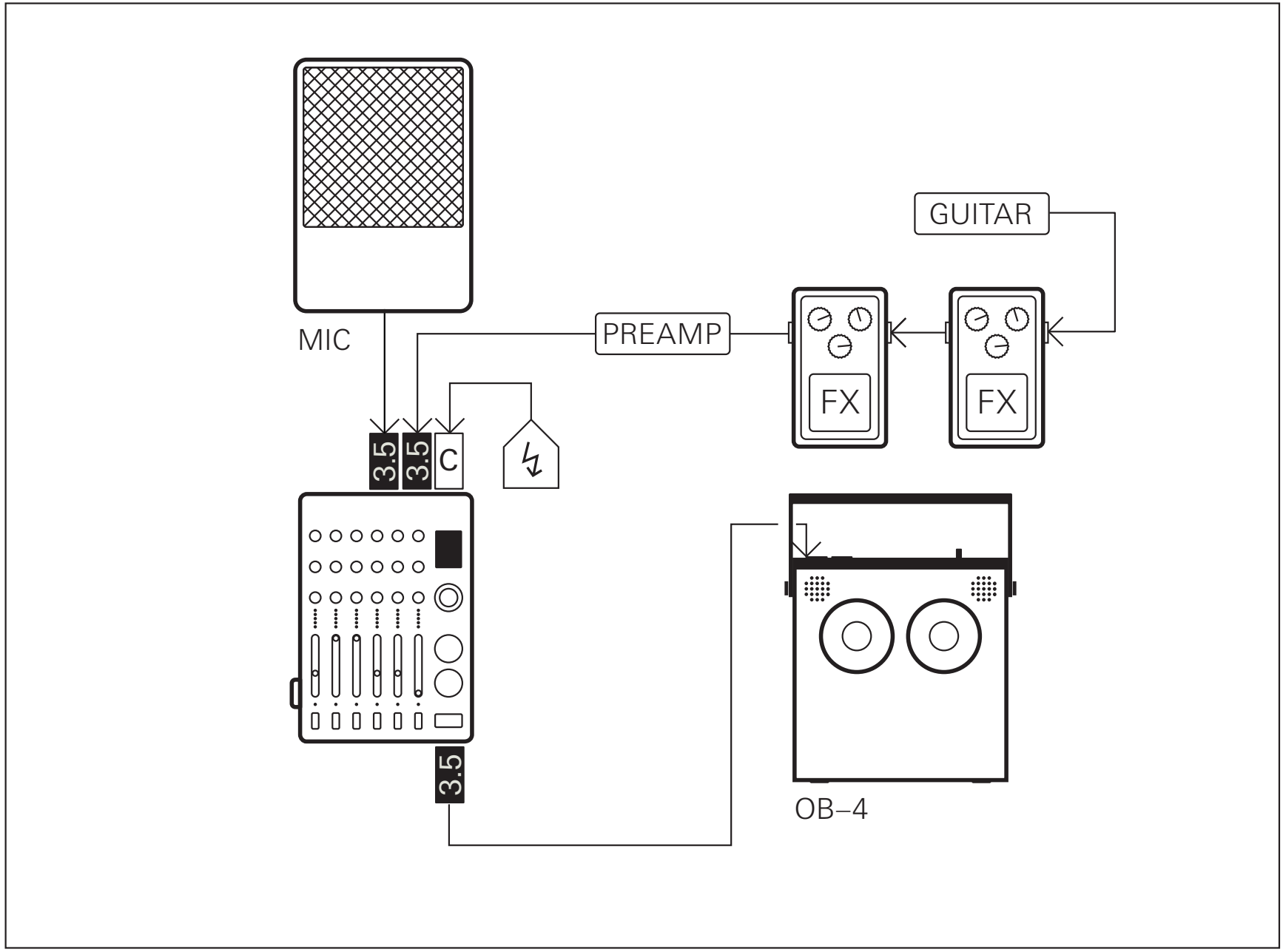

OP–1
MOBILE
DEVICE
3.5
3.5
C
M–1
TX–6
3.5

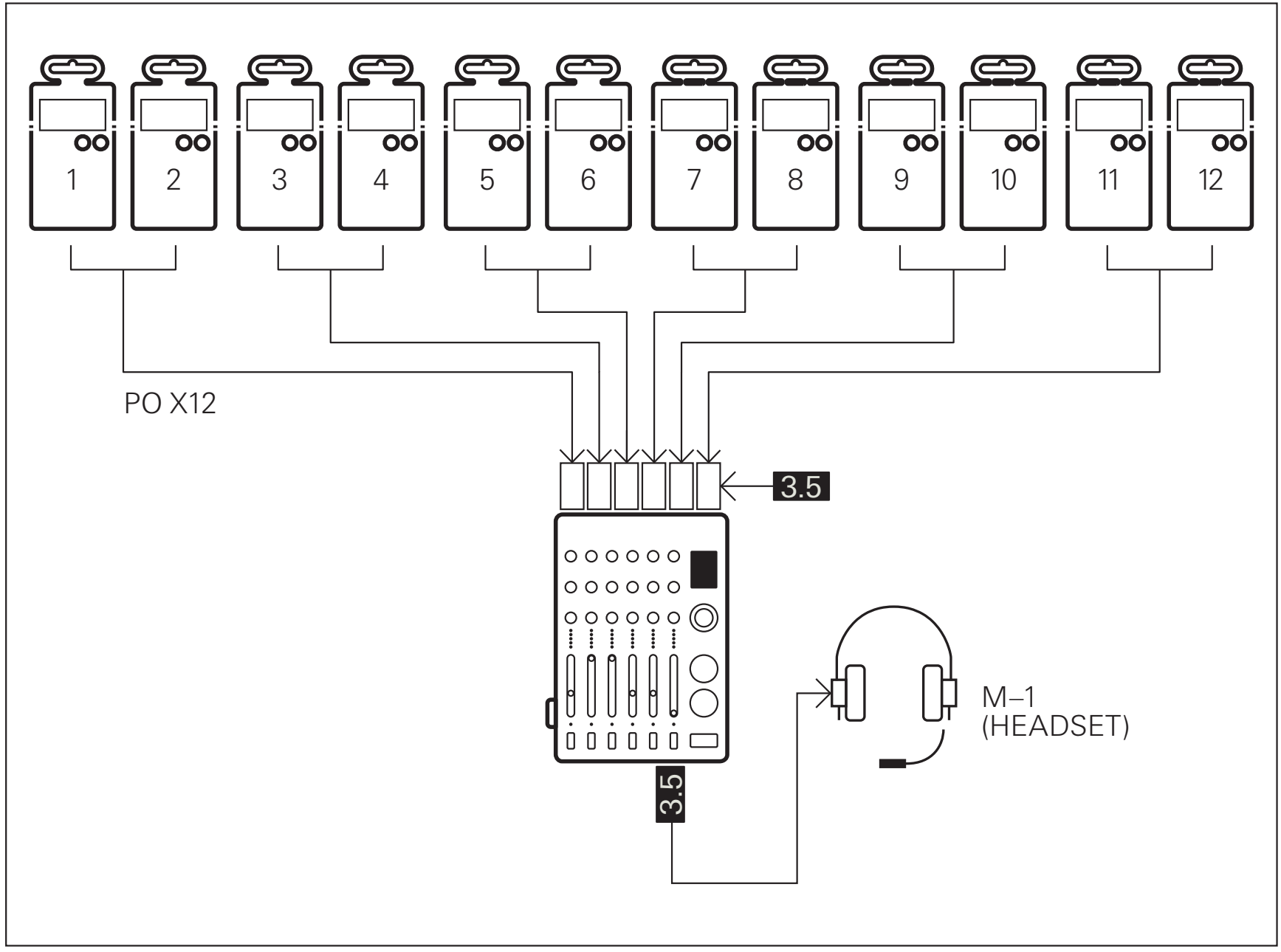

OP–1
OP–Z
DAW
3.5
3.5
3.5
C
PO
M–1
TX–6
3.5
3.5
OB–4


OP–Z
3.5
3.5
C
FX
FX
TX–6
3.5
3.5
OB–4

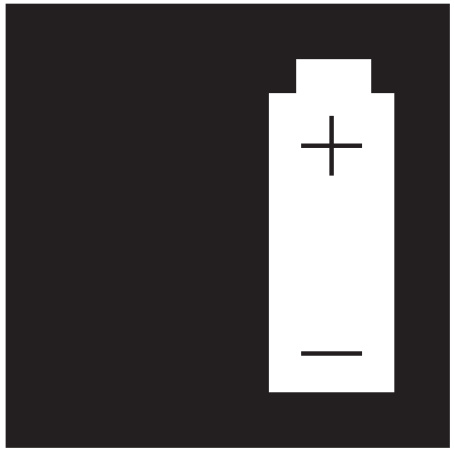

PO X2
1
2
OP–1
3.5
3.5
3.5
C
TX–6
3.5
3.5
M–1
OD–11


CDJ X2
3.5
3.5
C
TX–6
3.5
3.5
M–1
OD–11


GUITAR
MIC
PREAMP
FX
FX
3.5
3.5
C
3.5
OB–4


1
2
3
4
5
6
7
8
9
10
11
12
PO X12
3.5
3.5
M–1
(HEADSET)

technical specifications



- 6 stereo input connectors
- 2 stereo output connectors
- 1 stereo headphones connector with headset microphone support
- 24-bit/48kHz usb audio interface
- bluetooth low energy radio interface
- rechargeable battery
- 8 h battery life
- 48x64 pixel monochrome display

electrical characteristics

- audio inputs:
  impedance 10 kOhm
  analog gain 0 - 42 dB
  max level 8 dBu, 2 Vrms
  TLV320ADC3140 burr-brown™
  SNR ~ 102 dBA
- audio output (main and aux):
  max level 8 dBu, 2 Vrms
  cirrus logic masterhifi CS43131
  SNR > 120 dBA
- audio output (cue):
  max level 2 dBu, 1 Vrms
  cirrus logic CS47L35
  SNR > 110 dBA

handling

ambient working temperature:
0-50°C (32-122°F)

ambient storage temperature:
0-30°C (32-86°F)

clean the shell of the unit with a microfibre cloth. use pressurized air to remove dust from the faders.

to keep the battery healthy, the unit should be charged at least every 6 months. if not used for a long time, it may not charge again.

warnings and warranty

TEENAGE ENGINEERING TX-6
MODEL NO: TE028AS001

RISK OF EXPLOSION OR FIRE IF THE BATTERY IS REPLACED WITH INCORRECT TYPE. ONLY A BATTERY SUPPLIED BY TEENAGE ENGINEERING AND INSTALLED BY QUALIFIED PERSONNEL SHOULD BE USED. TO PREVENT POSSIBLE HEARING DAMAGE, DO NOT LISTEN AT HIGH SOUND LEVELS FOR LONG PERIODS.

FOR WARRANTY, SAFETY INSTRUCTIONS AND FULL REGULATORY INFORMATION, VISIT:
teenage.engineering/guides/tx-6

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES AND ISED CANADA’S LICENCEEXEMPT RSS(S). OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

MODIFICATIONS NOT EXPRESSLY APPROVED BY TEENAGE ENGINEERING COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

FCC ID: Z23028A
IC: 9915A-028A

avertissements et garantie

TEENAGE ENGINEERING TX-6
MODEL NO: TE028AS001

RISQUE D’EXPLOSION OU DE FEU SI LA BATTERIE EST REMPLACÉE PAR UN TYPE DE BATTERIE INCORRECT. SEULE UNE BATTERIE FOURNIE PAR TEENAGE ENGINEERING ET INSTALLÉE PAR UN PERSONNEL QUALIFIÉ DOIT ÊTRE UTILISÉE. AFIN D’ÉVITER TOUT DOMMAGE LIÉS À VOTRE AUDITION, IL EST RECOMMANDÉ DE NE PAS ÉCOUTER VOTRE MUSIQUE TROP FORT ET TROP LONGTEMPS.

POUR PLUS D'INFORMATIONS À PROPOS DE LA GARANTIE, LES INSTRUCTIONS DE SÉCURITÉS ET INFORMATIONS RÉGLEMENTAIRES, VISITEZ:
teenage.engineering/guides/tx-6

CET APPAREIL EST CONFORME À LA PARTIE 15 DES RÈGLES DE LA FCC ET LE PERMIS D'ISED CANADA NORMES RSS EXEMPTÉES. SON FONCTIONNEMENT EST SOUMIS AUX DEUX CONDITIONS SUIVANTES:

(1) CET APPAREIL NE DOIT PAS PROVOQUER D'INTERFÉRENCES PRÉJUDICIABLES, ET

(2) IL DOIT ACCEPTER TOUTE INTERFÉRENCE REÇUE, Y COMPRIS LES INTERFÉRENCES POUVANT ENTRAÎNER UN MAUVAIS FONCTIONNEMENT.

LES MODIFICATIONS NON EXPLICITEMENT APPROUVÉES PAR TEENAGE ENGINEERING PEUVENT CONDUIRE À ANNULER LES DROITS DE L'UTILISATEUR À UTILISER L'ÉQUIPEMENT.

FCC ID: Z23028A
IC: 9915A-028A

RF EXPOSURE COMPLIANCE

THIS EQUIPMENT COMPLIES WITH FCC/ISED RADIATION EXPOSURE LIMITS SET FORTH FOR AN UNCONTROLLED ENVIRONMENT. END USER MUST FOLLOW THE SPECIFIC OPERATING INSTRUCTIONS FOR SATISFYING RF EXPOSURE COMPLIANCE. THIS TRANSMITTER MUST NOT BE CO-LOCATED OR OPERATING IN CONJUNCTION WITH ANY OTHER ANTENNA OR TRANSMITTER.

THE PORTABLE DEVICE IS DESIGNED TO MEET THE REQUIREMENTS FOR EXPOSURE TO RADIO WAVES ESTABLISHED BY FCC/ISED. THESE REQUIREMENTS SET A SAR LIMIT OF 1.6 W/KG AVERAGED OVER ONE GRAM OF TISSUE. THE HIGHEST SAR VALUE REPORTED DURING PRODUCT CERTIFICATION FOR USE WHEN PROPERLY WORN ON THE BODY, WITH 0 MM SEPARATION, WAS 0.91 W/KG.

CONFORMITÉ D’EXPOSITION AUX RF

CET ÉQUIPEMENT EST CONFORME AUX LIMITES D’EXPOSITION AUX RAYONNEMENTS FCC/ISED ÉTABLIES POUR UN ENVIRONNEMENT NON CONTRÔLÉ. L’UTILISATEUR FINAL DOIT SUIVRE LES INSTRUCTIONS SPÉCIFIQUES POUR SATISFAIRE LES NORMES. CET ÉMETTEUR NE DOIT PAS ÊTRE CO-IMPLANTÉ OU FONCTIONNER EN CONJONCTION AVEC TOUTE AUTRE ANTENNE OU TRANSMETTEUR.

L'APPAREIL PORTABLE EST CONÇU POUR RÉPONDRE AUX EXIGENCES D'EXPOSITION AUX ONDES RADIO ÉTABLIES PAR L'ISED. CES EXIGENCES ÉTABLISSENT UN SAR LIMITE DE 1,6 W/KG EN MOYENNE POUR UN GRAMME DE TISSU ORGANIQUE. LA VALEUR SAR LA PLUS ÉLEVÉE SIGNALÉE LORS DE LA CERTIFICATION DE PRODUIT À UTILISER LORSQU’IL EST CORRECTEMENT PORTÉ SUR LE CORPS, AVEC UNE SÉPARATION DE 0 MM, EST 0.91 W/KG.

CAUTION

DO NOT TRY TO CHARGE OR USE A UNIT WITH A SEEMINGLY DAMAGED BATTERY.

ONLY A BATTERY SUPPLIED BY TEENAGE ENGINEERING INSTALLED BY QUALIFIED PERSONNEL SHOULD BE USED.

DISPOSAL OF A BATTERY INTO FIRE OR A HOT OVEN, OR MECHANICALLY CRUSHING OR CUTTING OF A BATTERY, THAT CAN RESULT IN AN EXPLOSION.

LEAVING A BATTERY IN AN EXTREMELY HIGH TEMPERATURE SURROUNDING ENVIRONMENT THAT CAN RESULT IN AN EXPLOSION OR THE LEAKAGE OF FLAMMABLE LIQUID OR GAS.

TO PREVENT POSSIBLE HEARING DAMAGE, DO NOT LISTEN AT HIGH SOUND LEVELS FOR LONG PERIODS.

STORE SMALL PARTS OUT OF THE REACH OF CHILDREN AND INFANTS. IF ACCIDENTALLY SWALLOWED, CONTACT AN EMERGENCY MEDICINE DOCTOR IMMEDIATELY

MADE FOR APPLE BADGE

USE OF THE MADE FOR APPLE BADGE MEANS THAT AN ACCESSORY HAS BEEN DESIGNED TO CONNECT SPECIFICALLY TO THE APPLE PRODUCT(S) IDENTIFIED IN THE BADGE AND HAS BEEN CERTIFIED BY THE DEVELOPER TO MEET APPLE PERFORMANCE STANDARDS. APPLE IS NOT RESPONSIBLE FOR THE OPERATION OF THIS DEVICE OR ITS COMPLIANCE WITH SAFETY AND REGULATORY STANDARDS.

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EU COMPLIANCE

HEREBY, TEENAGE ENGINEERING DECLARES THAT THE RADIO EQUIPMENT TYPE TX-6 IS IN COMPLIANCE WITH DIRECTIVE 2014/53/EU. THE FULL TEXT OF THE EU DECLARATION OF CONFORMITY IS AVAILABLE AT THE FOLLOWING INTERNET ADDRESS:

teenage.engineering/guides/tx-6

FREQUENCY BAND:
2400 - 2483.5 MHZ

MAXIMUM OUTPUT POWER:
10 DBM EIRP

UK COMPLIANCE

HEREBY, TEENAGE ENGINEERING DECLARES THAT THE RADIO EQUIPMENT TYPE TX-6 IS IN COMPLIANCE WITH RADIO EQUIPMENT REGULATIONS 2017. THE FULL TEXT OF THE UK DECLARATION OF CONFORMITY IS AVAILABLE AT THE FOLLOWING INTERNET ADDRESS:

teenage.engineering/guides/tx-6

RECYCLING

ELECTRICAL AND ELECTRONIC EQUIPMENT, PARTS AND BATTERIES MARKED WITH THIS CROSSED-OUT WHEELIE BIN SYMBOL MUST NOT BE DISPOSED OF WITH NORMAL HOUSEHOLD WASTAGE, IT MUST BE COLLECTED AND DISPOSED OF SEPARATELY TO PROTECT THE ENVIRONMENT. THIS PRODUCT CONTAINS A BUILT IN LI ION BATTERY.

TEENAGE ENGINEERING AB
TEXTILGATAN 31
120 30 STOCKHOLM
SWEDEN / SUÈDE

designed and
engineered by
teenage
engineering