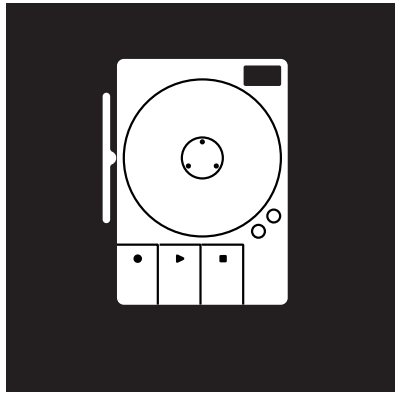
TP–7

field tape recorder
user guide

TP–7

introduction



TP–7 is an ultra-portable tape recorder, and the fourth 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 TP–7 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. TP–7 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

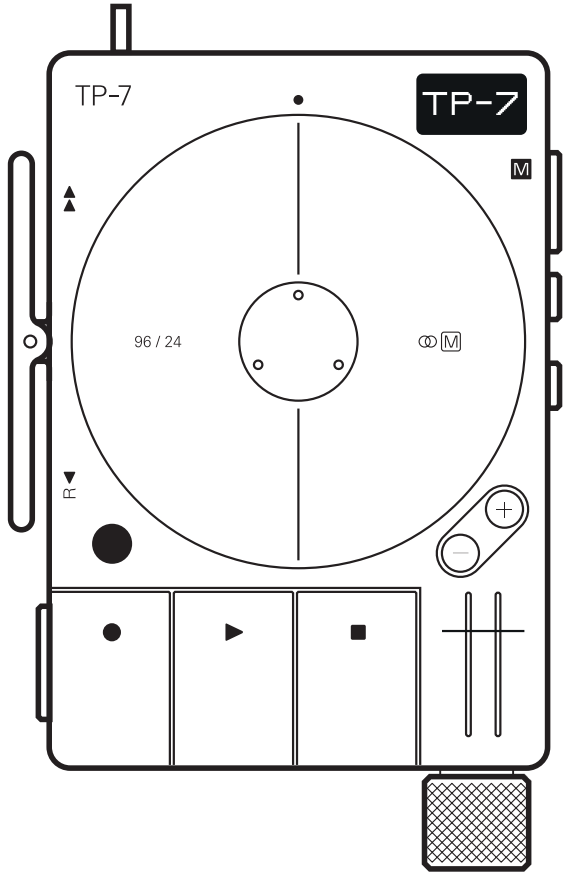
the latest version of this guide: teenage.engineering/guides/tp-7

hardware

TP–7 field recorder is made in durable aluminium, with pu synthethic leather backing and a custom made controls for all your portable recording applications. wheel and rocker. beyond being a recorder. 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 applications and general functions of your TP–7.

TP–7 highlights:

- ultra-portable pro recorder
- 3 trrs stereo input/headset mini jacks
- 1 main/headphones output
- usb audio / midi
- midi over usb-c and bluetooth le
- 8 hour rechargeable battery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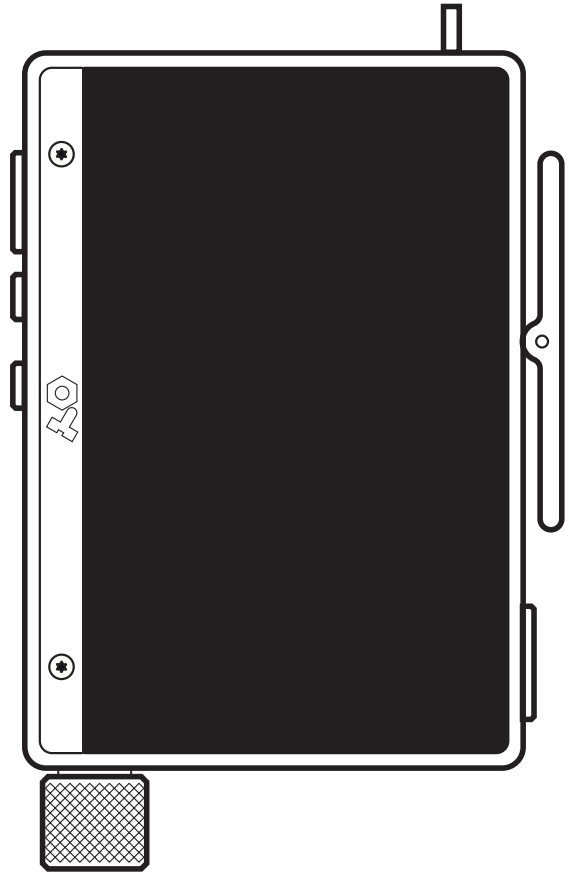
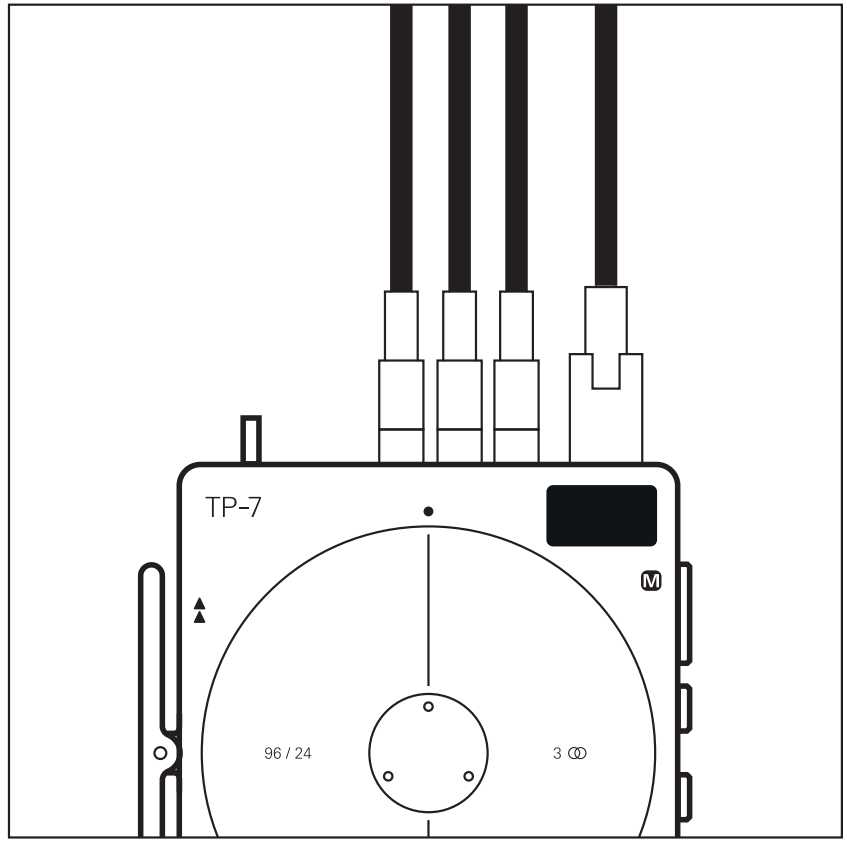


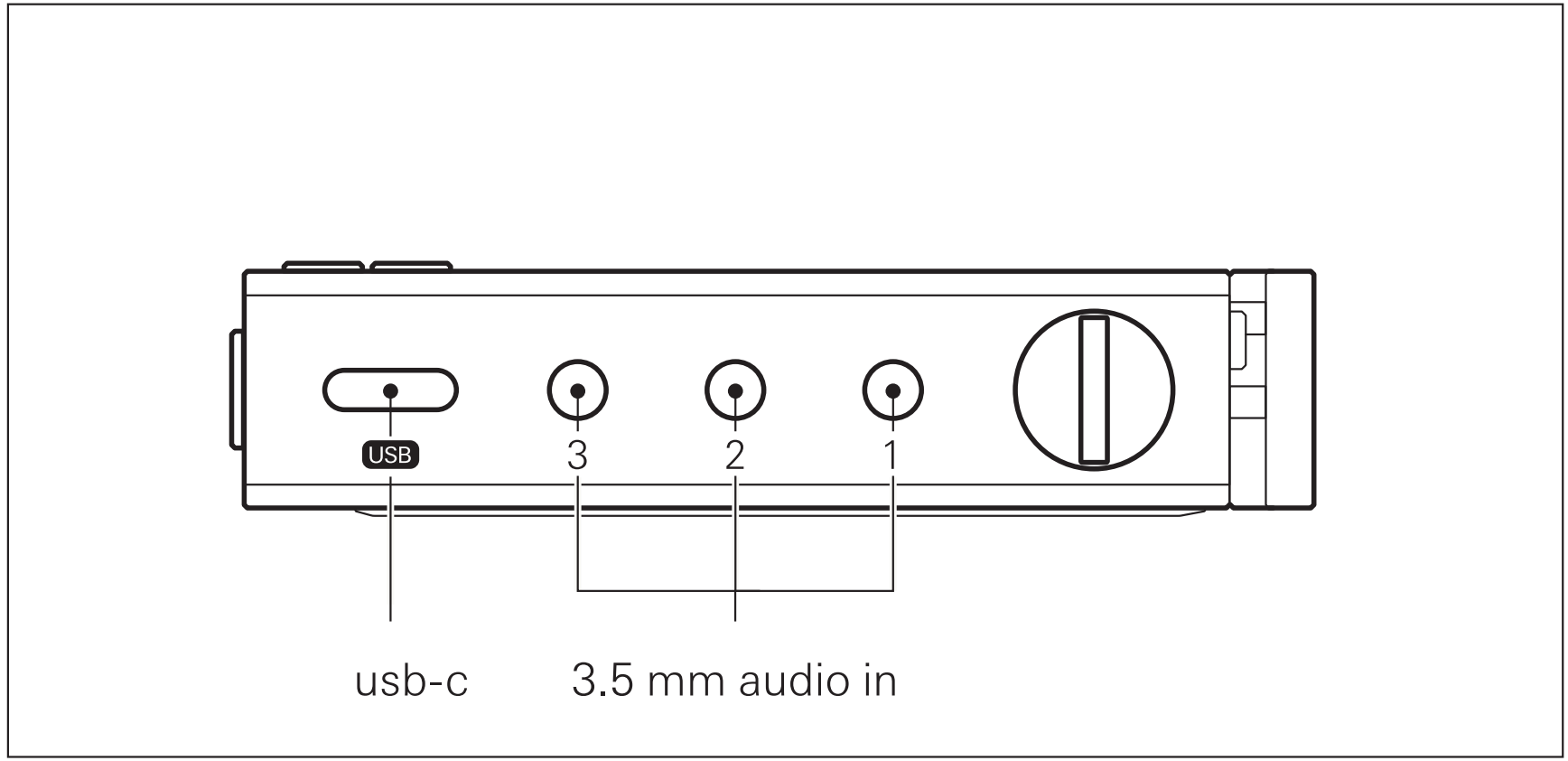
audio in

the audio inputs are located on the top side of the unit. there are three 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.

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



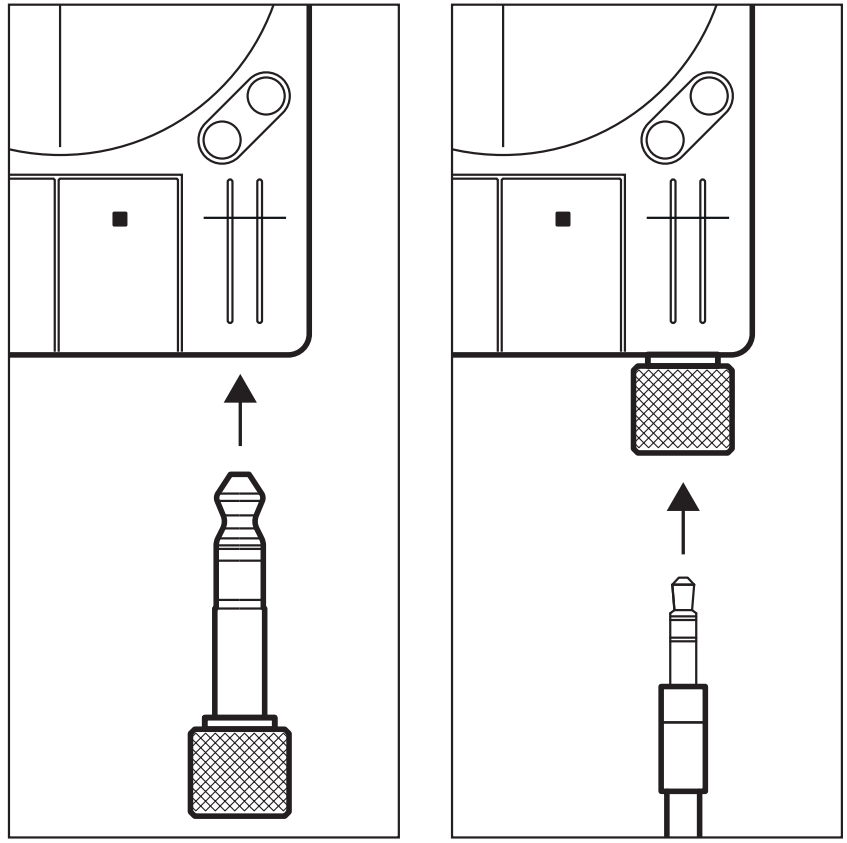
inputs



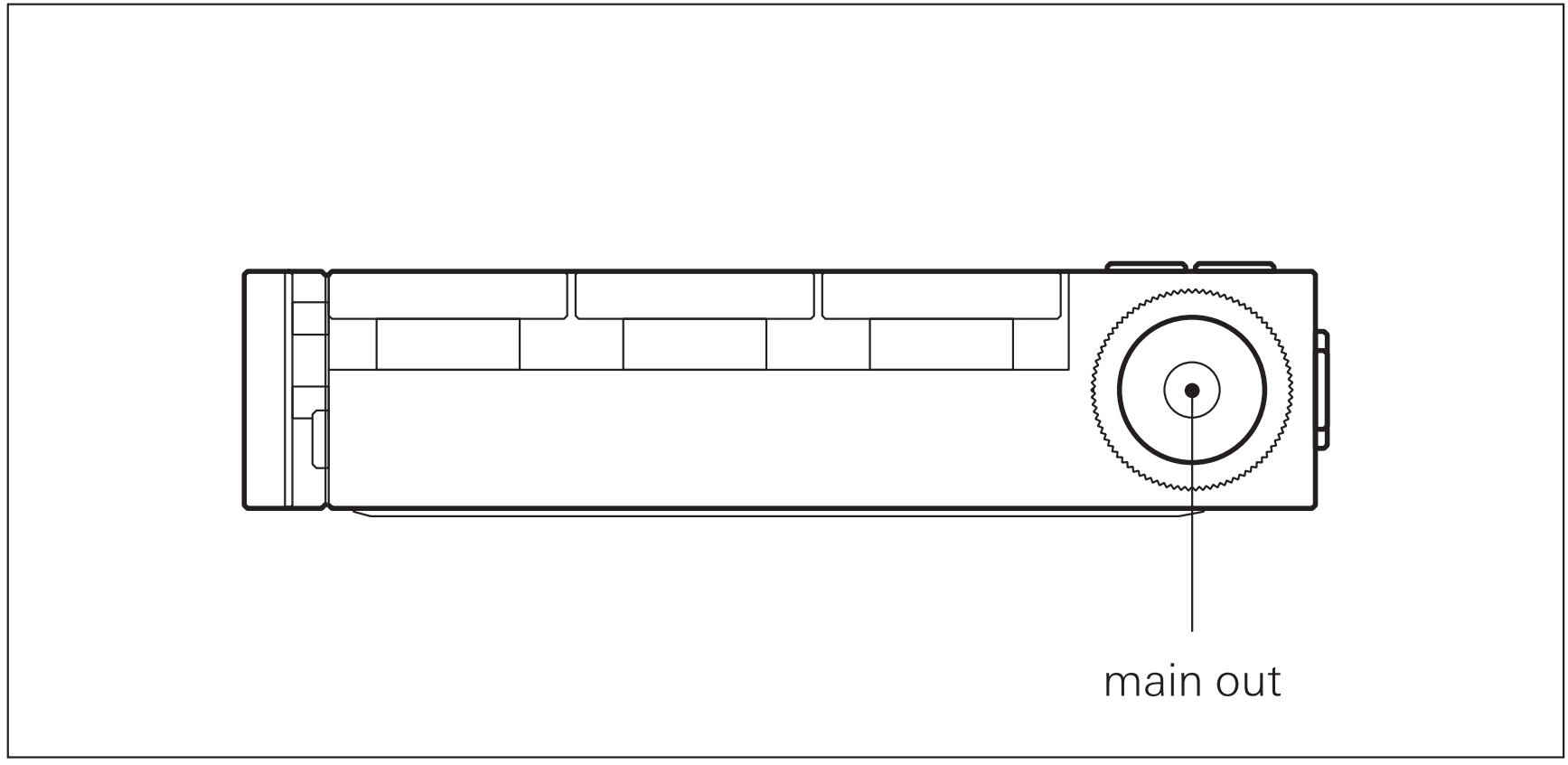
audio out

the various outputs on TP–7 can be connected to headphones, studio monitors, pa speakers or other audio equipment such the TX–6 and OP–1. main out is used for the main audio output signal.

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



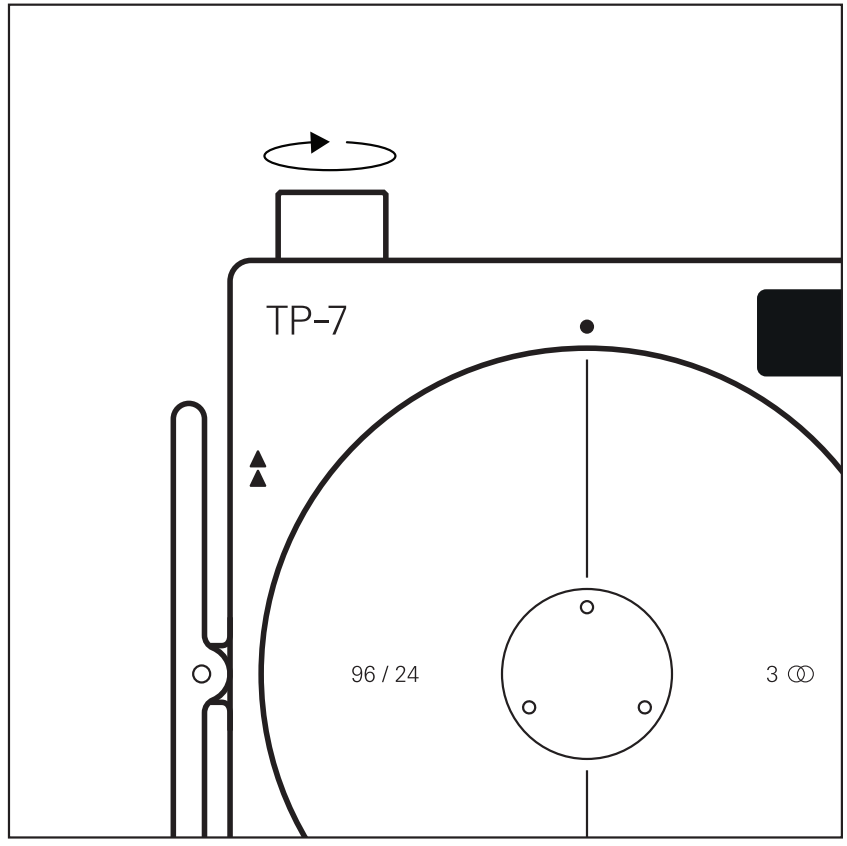
outputs



power on

turn on the unit by turning the power switch one quarter clockwise. the led next to the switch will light up, indicating that the unit is on.

the display will briefly show the TP–7 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. if battery is low, the top led turns red and flashes red on critically low battery level. when the battery is fully charged the top led turns white. to keep the battery healthy, the unit should be charged at least every 6 months.

firmware update

to update the TP–7 firmware:

- connect TP–7 via usb to a computer.
- hold the pinky 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/tp-7

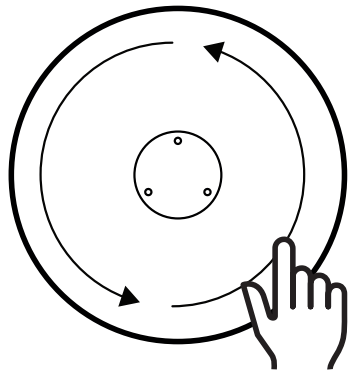
start

let’s start by getting familiar with the main TP–7 interface.

the wheel 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.

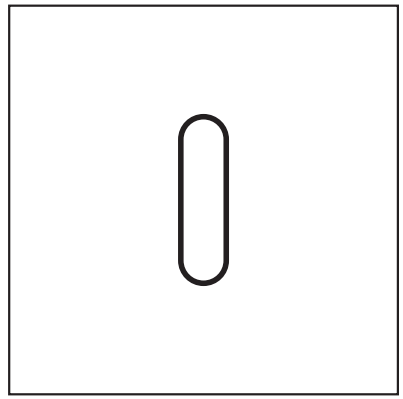
shift can be used to exit any menu and to return to home screen. it can also be used in combination with other buttons to access further functions.

wheel



the motorized wheel is the heart of the recorder. it can be rotated in both directions to scrub recordings and scroll menus.

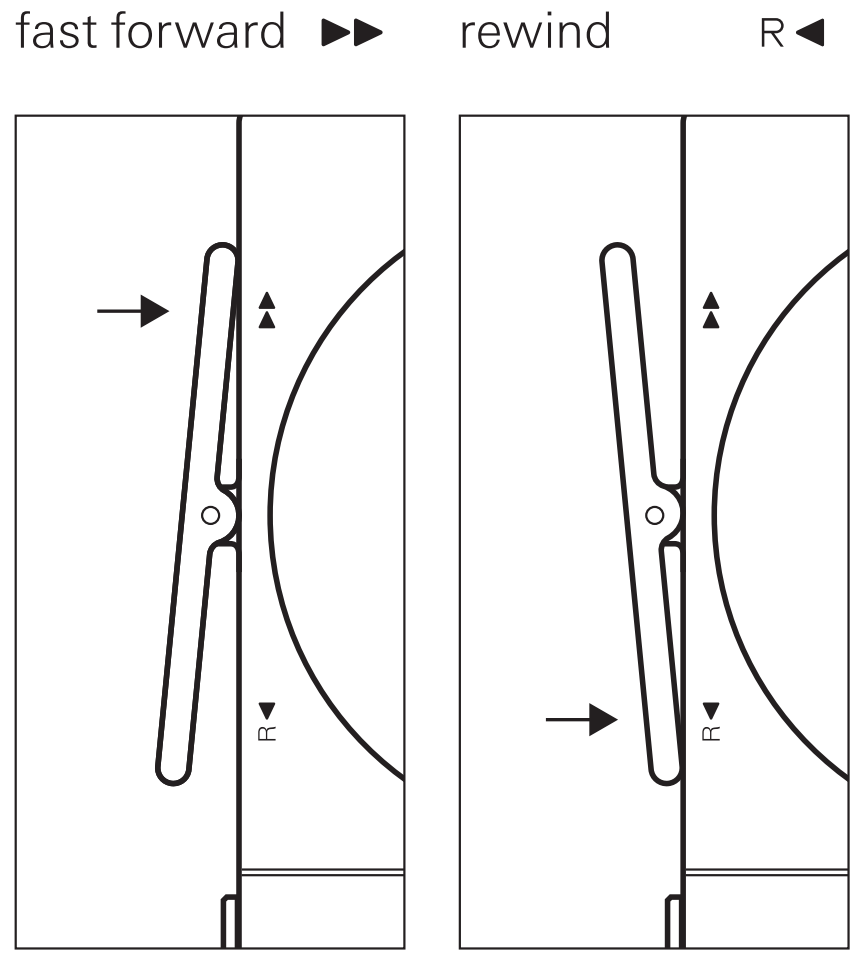
pinky



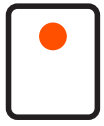
the pinky button is located on the left side on the recorder. it gives you access to the system menu and your file browser.

rocker

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.

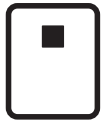


buttons



record

play



stop

memo

pinky

up

down

right

left

wheel and rocker commands

rotate wheel in any direction

rotate right / fast forward

rotate left / rewind

hold wheel / pause

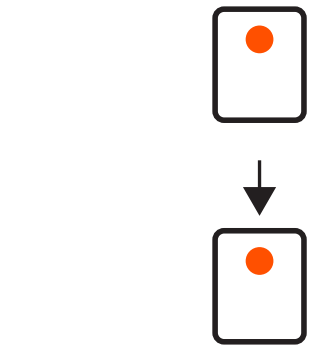
press rocker to fast forward

press rocker to rewind

guide conventions

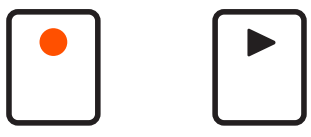
sometimes you will need to press buttons in sequence, sometimes in combination. these illustrations and texts will help you to follow along in the guide.

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.

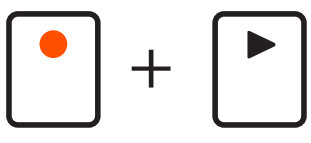


press the button one time.

press and hold the button.



first press one button and then the other.



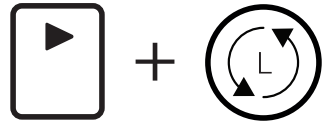
press and hold the first button. then the second.

first press one button and then rotate the wheel.

press and hold the first button, and rotate the wheel.

press and hold the first button, and rotate the wheel.

first press one button and then rotate wheel right.



press and hold the first button, and rotate wheel left.

screen

the home screen displays your recordings’ timecode, 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.

start-up / title screen.

home screen / timecode.

no files.
the first time you start your unit, or if you have emptied the library, this screen will be shown at start-up.

general operations

show file browser

show system menu

scroll menu / scrub recording

hold wheel to pause

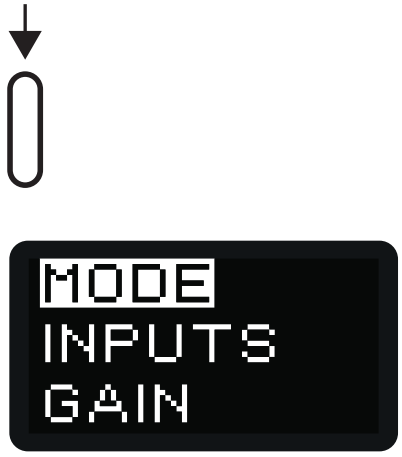
start rec armed recording

start voice memo recording

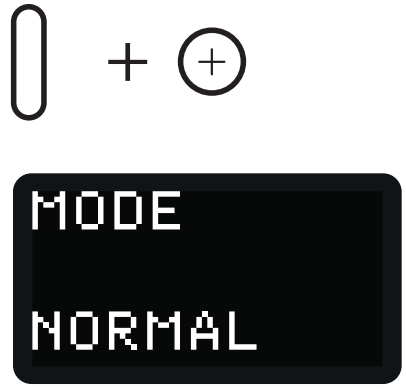
select / back toggle tracks

fast forward / rewind

file browser.
press pinky from the home screen to show the file browser screen.



system menu.
hold the pinky to access the system menu.



system menu.
hold the pinky to access the system menu, then press the right button to access the submenu.

leds and vu meters

TP–7 has 5 individual led lights.
these are:

- rec led
- top leds
- vu meters

rec led

recording
(solid)

rec armed mode
(flashing slowly)

overdub armed
mode
(flashing quickly)

flash slowly in rec armed mode.
flash quickly in overdub armed
mode.
solid on when recording.

top leds

fully charged (solid).

battery low.

battery critically low (flashing).

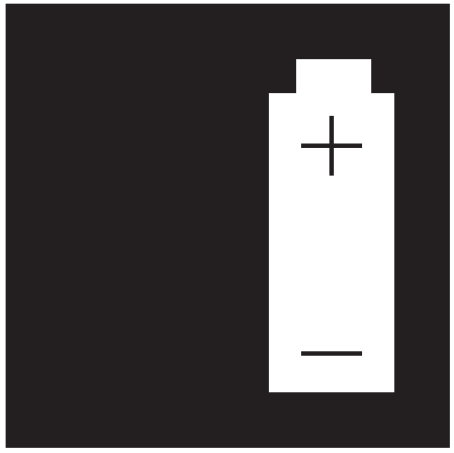
recording

recordings can contain up to six stereo tracks when recording from usb. when recording from analog inputs, each input jack is tied to track 1-3.

if recording internal mic only, this is track 1.

press rec to enter rec armed mode for a new recording or long hold rec for overdub record of existing recording (currently loaded file). overdub of course not possible if there are no file available.

technical specifications



- 3 stereo combo input/headset/PIP microphone connectors
- 1 stereo headphones connectors
- 24-bit/96 kHz usb audio interface
- bluetooth low energy radio interface
- rechargeable battery
- 8 h battery life
- 128x64 pixel monochrome display

electrical characteristics

- combo jacks:
  input
  impedance 9.5 kOhm
  analog gain 0 - 42 dB
  max level 8 dBu, 2 Vrms
  SNR ~ 105 dBA
- headset:
  max level 2 dBu, 1 Vrms
  SNR 110 dBA
  microphone SNR 98 dBA
  PIP: 3V bias
- headphone output:
  max level 8 dBu, 2 Vrms
  SNR 120 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 device.

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 TP–7
MODEL NO: TE025AS001

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/tp-7

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: Z23025A
IC: 9915A-025A

avertissements et garantie

TEENAGE ENGINEERING TP–7
MODEL NO: TE025AS001

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/tp-7

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: Z23025A
IC: 9915A-025A

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 0.63 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 0.63 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 TP–7 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/tp-7

FREQUENCY BAND:
2400 - 2483.5 MHZ

MAXIMUM OUTPUT POWER:
10 DBM EIRP

UK COMPLIANCE

HEREBY, TEENAGE ENGINEERING DECLARES THAT THE RADIO EQUIPMENT TYPE TP–7 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/tp-7

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