

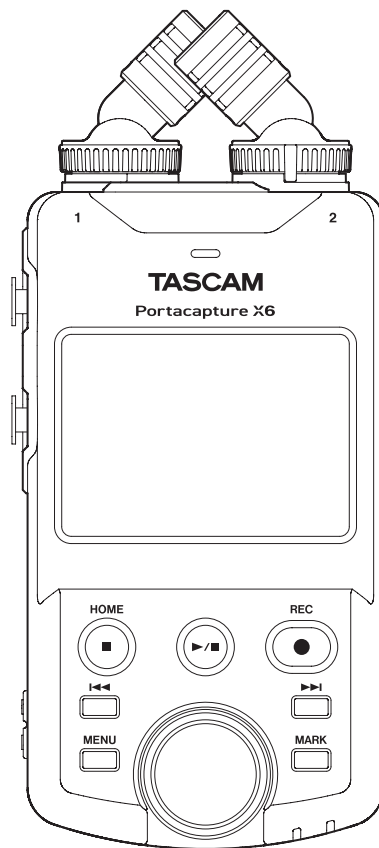
TASCAM

D01405020A

Portacapture X6

Linear PCM Recorder

Reference Manual



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1 - Introduction

1 - 1 Features

- The 2.4-inch color touchscreen, which makes the interface easy to view, enables easy and intuitive operation.
- In addition to basic multitrack recording, apps are ready for a wide range of recording applications, including podcasts, music, interviews, field recording and ASMR.
- With 2 lockable XLR input jacks, recording with multiple mic/line inputs is possible. Separate phantom power (24V/48V) is supported for each channel.
- The mic units use high-quality condenser mics.
- Switching between X-Y and A-B recording formats is possible by rotating the mic units.
- Multitrack recording with 6 tracks (4 tracks and a stereo mix) is possible.
- Recording with resolutions up to 96kHz/32-bit float (floating-point arithmetic) is supported. This enables audio editing using DAW software without reducing the audio quality of the recorded data.
- Dual recording with different formats is possible for each input track.
- USB audio interface functions support 6 ins and 2 outs.
- By connecting an AK-BT1 Bluetooth adapter (sold separately), wireless remote control using a smartphone or tablet can be enabled.
- Recording functions include low-cut filter, compressor, limiter, automatic gain control and noise gate.
- CAMERA and MIC/EXT IN jacks are built-in. These support output from a camera of the sound it is recording, wireless mic receivers and plug-in power mics, for example.
- The CAMERA/LINE output jack has an attenuation function and allows audio output to cameras and other devices.
- Audio can be monitored using the headphone output or the built-in speaker.
- Supports micro SD/micro SDHC/micro SDXC (up to 512GB) recording media
- Equipped with a USB Type-C port that supports USB bus power Supports operation on USB bus power.
- Various mark and slate tone functions are available.

1 - 2 Conventions used in this manual

The following conventions are used in this manual.

- “microSD/microSDHC/microSDXC memory card” is sometimes abbreviated as “microSD card”.
- Smartphones, tablets and other devices connected to this unit using Bluetooth are called “Bluetooth devices”.
- Files created during a single recording are referred to collectively as a project.
- The project that is currently selected is called the “current project”.
- Information shown on a computer display is written like this: “OK”.
- References to “iOS” in this document also include “iPad OS”.
- As necessary, additional information is provided under TIP, NOTE and CAUTION headings.

TIP

These are tips about how to use the unit.

NOTE

These provide additional explanations and describe special cases.

CAUTION

Failure to follow these instructions could result in damage to equipment or lost data, for example.

CAUTION

Failure to follow these instructions could result in injury.

1 - 3 Trademarks and copyrights

- TASCAM is a registered trademark of TEAC Corporation.
- microSDXC Logo is a trademark of SD-3C, LLC.



- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- Supply of this product does not convey a license nor imply any right to distribute MPEG Layer-3 compliant content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), streaming applications (via Internet, intranets and/or other networks), other content distribution systems (pay-audio or audio-on-demand applications and the like) or on physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit <http://mp3licensing.com>.
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1 - 4 microSD cards

A microSD card is necessary to record and play files with this unit. Prepare one for use.

This unit can use microSD cards that are Class 10 or higher and compatible with microSD, microSDHC or microSDXC standards.

A list of microSD cards that have been confirmed for use with this unit can be found on the TASCAM website (https://tascam.jp/int/product/portacapture_x6/docs). You can also contact TASCAM customer support.

Precautions for use

microSD cards are delicate media.

In order to avoid damaging microSD cards, take the following precautions when handling them.

- Do not leave them in extremely hot or cold places.
- Do not leave them in extremely humid places.
- Do not let them get wet.
- Do not put things on top of them or twist them.
- Do not hit them.
- Do not remove or insert them during recording, playback, data transmission or other access.
- Always put memory cards in cases when transporting them.

Note about formatting

microSD cards formatted by this unit are optimized to improve performance during recording. Use this unit to format the microSD cards to be used with it. Errors might occur when recording with this unit using a microSD card formatted by a computer or other device.

1 - Introduction

1 - 5 Accessories sold separately

This product does not include the following items.
Please purchase any that you need for your uses.

USB cables (for communication or data transmission)

A USB cable must be prepared to connect this unit to a computer (Windows/Mac) or smartphone.

This unit has a USB Type-C port.

Prepare a USB cable suitable for the USB port of the computer or smartphone being used.

- USB cables designed only for charging cannot be used.

Connecting to an iOS device with a lightning port

A genuine Apple Lightning to USB Camera Adapter and a commercially-available Type-A to Type-C cable are necessary.

Connecting to a computer or smartphone with a USB Type-C port

A commercially-available Type-C to Type-C cable is necessary.

Connecting to a smartphone with a USB micro-B port

A commercially-available micro-B to Type-C cable is necessary.

Connecting to a computer with a USB Type-A port

A commercially-available Type-A to Type-C cable is necessary.

PS-P520U AC adapter

This is necessary to operate this unit using AC power.

NOTE

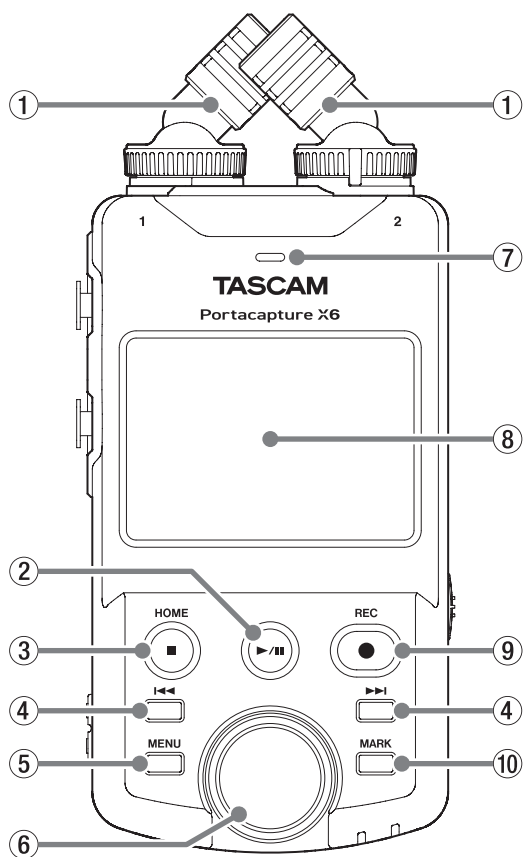
This unit does not have a battery charging function when using an AC adapter.

AK-BT1 Bluetooth adapter

This is necessary to control this unit from a smartphone or tablet using Bluetooth connection.

2- Names and functions of parts

2-1 Front



① Built-in mics (Input 1/2)

This is a stereo pair of electret condenser mics. They can be switched between X-Y and A-B recording formats. (page 17)

② ►/|| button

Press when stopped to start playback.
Press during playback to pause.
Press when a file is selected on the Browse Screen to play that file.

③ HOME [■] button

Press during playback to stop playback and set the playback position to the beginning of that file.
Press this when recording or paused to stop recording and return to the HOME screen.
When the GENERAL SETTINGS screen is open, press this to return to the LAUNCHER screen.

④ ◀◀/▶▶ buttons

⑤ MENU (shortcuts) button

When stopped, this opens the Shortcut Menu on the Home Screen.

⑥ Wheel

Use this make fine adjustments to mixer fader and input level settings.

⑦ Built-in speaker (mono)

Use this built-in speaker to listen to recordings.
Sound will not be output from the speaker in the following conditions.

- GENERAL SETTINGS screen > I/O SETTINGS page > SPEAKER item set to OFF
- When not playing back
- When headphones are connected
- When punching in/out

⑧ Touchscreen

This shows a variety of information.
Tap it and swipe it to make settings and operate the unit. (page 9)

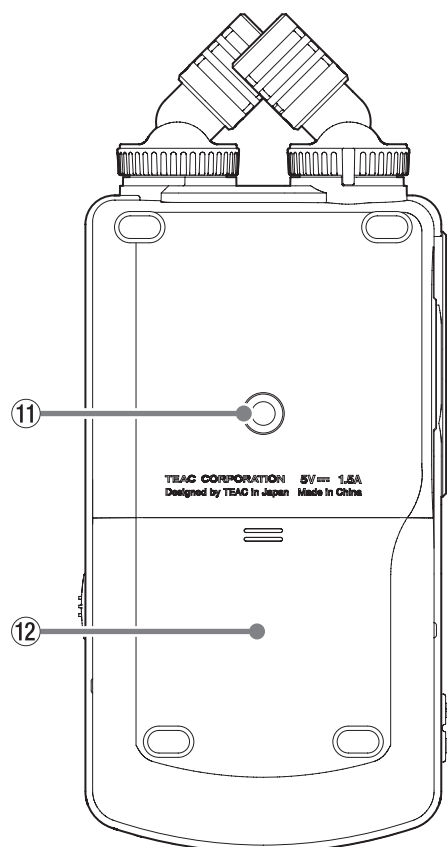
⑨ REC [●] button

Press when stopped to start recording.
Press when recording to put the unit in recording standby.
The function changes according to the RECORDING GUIDE and REC PAUSE settings. See "Recording operation flow" on page 24 for details.

⑩ MARK button

Press when recording or playing back to add marks manually.

2-2 Bottom



⑪ Tripod mounting threads (1/4-inch)

Use to attach this unit to a tripod.

CAUTION

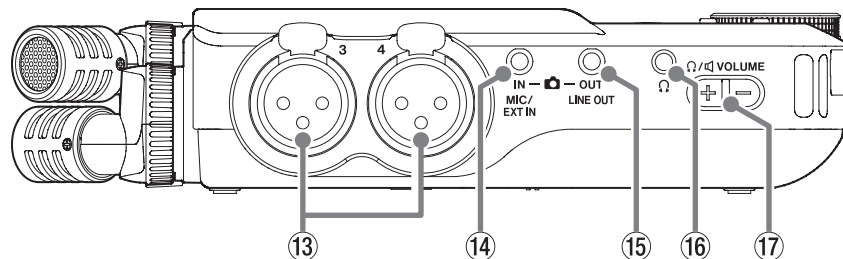
- Ensure the tripod or mic stand screw is securely fastened to prevent the unit from falling.
- When attaching this unit to a tripod or mic stand, be sure to place it on a level surface.
- Some tripods have different screw specifications that make direct connection impossible. Use a commercially-available adapter with such tripods.
- Screws that are longer than 4.5 mm cannot be used for attachment.

⑫ Battery compartment (AA batteries)

Install four AA batteries in this compartment to power the unit.

2 - Names and functions of parts

2-3 Left side



13 Input jacks 3/4 (Inputs 3/4)

These analog inputs are balanced XLR jacks.
XLR (1: GND, 2: HOT, 3: COLD)

14 MIC/EXT IN jack

Use a stereo mini jack cable to connect this to the line output jack of an audio device, for example, or an external mic (3.5mm TRS) that supports plug-in power.

15 LINE OUT jack

Use this to connect with the line input jack of an amp or other equipment.

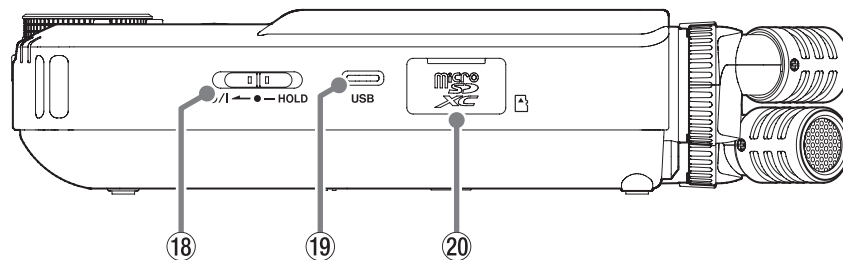
16 Ω (headphone) jack

Connect headphones to this jack.

17 Ω/🔊 (headphone/speaker) volume

Use this to adjust the volume output from the built-in speaker or the Ω (headphone) jack.

2-4 Right side



18 ⏻/1/HOLD switch

Slide this switch toward the ⏻/1 icon to turn the unit on and off (put it into standby). Set it to the HOLD position to activate the hold function. Neither the touchscreen nor any buttons can be used when HOLD is active.

Even when HOLD is active, operation is possible using the remote app (Portacapture Control).

19 USB Type-C port

Use a commercially-available USB cable to connect a computer or smartphone. (page 19)

When using an AC adapter, connect it to this port. (page 15)

20 microSD card slot

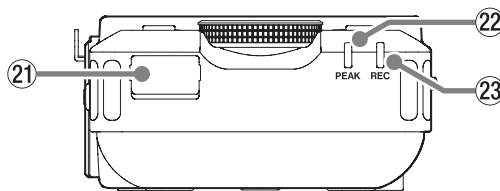
Insert microSD cards into this slot.

⚠ CAUTION

Before turning the unit on, lower the volumes of connected equipment to their minimum levels.

Failure to do so might cause sudden loud noises, which could harm hearing or result in other trouble.

2-5 Bottom



21 Bluetooth adapter connector

Connect an AK-BT1 Bluetooth adapter (sold separately) here.

22 PEAK indicator

This lights when the input level exceeds the peak level.

23 REC indicator

This blinks when in recording standby and lights when recording.

2-6 Using the wheel

After tapping a fader or knob on the touchscreen, turn the wheel left or right to change the setting precisely.

This is convenient for precise adjustments after making rough value changes by sliding.

2-7 Using the touchscreen

Basic screen operations

Functions can be set and adjusted by tapping, swiping and sliding on the touchscreen of this unit.

The first time the unit is started, after setting the language, date and time, the LAUNCHER screen will open.

The LAUNCHER screen can be used to launch various recording apps and setting screens.

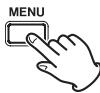
Launching recording apps

As shown in the illustration, slide the middle of the screen to select an app to launch, and tap its icon to launch it.

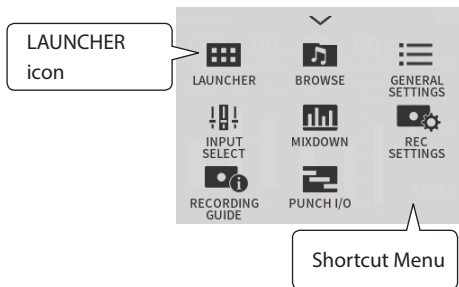


Returning to the LAUNCHER screen

1. Press the Shortcut Menu button at the bottom left of the unit.



2. Tap the LAUNCHER icon in the Shortcut Menu.



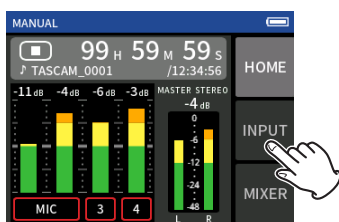
This reopens the LAUNCHER screen.

NOTE

When any app screen is open and the unit is stopped, press and hold the HOME button to return to the LAUNCHER screen.

Switching screens

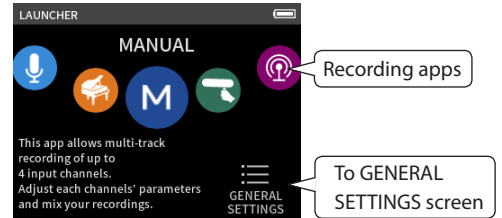
Tap the name of a screen on the right of the display to switch to it.



2-8 App overview

LAUNCHER screen

This can be used to launch recording apps and to open the GENERAL SETTINGS screen.



Recording apps

The following apps for typical recording situations are available.

| | |
|---------|--|
| ASMR | The screen effect changes in response to the input sound in this recording app. (2-channel recording app) |
| VOICE | This recording app is good for recording audio for interviews and video blogs. (2-channel recording app) |
| MUSIC | This recording app is good for easily capturing instrumental and vocal performances. (2-channel recording app) |
| MANUAL | This is the basic app of the unit. This enables multitrack recording of up to 4 channels. |
| FIELD | This app is good for recording outdoors. (2-channel recording app) |
| PODCAST | This app is good for recording podcasts with up to 2 people. |

Other apps

| | |
|----------------|---|
| SD CARD READER | This unit can be used as an SD card reader by connecting it to a computer with a USB cable. |
| BROWSE | This can be used to select folders and files for playback, deletion and other operations. |

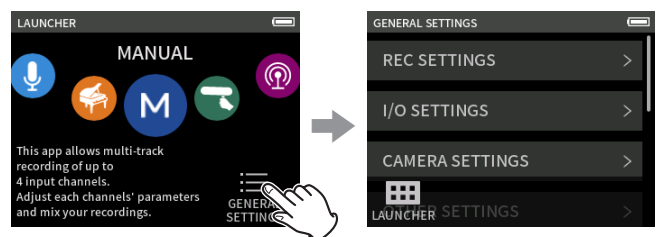
NOTE

The designs and functions of apps and other features could change with firmware updates.

GENERAL SETTINGS screen

Use this to make specific unit settings.

Tap the GENERAL SETTINGS icon at the bottom right of the LAUNCHER screen.



LAUNCHER screen

GENERAL SETTINGS screen

See "GENERAL SETTINGS" on page 54 for a list of setting items.

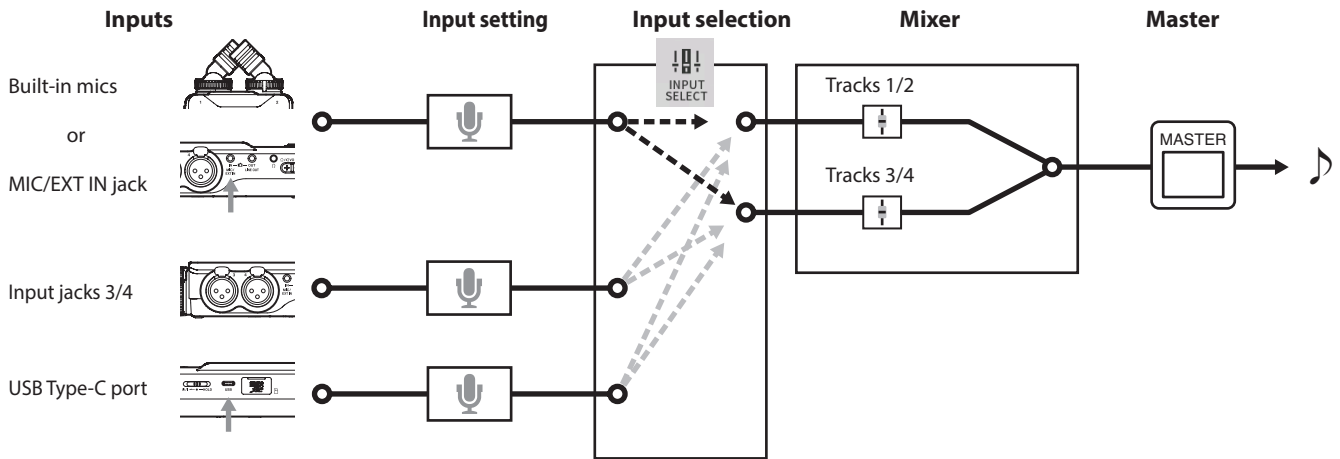
2 - Names and functions of parts

Recording app signal flows

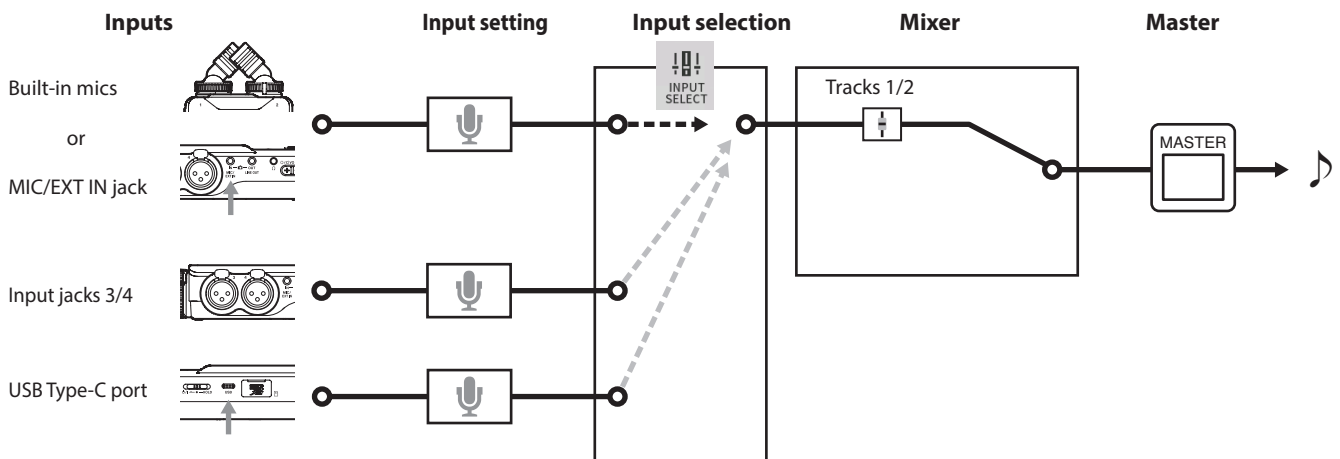
This unit is capable of multi-track recording with up to 6 tracks (4 tracks and a stereo mix). In each app, a maximum of 6 inputs can be assigned to up to 6 tracks. Tracks 1–4 can be used in the MANUAL app, tracks 1–2 can be used in the PODCAST app, and tracks 1 and 2 can be used in 2-channel recording apps.

- The built-in mics and the MIC/EXT IN jack cannot be used at the same time.

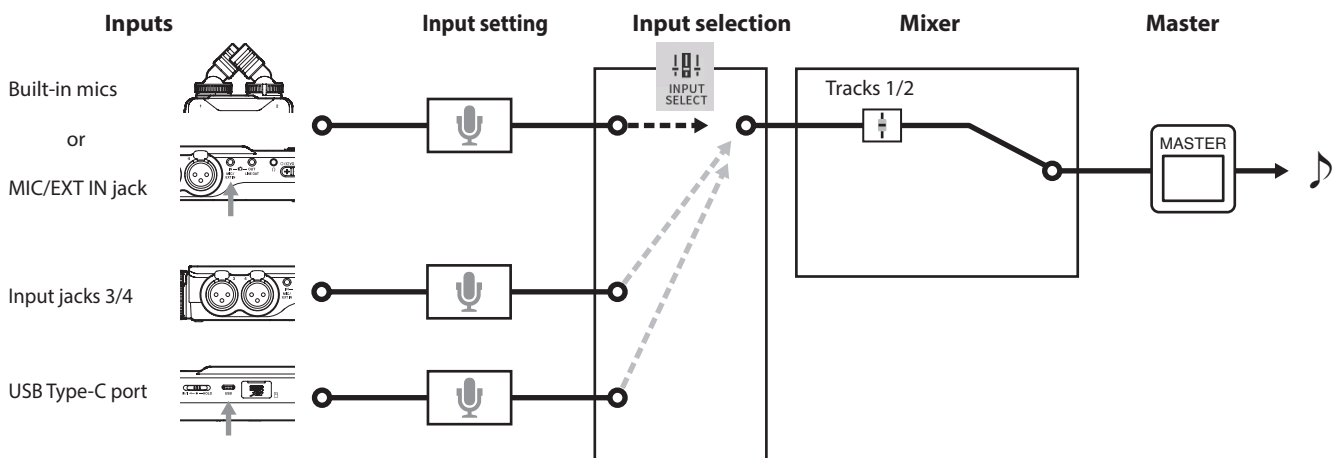
M MANUAL app



ASMR app MUSIC app VOICE app FIELD app (2-channel recording apps)



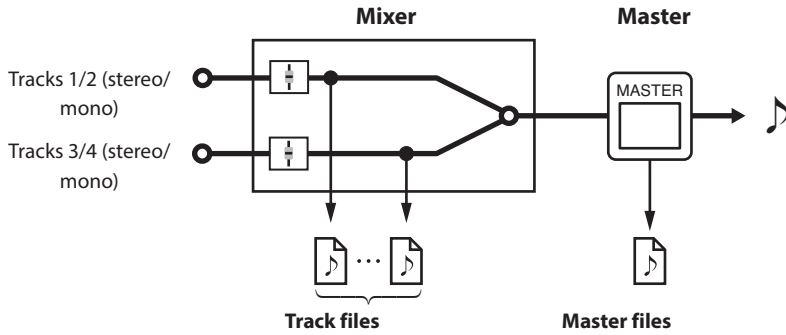
PODCAST app



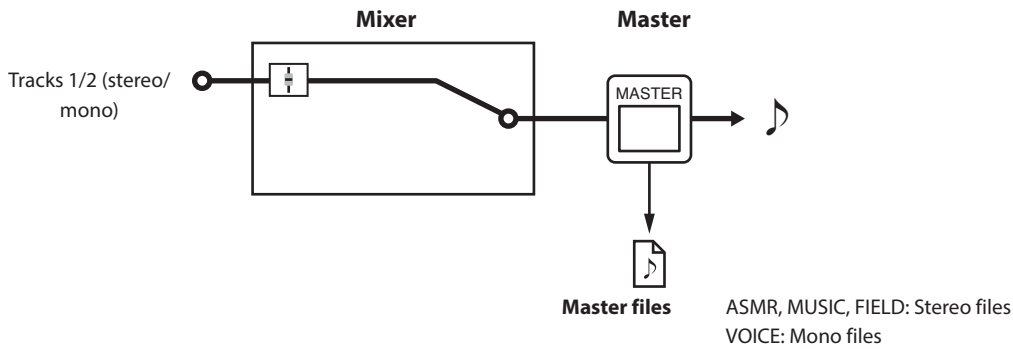
Recording app output files

The types of files produced by recording depend on the app.
Apps capable of multi-track recording produce a master file as well as track files.

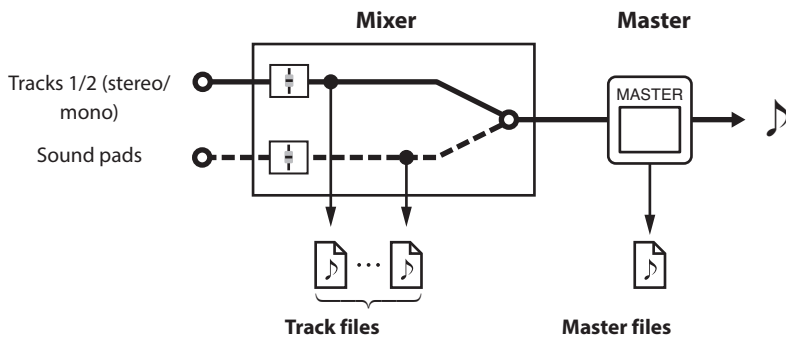
M MANUAL app



ASMR app MUSIC app VOICE app FIELD app (2-channel recording apps)



P PODCAST app



- The PODCAST app cannot use tracks 3–4.

Track files

These are mono recording files of audio from each track. Two tracks that are stereo-linked are recorded as single stereo files.

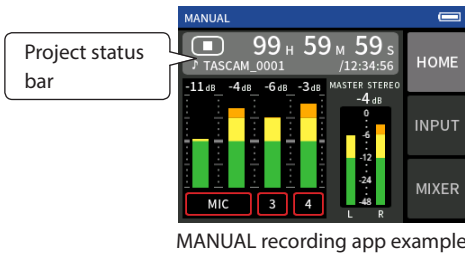
Master files

These files are recordings of the mixer output.

2 - Names and functions of parts

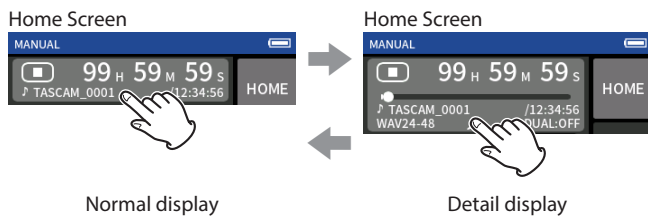
Project status bar

When an app is launched, its HOME screen will show the status of the unit, the counter and other information. In apps that have multiple screens, this data will be abbreviated on screens other than the HOME screen. Tapping the project status bar on the HOME screen will show details.



Showing details

Tap the project status bar to show additional details. When additional details are shown, tap the file format area to restore the normal display.



Information shown

| State | Status icon | Counter | File format |
|------------------|-------------|---|---------------------------------|
| Stopped | ■ | File remaining time/recordable time | According to recording settings |
| Record | ● | Recording time/recordable time | According to recording settings |
| Recording paused | ● | Recording time/recordable time | According to recording settings |
| Playing files | ▶ | Playback position/remaining playback time | According to the playback file |
| Paused | | Playback position/remaining playback time | According to the playback file |

Shortcut Menu

Tap the MENU button on the bottom left of the unit to show various menu shortcuts.

| ASMR | VOICE | MUSIC | MANUAL | FIELD | PODCAST |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | |
| LAUNCHER | LAUNCHER | LAUNCHER | LAUNCHER | LAUNCHER | LAUNCHER |
| BROWSE | BROWSE | BROWSE | BROWSE | BROWSE | BROWSE |
| REC SETTINGS | REC SETTINGS | REC SETTINGS | REC SETTINGS | REC SETTINGS | REC SETTINGS |
| INPUT SELECT | INPUT SELECT | INPUT SELECT | INPUT SELECT | INPUT SELECT | INPUT SELECT |
| INPUT SETTINGS | INPUT SETTINGS | | | | |
| | | | RECORDING GUIDE | | |
| | | | MIX DOWN | | |
| | | | PUNCH I/O | | |
| GENERAL SET-TINGS | GENERAL SET-TINGS | GENERAL SET-TINGS | GENERAL SET-TINGS | GENERAL SET-TINGS | GENERAL SET-TINGS |

Character input

Tap an item for character input to open the character input screen.

The following example shows the character input screen opened from the GENERAL SETTINGS screen > SYSTEM page > FILE NAME > WORD EDIT item.



Press the character type key to switch between letters of the English alphabet and numbers/symbols.

3- Preparation

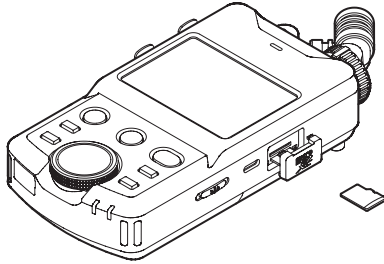
3-1 Inserting and removing microSD cards

Inserting microSD cards

Insert a microSD card into the microSD card slot on the right side to enable playback and recording by this unit.

NOTE

microSD cards can be inserted when the unit is on or off.



1. Open the microSD slot cover.
2. Insert the microSD card label side up.
3. Close the microSD slot cover.

Removing microSD cards

Turn the unit off or stop operation before removing a microSD card.

CAUTION

Never remove a microSD card when the unit is operating (including recording, playing back, or writing data to the microSD card). Doing so could cause proper recording to fail, data to be lost, and sudden loud noises from monitoring equipment, which might damage the equipment, harm hearing or cause other trouble.

1. Press the microSD card in gently and then release it to allow it to come out.
2. Pull the microSD card out.

3-2 Preparing the power supply

Notes about power supplies

This unit can be powered by 4 AA batteries, a TASCAM PS-P520U AC adapter (sold separately) or a commercially-available USB cable (USB bus power).

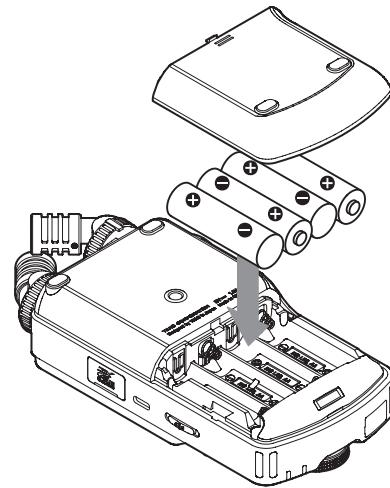
Alkaline, Ni-MH or lithium AA batteries can be used.

NOTE

This unit does not have a battery charging function when using an AC adapter.

Using AA batteries

1. Remove the battery compartment cover, and install 4 AA batteries with their \oplus and \ominus marks as shown in the battery compartment.
2. Reattach the battery compartment cover.



Set the type of battery in order to show the amount of power remaining and allow the unit to determine whether enough power is available for proper operation. ("Setting the AA battery type (BATTERY)" on page 53)

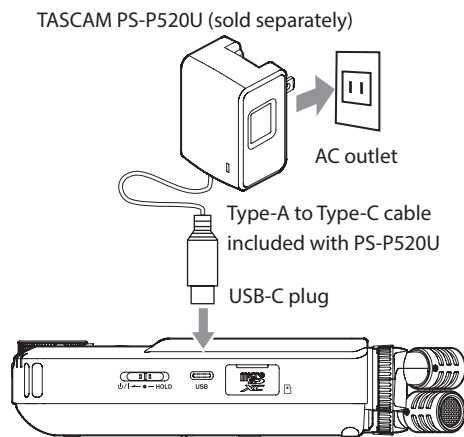
NOTE

- The included alkaline batteries are for confirming operation of the unit. For this reason, they might not last very long.
- When using dry cell batteries, the potential operation time will vary according to the environmental temperature and operating conditions.

For continuous operation over a long time, we recommend using an AC adapter or other external power supply.

Using an AC adapter (sold separately)

Connect a PS-P520U AC adapter (sold separately) to the unit's USB port.



CAUTION

- We highly recommend using the AC adapter designed for use with this unit (PS-P520U sold separately). When using another external power supply device, use one with the following specifications.

- Supplied voltage: 5 V
- Supplied current: 1.5A or more

Using a power supply device with specifications other than the above could cause malfunction, overheating, fire or other problems.

If trouble should occur, stop using the unit and contact the retailer where you purchased it or a TEAC service center to request repair.

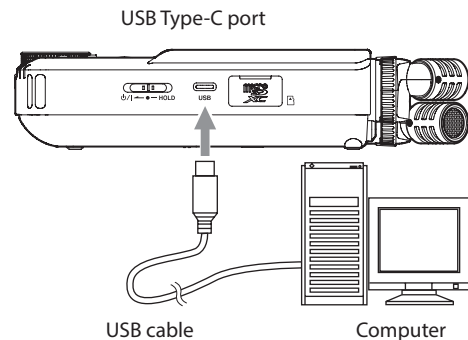
- Noise may occur when recording with a microphone if the unit is too close to the AC adapter. In such a case, keep sufficient distance between the AC adapter and the unit.

NOTE

- If the supplied current of the external power supply cannot automatically be determined, a power supply current confirmation pop-up will appear. If the power supply current is less than 1.5 A, the POWER SAVE MODE will be enabled, restricting some functions. ("Power saving (energy conservation) mode" on page 53)
- If the POWER SOURCE SELECT setting is AUTO, power will be supplied from the external source when both that source and batteries are available.

Using USB bus power

Use the supplied USB cable to connect the unit and the computer as illustrated below.



NOTE

- If a computer is going to be used only to supply power, a driver does not need to be installed.
- We recommend connecting it to a USB Type-C port on a computer or other device.
- If the current supplied by USB cannot automatically be determined, a power supply current confirmation pop-up will appear. If the power supply current is less than 1.5 A, the POWER SAVE MODE will be enabled, restricting some functions. ("Power saving (energy conservation) mode" on page 53)

3 - Preparation

3-3 Turning the power on and off

CAUTION

Turn down the volume of the sound system connected to the unit before starting up or shutting down the unit.

Do not wear connected headphones when turning the unit on and off. Noise could damage the headphone driver unit or harm your hearing.

Turning the power on

Slide the ϕ /I/HOLD switch toward ϕ /I until the display is activated. Then, release the switch.



Start up screen

When the unit starts up, the touchscreen display becomes active. The first time the unit is started, the LANGUAGE screen will open. From the second time, the Home Screen of the app selected on the LAUNCHER screen when the unit was last turned off will reopen.

Turning the unit off (putting it in standby)

Slide the ϕ /I/HOLD switch toward ϕ /I until the display turns off. Then, release the switch.

The unit turns off after it completes its shutdown process.

CAUTION

Always use the ϕ /I/HOLD switch to turn the unit off.

If the unit is not able to conduct shutdown procedures properly, recording data, settings and other changes could be lost. Lost data and settings cannot be restored.

NOTE

The unit cannot be turned off when it is recording or in recording standby.

Resume function

When this unit is turned off, it remembers the position where playback was stopped.

The next time it is turned on, playback can be started from where it was stopped.

NOTE

Since the stopped position is saved on the microSD card, it will not be saved if the microSD card is replaced while the power is on.

Setting the language, date and time

Selecting the language

The first time the unit is turned on after purchase, the LANGUAGE screen will open.



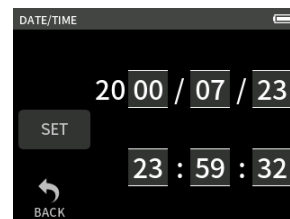
1. Swipe the screen vertically to find the desired language.
2. Tap the desired language to set it.

NOTE

The language setting can be set again using the GENERAL SETTINGS screen > SYSTEM page > LANGUAGE item.

Setting the date and time

After setting the language and whenever the date and time has been reset, the DATE/TIME screen will open to enable setting them.



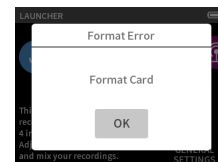
1. Tap and slide the numbers to set the date and time.
2. Tap the SET button to confirm the settings.

NOTE

Date and time settings can also be changed using the GENERAL SETTINGS screen > SYSTEM page > DATE/TIME item.

Formatting (initializing) microSD cards

The following message will appear if an unformatted card is loaded. Tap OK to start formatting.



- We recommend using ERASE FORMAT when formatting microSD cards the first time they are used with this unit.
- After formatting completes successfully, the LAUNCHER (app selection) screen will open.

CAUTION

Formatting will erase all data on a microSD card.

Back up to a computer, for example before formatting a card.

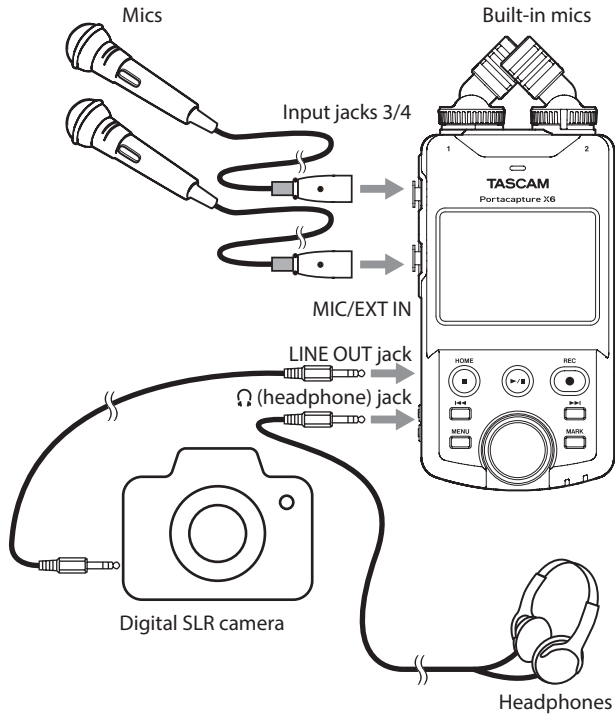
NOTE

- Formatting can also be executed using the GENERAL SETTINGS screen > SYSTEM page > MEDIA FORMAT item. (page 9)
- Using the ERASE FORMAT option might improve writing performance that has decreased due to repeated use. If "Write error. Recording will continue." or "Card speed reduced. Check BOF mark." appears during recording, format the card using the ERASE FORMAT option.
- ERASE FORMAT checks the memory for errors while formatting, so it takes more time than QUICK FORMAT.

4-1 Connection examples

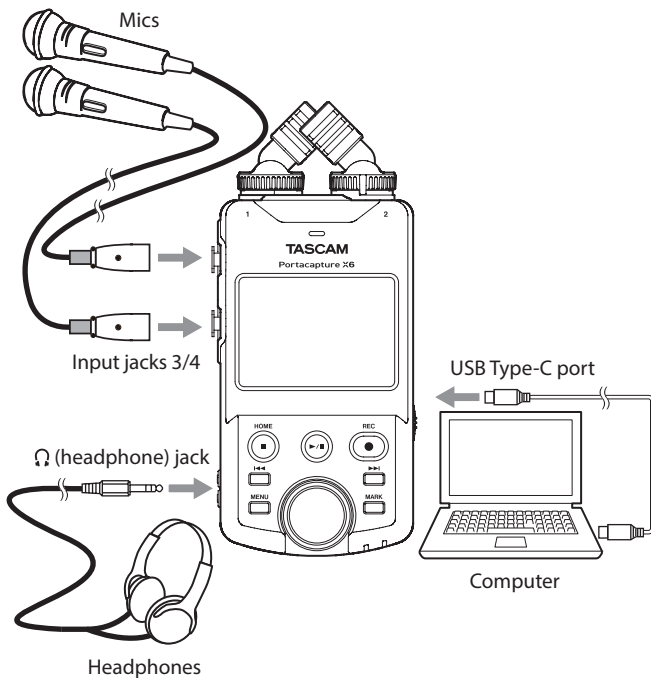
Using the MANUAL app

Multitrack recording of up to 4 inputs is possible.



Using the PODCAST app

Multitrack recording of up to 2 inputs is possible.



NOTE

To use multiple sets of headphones, use a commercially-available multichannel headphone amplifier, for example.

4-2 Setting the built-in mics

Using the built-in stereo mic

This unit's built-in mics are adjustable, enabling the mic format to be changed by setting their angles.

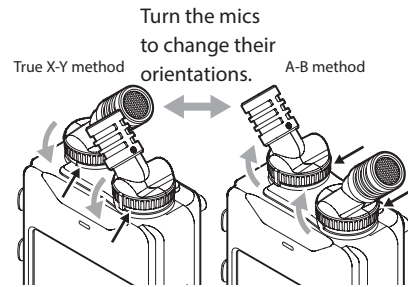
True X-Y method

This enables recording with a clear stereo field and reduced phase difference.

A-B method

This enables recording with a wide left-right stereo field.

Hold the rings indicated by the black arrows and turn the built-in mics to change their angles.



The built-in mics become usable by turning their lock rings until they stop and are tight.

The built-in mics will not be set properly if their rings have not been turned until they stop.

4 - Connections

4-3 Connecting external mics and other equipment

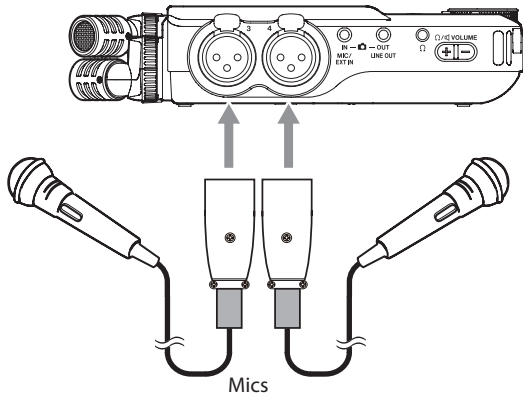
Connecting external mics

Connect mics to the Input 3/4 XLR connectors.

Point the mics at the sound source and place the unit in a stable location where there is little vibration.

When connecting to the XLR jacks, insert the plug until a clicking sound is made. When disconnecting, pull the plug out while pressing the locking mechanism.

Example connecting to input jacks 3-4



After connecting and making INPUT SELECT settings, use the INPUT settings to select MIC or LINE level. ("Making input settings for each input" on page 20)

NOTE

- Make phantom power settings when using a mic that requires phantom power. (page 22)
- When connecting a device with unbalanced output, use the MIC/EXT IN jack.

Connecting mid-side mics

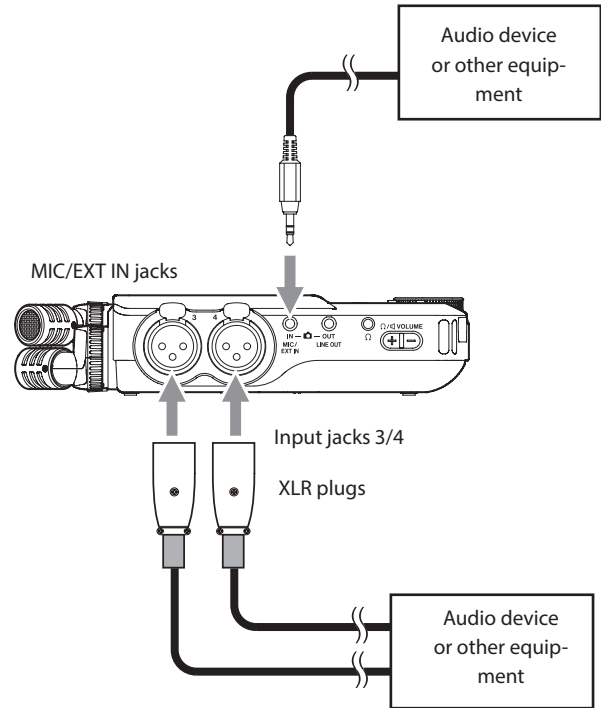
Mid-side mics can be connected to input jacks 3 and 4.

Connect the mid-side mic mid to input jack 3 and the side to input jack 4. After connecting them, select the tracks assigned to the jacks they are connected to using the GENERAL SETTINGS screen > I/O SETTINGS > MS DECODE > SOURCE item.

See "Using the mid-side decoding function" on page 49 for details about recording with mid-side mics.

Connecting other equipment

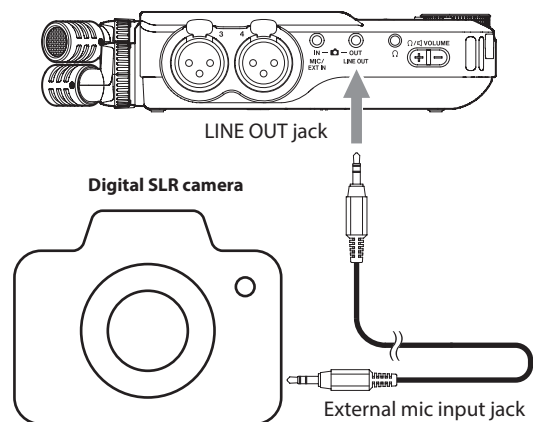
- Use the MIC/EXT IN jack to connect stereo mini cables. After connecting and making input selection settings (page 20), change the input setting to MIC/EXT IN. ("Making input settings for each input" on page 20)
- To connect XLR plugs, use input jacks 3/4. After connecting and making the INPUT SELECT setting (page 20), change the input setting to LINE. ("Making input settings for each input" on page 20)



XLR-3-31 equivalent(1: GND, 2: HOT, 3: COLD)

4-4 Connecting cameras

When recording video with a camera, the same sound can be recorded simultaneously by the camera and this unit. In order to input sound to the camera, connect it with this device as shown below.



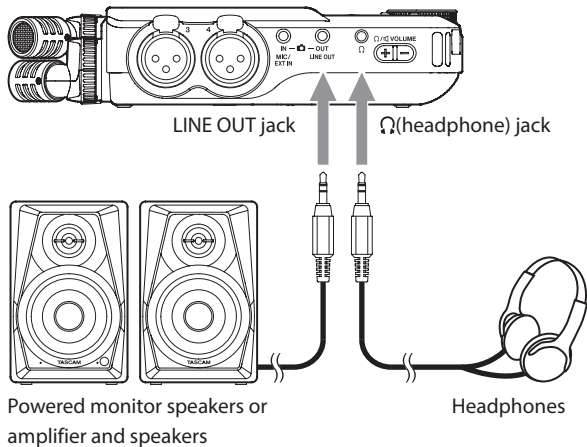
Setting the output for camera use

The line output level can be attenuated up to 30 dB for camera use. See "Setting the output for camera use" on page 46.

4-5 Connecting monitoring equipment

To listen with an external monitoring system (powered monitor speakers or an amplifier and speakers), connect it to the LINE OUT jack.

To listen with headphones, connect them to the Ω (headphone) jack. Depending on the settings, monitoring might not be possible until the REC button is pushed. See "Recording operation flow" on page 24 for details.



4-6 Using the built-in speaker

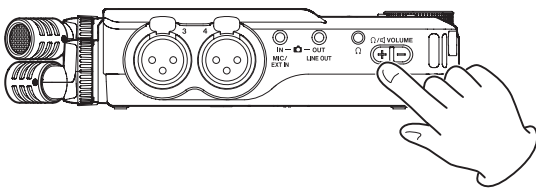
To listen to the playback sound through the built-in speaker, set the GENERAL SETTINGS > I/O SETTINGS > SPEAKER item to ON.

NOTE

If anything is connected to the Ω (headphone) jack, sound will not be output from the speaker even if SPEAKER output is set to ON.

4-7 Adjusting the playback volume

Press +/- on the Ω / \square (headphone/speaker) volume control to adjust the volume output from the built-in speaker and Ω (headphone) jack.



CAUTION

To listen to the playback sound through the built-in speaker, set the GENERAL SETTINGS > I/O SETTINGS > SPEAKER item to ON. This is off when shipped new from the factory.

NOTE

Sound will not be output through the speaker when the unit is recording, in recording standby, in recording guide mode or when headphones are connected.

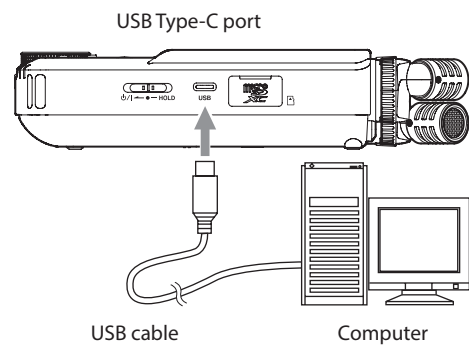
4-8 Connecting computers and smartphones

The following functions can be used when connected by USB to a computer (Windows/Mac) or smartphone.

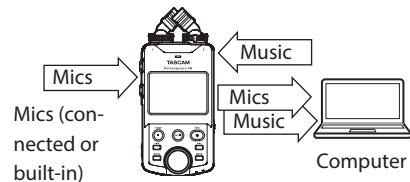
- Use the unit as a USB mic
- Simultaneously record to a computer while recording on the microSD card in the unit (backup recording)
- Monitor sound from the computer
- Use as a microSD card reader (only when connected to a computer)

NOTE

A USB cable must be prepared to connect this unit to a computer (Windows/Mac) or smartphone. (see "USB cables (for communication or data transmission)" on page 6)



- Stream live mixes of sounds playing back from a computer and input through mics connected to this unit (loopback function)



See "USB connection" on page 47 for details about use.

5- Input and output settings

5-1 Using the INPUT SELECT function

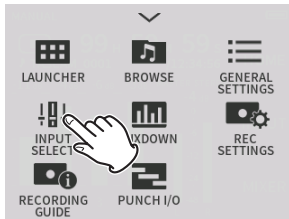
Track numbers and input jacks can be assigned in pairs. The INPUT SELECT function can be used from recording app screens.

1. Press the Shortcut Menu button at the bottom left of the unit.

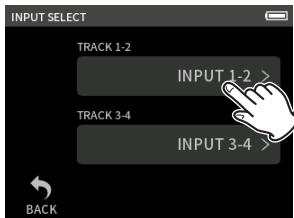


MANUAL recording app example

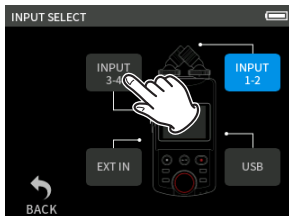
2. Tap the INPUT SELECT icon in the Shortcut Menu.



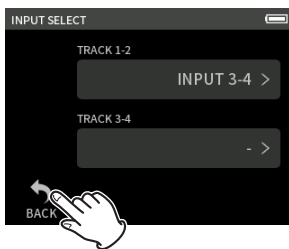
3. Tap a pair of tracks to change their input connector assignments.



4. Tap the input connector(s) to assign.
Repeat steps 3–4 as necessary.



5. Tap the BACK icon to complete the setting.



CAUTION

Since the built-in mic and MIC/EXT IN cannot be used at the same time, only one can be assigned to tracks.

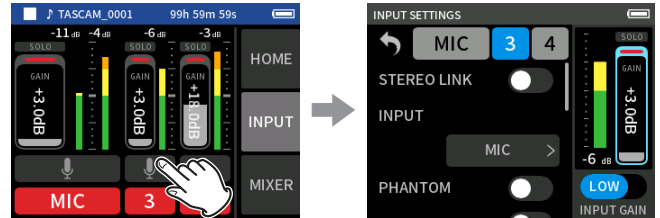
NOTE

- Input settings are retained by newly assigned tracks. The stereo link function is an exception.
- "MIC" will be shown for tracks that have the built-in mics assigned to them.
- "EXT" will be shown for tracks that have the EXT IN jack assigned to them and "EXT MIC" will be shown if plug-in power is turned on (page 23).

5-2 Making input settings for each input

Tap the input settings icon of the track to set or INPUT SETTINGS in the shortcut menu to open the settings screen.

MANUAL recording app example



Tap the input settings icon.

NOTE

- Input settings cannot be made for USB.
- Not all setting items are shown on a single screen. Swipe the screen up and down to show the necessary setting items.
- The tracks that can be set depend on the app. (page 11)
- Even though tracks are selected to make settings, they are saved as settings for the input jacks assigned to those tracks. For this reason, when the INPUT SELECT function is used to change the track assignments of input jacks, the settings do not change for those inputs. The stereo link function is an exception.

Using the STEREO LINK function

Audio from track pairs 1–2 and 3–4 can be sent to the mixer as stereo. Select one of the tracks to be stereo-linked, and turn the STEREO LINK setting on.

NOTE

- When shipped new from the factory, the built-in mics are connected to tracks 1–2, which are stereo-linked. "MIC" is shown when the tracks for the built-in mics are stereo-linked.
- Stereo-linking is always on for MIC/EXT IN input and USB input, so the STEREO LINK button is disabled with them.

Setting recording input sources (INPUT)

Track input sources can be set.

For inputs 1/2, set "MIC" to "EXT".

For inputs 3/4, set "MIC" to "LINE".

- When "EXT" is selected, the MIC/EXT IN jack will be assigned with stereo-linking to tracks.
- When "LINE" is selected the input signal is attenuated –22 dB.

Using phantom power (phantom voltage)

Make this setting when using mics that require phantom power. (page 22)

Adjusting the input level automatically (AUTO GAIN)

When this function is on, the input level will be adjusted automatically in response to the input audio. Using this function, the recording level is automatically increased when the input sound is too quiet or decreased when it is too loud. This function is useful for recording meetings, for example. When AUTO GAIN is on, the recording level cannot be changed manually.

Setting the low-cut filter (LOW CUT)

This cuts audio below the selected frequency.

The low-cut filter can reduce bothersome noise, such as from wind, air-conditioners and projectors.

Set the cutoff frequency of the low-cut filter to match the noise.

LOW CUT

OFF(default), 40Hz, 80Hz, 120Hz, 220Hz

Setting the noise gate (NOISE GATE)

Sound below a set level can be muted.

When LOW is selected, only quite sounds will be muted. When HIGH is selected, sounds up to a certain level will also be muted.

Setting the limiter (LIMITER/COMP)

Using the limiter can suppress distortion caused by sudden excessive sound input.

OFF

The limiter function is disabled.

LIMITER

This function prevents distortion when signals that are too loud are input suddenly.

This is suited for recording live performances and other situations with large volume changes.

CAUTION

Distortion could occur when the input sound is excessively loud even if the limiter function is on. In such a case, lower the input level or increase the distance between the unit and the source.

COMPRESSOR

This increases the levels of low-level input signals and adjusts high-level input signals so that they do not become any higher.

This does not have a function to prevent distortion.

This is suited for recording situations that have large volume changes without excessive input levels, for example.

Setting the equalizer (EQ)

The equalizer has the effect of amplifying and attenuating specific frequency ranges. This can be used, for example, to enhance the sound of individual instruments, to adjust the balance of a wide frequency range and to cut specific unwanted frequencies.

VOICE

This setting is good for recording sound in interviews, meetings, podcasts and similar conversational situations.

GUITAR

This setting is good for recording acoustic guitars.

LOUD

The setting is good for emphasizing heavy low frequencies in band performances, for example.

VOCAL

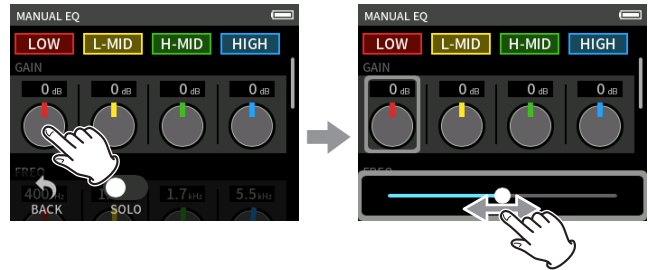
This setting is good for recording singing voices.

MANUAL EQ

With this setting, four bands can be adjusted manually. In addition to low-frequency and high-frequency boosts, two peak curves can be set.

MANUAL EQ

This 4-band parametric EQ can be adjusted manually.



Tap the knob to be adjusted.

Slide the fader left and right to adjust it.

NOTE

After tapping a knob to adjust it, the wheel can be turned to adjust it precisely.

GAIN (LOW/L-MID/H-MID/HIGH) knobs

These set the amounts levels are increased or decreased for each band.

Ranges

GAIN: -12 dB - +12 dB (default: 0 dB)

FREQ (HIGH/H-MID/L-MID/LOW) knobs

These set the cutoff frequencies of the HIGH and LOW bands and the middle frequencies of the HIGH-MID and LOW-MID bands.

Ranges

HIGH: 1.7 kHz - 18.0 kHz (default: 5.5 kHz)

HIGH-MID: 32 Hz - 18.0 kHz (default: 1.7 kHz)

LOW-MID: 32 Hz - 18.0 kHz (default: 1.7 kHz)

LOW: 32 Hz - 1.6 kHz (default: 400 Hz)

Q (H-MID/L-MID) knobs

These set the acuteness of these bands.

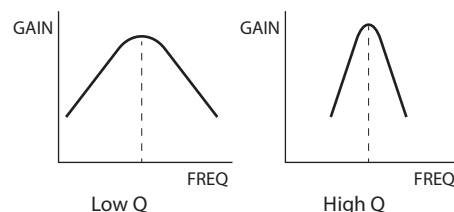
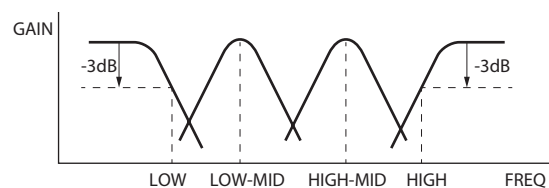
The higher the value is the more acute it becomes, making it affect a narrower frequency band around the set frequency. The lower the value is the less acute it becomes, making it affect a broader frequency band around the set frequency.

Ranges

HIGH-MID: 0.25 - 16.00 (default 2.00)

LOW-MID: 0.25 - 16.00 (default 2.00)

Examples of EQ characteristics



Inverting the input phase (PHASE INVERT)

Turning this on will invert the phase.

NOTE

- If the sound seems to be unclear when recording the same source with more than two or more mics, inverting the phase of one or more inputs could improve the sound quality.

5 - Input and output settings

Adjusting input gain (GAIN)

Slide the GAIN fader to adjust the input level.

- While watching the level meter, adjust the GAIN so that the level averages around -12 dB and the PEAK indicator does not light.
- The recording sound might distort when the PEAK indicator lights.

NOTE

If the input level exceeds -2 dB, the PEAK indicator on the unit will light.



NOTE

- If an overload occurs with an analog circuit, the entire level meter will become red. Since this could cause the recorded audio to become distorted, make the following adjustments.
 - Change the INPUT GAIN to LOW.
 - Distance the mic from the sound source.
 - Lower the volume of the sound source.
- After tapping the GAIN, the wheel can be turned to adjust it precisely.

Changing the input gain (GAIN)

The two INPUT GAIN options are LOW and HIGH.

Tap the INPUT GAIN LOW/HIGH button to switch to the other option.

NOTE

- Adjust the INPUT GAIN using the LOW setting first. If the gain is insufficient, switch to HIGH and adjust the gain.
- The INPUT GAIN switches of stereo-linked inputs are also linked.
- The INPUT GAIN switches of inputs 1–2 stay linked even when the inputs are not stereo-linked.

5-3 Adding reverb to inputs (REVERB)

Set this with the GENERAL SETTINGS screen > I/O SETTINGS page > REVERB item.

When this is on, reverb will be applied to the selected tracks (1/2, 3/4, MIX).

NOTE

Reverb cannot be used if the sampling frequency setting is 96 kHz.

TYPE

This sets the type of reverb.

| TYPE | Effect |
|----------------------|--|
| LARGE HALL (default) | This reverb is modeled on a large hall space. |
| SMALL HALL | This reverb is modeled on a small hall space. |
| ROOM | This reverb is modeled on a small indoor space. |
| STUDIO | This reverb is modeled on a studio-like space. |
| PLATE1 | This emulates a plate reverb with a large plate. |
| PLATE2 | This emulates a plate reverb with a small plate. |

SOURCE

Use this to select the tracks affected by the reverb.

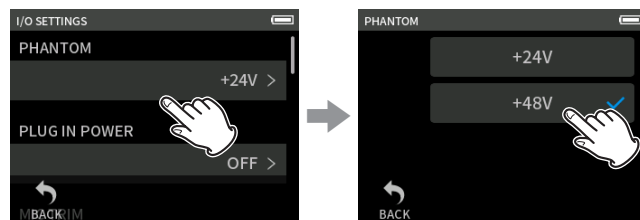
When MIX is selected, reverb is applied to the mixer output.

LEVEL

This sets the reverb level.

5-4 Setting the phantom power voltage

Set the phantom power voltage with the GENERAL SETTINGS screen > I/O SETTINGS page > PHANTOM voltage item.



Tap the PHANTOM voltage item

Tap the desired voltage.

NOTE

- Turn phantom power output on/off on the INPUT SETTINGS screen. (page 20)
- The default value is 48V.
- Battery power will be consumed faster when set to 48V than when set to 24V.

CAUTION

- Do not connect or disconnect mics with the MIC/LINE IN jacks when phantom power is on. Doing so could cause a loud noise and might damage this unit and connected equipment.
- Turn phantom power on only when using a condenser microphone that requires phantom power. Turning phantom power on when a dynamic mic or other external device, for example, that does not require it is connected could damage this unit and the connected equipment.
- When using condenser mics that require phantom power and dynamic mics together, be sure to use balanced dynamic mics. Unbalanced dynamic mics cannot be used when phantom power is enabled.
- Supplying phantom power to some ribbon mics could break them. If you are unsure, do not supply phantom power to a ribbon mic.
- Some condenser microphones will not operate when phantom power is set to +24V.
- Battery operation time will change according to the mics being used. For details, refer to the operation manual of the mic, for example.
- When using phantom power while running on batteries, the operation time might be reduced greatly depending on the mics being used. We recommend using a TASCAM PS-P520U AC adapter (sold separately).

Furthermore, when using an adapter that does not meet the recommended specifications, supplying phantom power to multiple inputs could cause the power to turn off automatically.

- Do not connect or disconnect the AC adapter when using phantom power. The unit could turn off even when batteries are installed, resulting in recorded data becoming damaged or lost.
- When using USB bus power, the unit might not be able to supply phantom power depending on the computer. In this case, set the unit to use battery power.

5 - 5 Setting plug-in power

Set this with the GENERAL SETTINGS screen > I/O SETTINGS page > PLUG IN POWER item.

Options: OFF (default), ON (STEREO), ON (MONO)

When connecting a microphone that requires plug-in power, set this to ON.

When connecting a mono mic, set this to "ON (MONO)" to record the same signal to both left and right channels.

CAUTION

Do not turn plug-in power on when connected to a mic that does not require it. Doing so could damage the connected equipment.

See the mic operation manual for details.

6- Recording apps

6-1 Recording app overview

Recording pause function

This unit has a recording pause function that causes it to start monitoring the input signal when the REC [●] button is pressed. This function can be used with all recording apps.

A recording can be started and paused repeatedly without stopping, allowing it to be saved as a single file.

The recording pause function is off when shipped new from the factory.

When the recording pause function is off, the input signal is always monitored when a recording app is active.

When the recording pause function is on, the input signal is only monitored when the recording guide function is active, recording is paused or recording is in progress.

The recording pause function can be set with the GENERAL SETTINGS screen > REC SETTINGS page > REC PAUSE item.

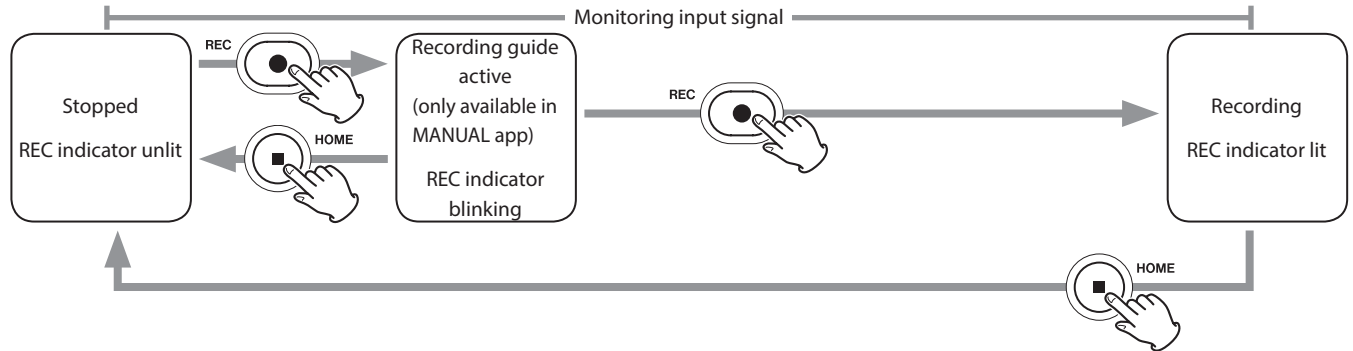
NOTE

When the recording pause function is activated monitoring of input signals is disabled when recording is stopped, reducing power consumption.

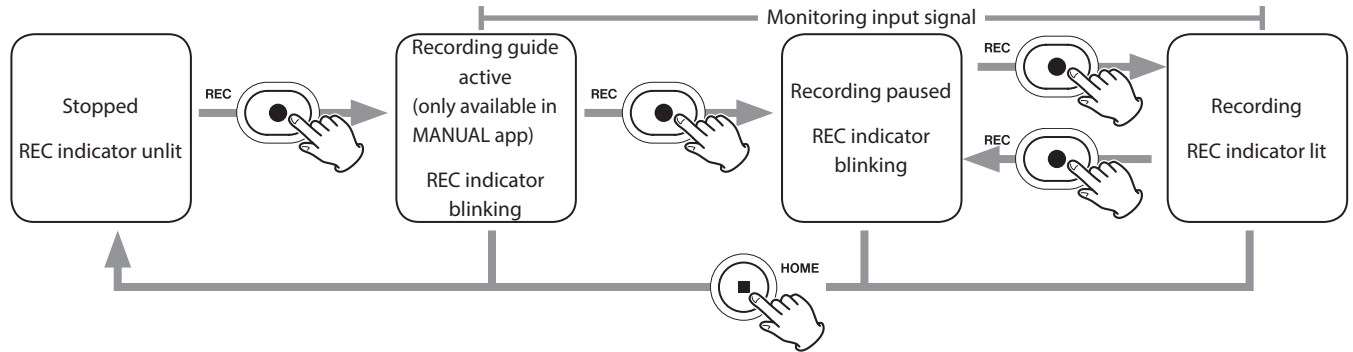
Recording operation flow

Depending on the RECORDING GUIDE¹ and REC PAUSE on/off settings, pressing buttons will have the following effects.

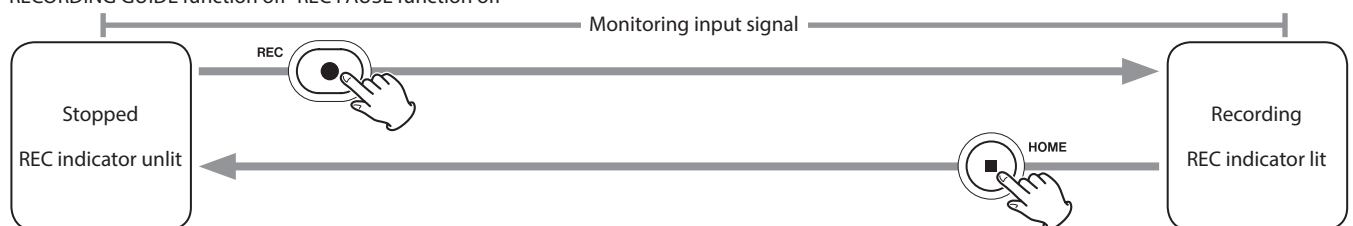
RECORDING GUIDE function on REC PAUSE function off



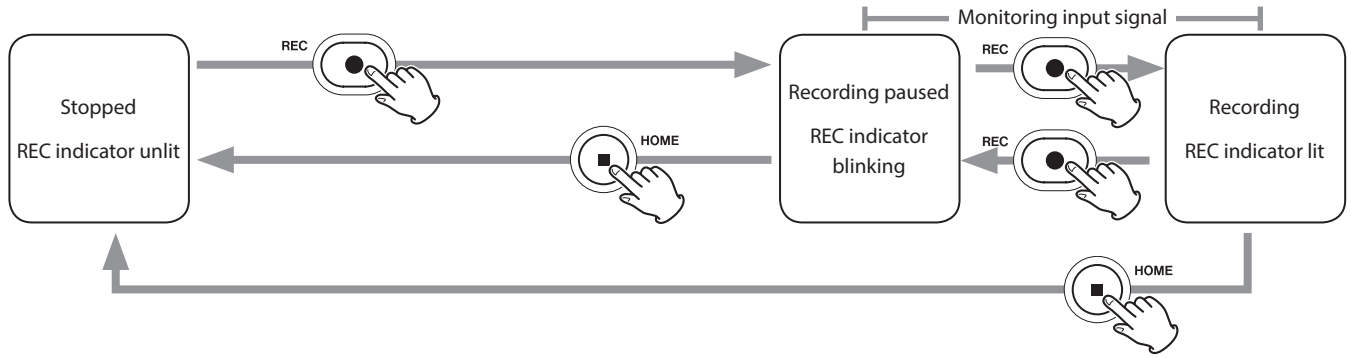
RECORDING GUIDE function on REC PAUSE function on



RECORDING GUIDE function off REC PAUSE function off



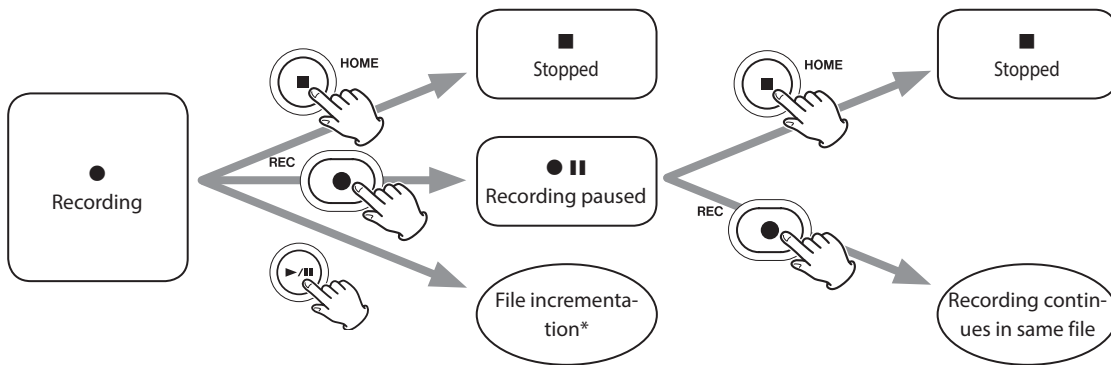
RECORDING GUIDE function off REC PAUSE function on



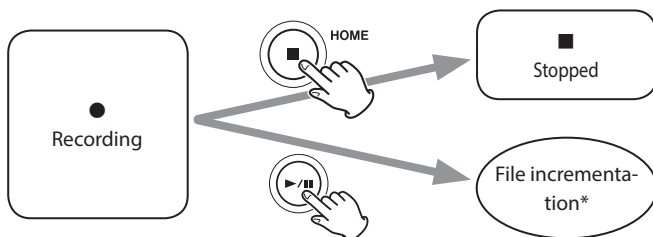
† The recording guide function can only be used with the MANUAL app. With apps other than the MANUAL app, the recording guide function will be disabled regardless of its on/off setting.

6-2 Button operations during recording

Recording pause function on



Recording pause function off



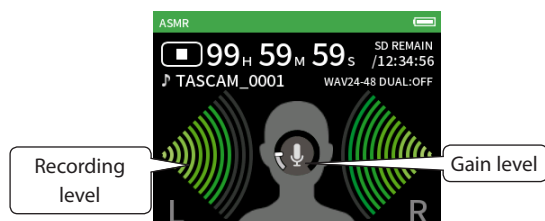
* See "Changing files while continuing to record (file incrementation function)" on page 35 for information about file incrementation.

6 - Recording apps

6-3 Recording with the ASMR app

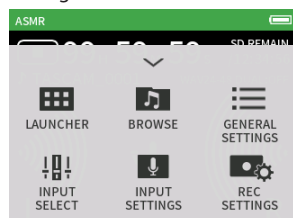
The screen effect changes in response to the input sound in this recording app. To emphasize the sense of stereo, we recommend recording with the built-in mics in A-B format. (“Setting the built-in mics” on page 17)

Screen overview



Shortcut Menu

Press the MENU button on the bottom left of the unit to show the following menu.



LAUNCHER

App switching and unit settings (page 9)

BROWSE

File operations (page 41)

GENERAL SETTINGS

Additional settings (page 54)

INPUT SELECT

Track number and input jack assignments (page 20)

INPUT SETTINGS

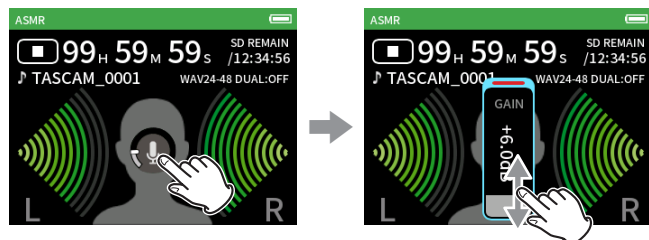
Input settings (page 20)

REC SETTINGS

Recording settings and operations (page 34)

Setting input levels

1. Tap the ring in the center of the screen.
2. Bring the mics closer to the recording subject. While checking the level meters, raise the GAIN as high as possible without causing the PEAK indicator to light.



NOTE

- If the input level exceeds -2 dB, the PEAK indicator on the unit will light.
- The recording sound might distort when the PEAK indicator lights.
- If the entire level meter becomes red, the analog circuit is overloading.
- After tapping the gain, the wheel can be turned to adjust it precisely.

6-4 Recording with the MANUAL app

This is the basic app of the unit. This enables multitrack recording of up to 4 channels.

Recording guide function (MANUAL app only)

To record, open the recording app shown on the LAUNCHER screen that suits the type of recording (see "App overview" on page 9).

After launching the recording app, the input levels of each track and their mix must also be set in order to record at suitable levels.

This unit has a recording guide function designed to prevent users from accidentally skipping important steps or doing them out of order. This function can only be used with the MANUAL app. (When shipped new the recording guide is on by default.)

After the MANUAL app is launched, operation procedures will be shown. Follow their instructions to make adjustments.

When the recording guide is active, setting screens open for the setting procedure below, enabling settings to be made in the correct sequence.

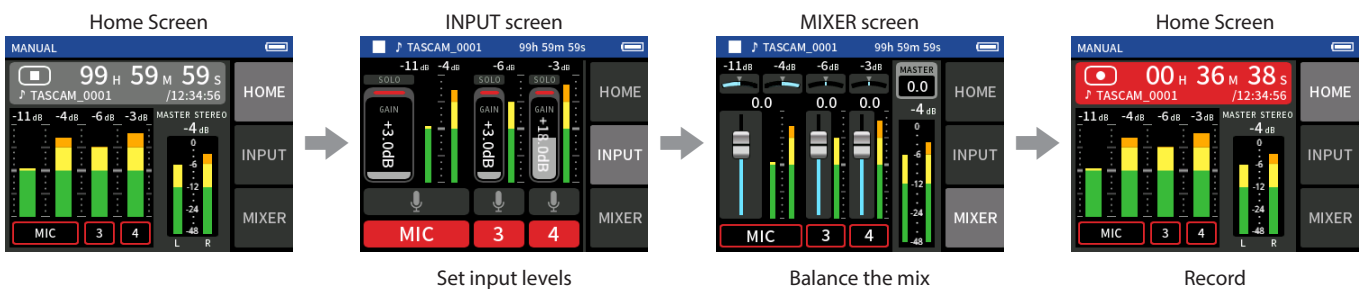
CAUTION

No guide related to input and output settings will be shown.

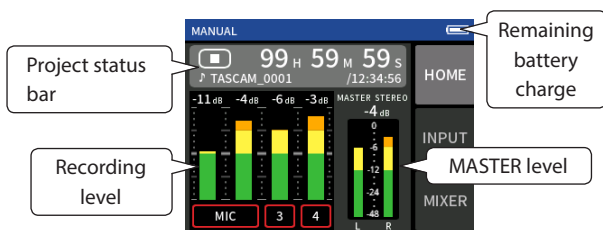
NOTE

- By default (recording guide activated), recording cannot be started before proceeding through the guided steps to the MIXER screen.
- If the recording guide is not needed, open the MANUAL app Home Screen, press the Shortcut Menu, and turn RECORDING GUIDE off. This enables recording to be started from other screens in addition to the MIXER screen.
- See "Recording operation flow" on page 24 for differences in recording operations when the recording guide function is on or off.
- Even when the recording guide is on, recording can be restarted from the MIXER screen and other screens when recording is paused.

Setting procedure

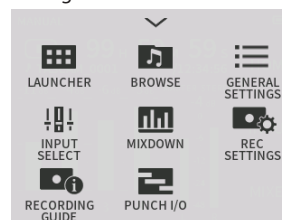


Screen overview



Shortcut Menu

Press the MENU button on the bottom left of the unit to show the following menu.



LAUNCHER

App switching and unit settings (page 9)

BROWSE

File operations (page 41)

GENERAL SETTINGS

Additional settings (page 54)

INPUT SELECT

Track number and input jack assignments (page 20)

MIXDOWN

(page 49)

REC SETTINGS

Recording settings and operations (page 34)

RECORDING GUIDE

(page 27)

PUNCH I/O

(page 35)

6 - Recording apps

Using the wheel

After tapping a GAIN, fader or pan control or the MASTER level, the wheel can be turned left and right to adjust the setting precisely.

This is convenient for precise adjustments after making rough value changes by sliding.

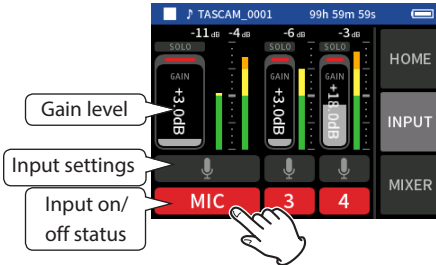
Setting input levels

1. Open the Home Screen, and press the REC [●] button on the unit. The REC indicator will blink.



When the recording guide mode and recording pause functions are both off, there is no need to press the REC [●] button. (page 24)

2. Tap the INPUT button on the right side of the screen to open the INPUT screen. Tap MIC, 3 or 4 to turn inputs on and off. When the FILE FORMAT is WAV, tracks that are on will be recorded.

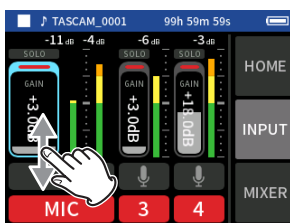


See “Making input settings for each input” on page 20 for details about input settings.

3. While watching the level meters, adjust the GAIN so that they average around -12 dB and the PEAK indicators do not light.

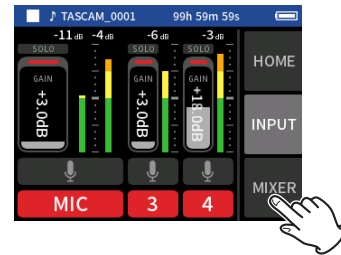
NOTE

- If an input level is too low the recorded sound will be quiet, but if it is too high the sound will be distorted (or break up).
- If the input level exceeds -2 dB, the PEAK indicator on the unit will light.
- The recording sound might distort when the PEAK indicator lights.
- If the entire level meter becomes red, the analog circuit is overloading.
- After tapping the GAIN, the wheel can be turned to adjust it precisely.



Using the mixer

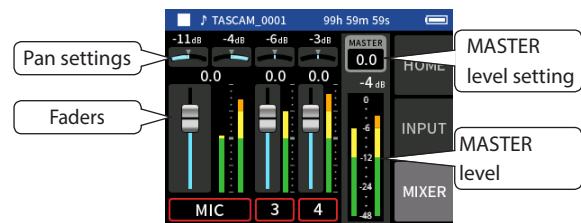
1. Tap MIXER at the right of the screen to open the MIXER screen.



2. Slide the faders of each track to adjust the balance of levels sent to the MASTER.

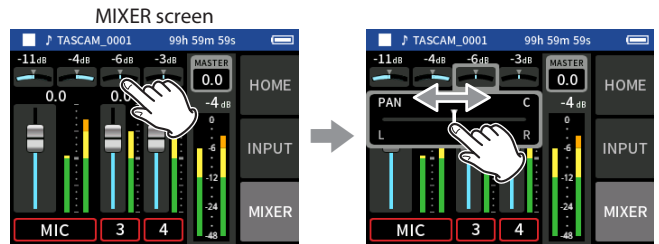
Faders

Use these to adjust the output levels of each track.



Pan settings

Use these to adjust the left-right volume balance.

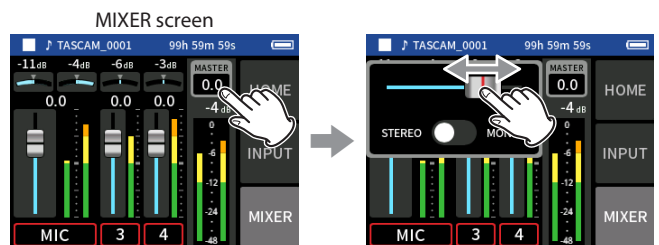


Tap a pan setting.

Slide the slider left and right to adjust the balance.

MASTER level setting

Use this to adjust the level of the mix of all tracks. After adjusting the balance of the individual track levels, use this when you want to adjust the overall level. Change the setting below the fader to MONO if you want to make the mix of all the tracks mono.



Tap the MASTER level setting.

Slide the fader left and right to adjust the level.

NOTE

The mix balance settings are saved when the current project is changed and when the unit is turned off.

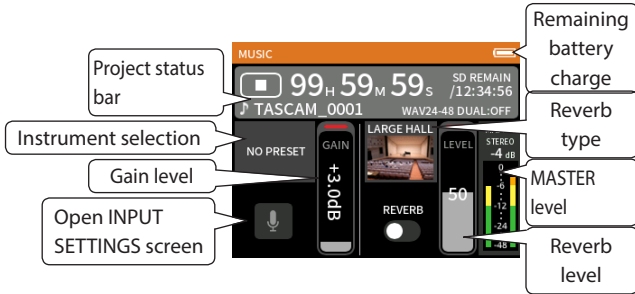
The master file stereo/mono setting, however, is not retained by this unit.

Always make this setting when recording.

6-5 Recording with the MUSIC app

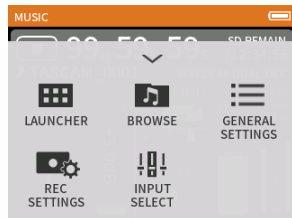
This recording app is good for easily capturing instrumental and vocal performances.

Screen overview



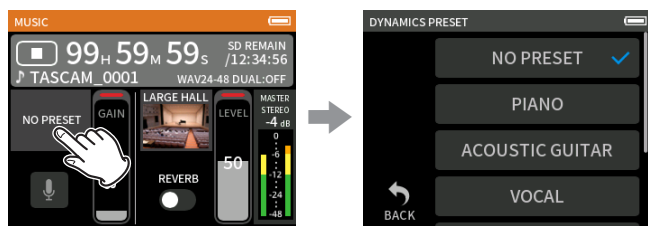
Shortcut Menu

Press the MENU button on the bottom left of the unit to show the following menu.



- LAUNCHER**
App switching and unit settings (page 9)
- BROWSE**
File operations (page 41)
- GENERAL SETTINGS**
Additional settings (page 54)
- REC SETTINGS**
Recording settings and operations (page 34)
- INPUT SELECT**
Track number and input jack assignments (page 20)

Selecting the type of instrument to record



Tap the instrument selection. Tap the desired instrument.

NO PRESET

This unaffected setting does not apply any dynamics preset to the sound.

PIANO

Designed for piano

ACOUSTIC GUITAR

Designed for acoustic guitar

VOCAL

Designed for singing

WIND INST.

Designed for wind instruments

STRINGED INST.

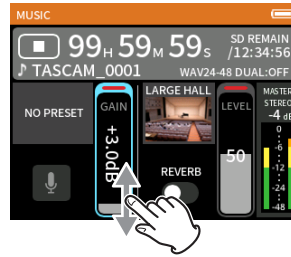
Designed for string instruments

BAND

Designed for band performances

- If none of the options match the desired instrument, select NO PRESET.

Setting the input level



While watching the level meter, adjust the GAIN so that the level averages around -12 dB and the PEAK indicator does not light.

NOTE

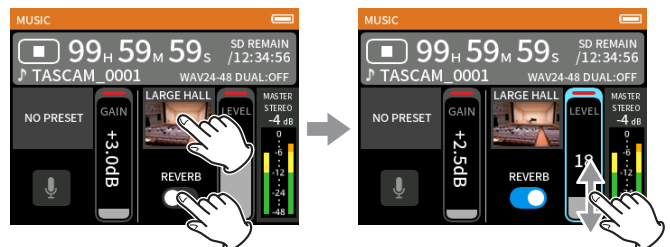
- If the input level exceeds -2 dB, the PEAK indicator on the unit will light.

- The recording sound might distort when the PEAK indicator lights.
- If the entire level meter becomes red, the analog circuit is overloading.
- Tap INPUT SETTINGS to adjust settings other than the input level. See “Making input settings for each input” on page 20 for details about settings.
- After tapping the GAIN, the wheel can be turned to adjust it precisely.

See “Making input settings for each input” on page 20 for details about input settings.

Adding reverb to the input (REVERB)

1. Tap the REVERB setting to turn it on.
2. Tap the REVERB TYPE to change the selection.
3. Slide the REVERB LEVEL fader to adjust its level.



NOTE

After tapping the REVERB, the wheel can be turned to adjust it precisely.

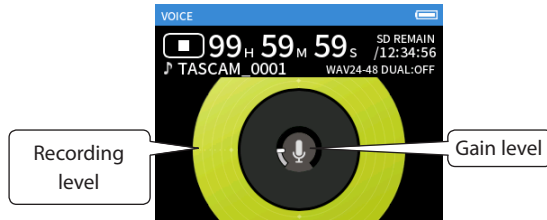
For details, see “Adding reverb to inputs (REVERB)” on page 22.

6 - Recording apps

6-6 Recording with the VOICE app

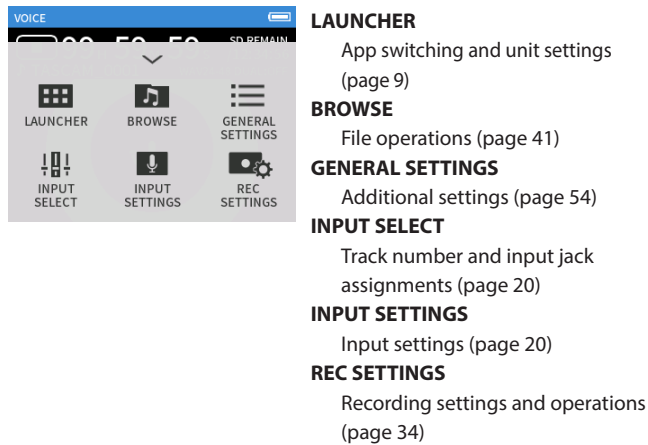
This recording app is good for recording audio for interviews and video blogs.

Screen overview



Shortcut Menu

Press the MENU button on the bottom left of the unit to show the following menu.

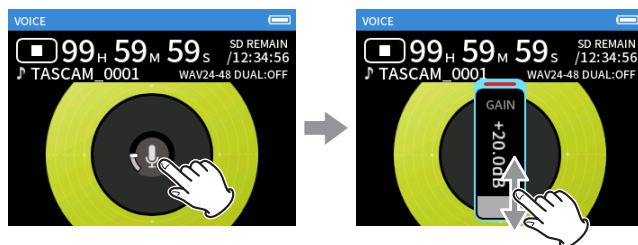


Setting the inputs

For details, see "Making input settings for each input" on page 20.

Setting the input level

1. Tap the ring in the center of the screen.
2. Speak toward the mic and adjust the GAIN so that the recording level display does not become red.



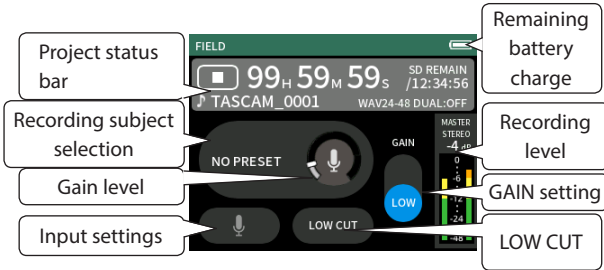
NOTE

- If the input level exceeds -2 dB, the PEAK indicator on the unit will light.
- The recording sound might distort when the PEAK indicator lights.
- If the entire level meter becomes red, the analog circuit is overloading.
- After tapping the GAIN, the wheel can be turned to adjust it precisely.

6-7 Recording with the FIELD app

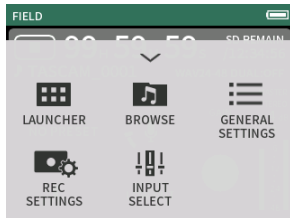
This app is good for recording outdoors.

Screen overview



Shortcut Menu

Press the MENU button on the bottom left of the unit to show the following menu.

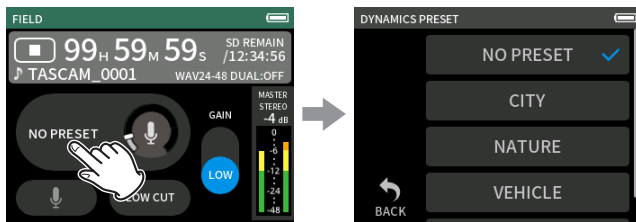


- LAUNCHER**
App switching and unit settings (page 9)
- BROWSE**
File operations (page 41)
- GENERAL SETTINGS**
Additional settings (page 54)
- REC SETTINGS**
Recording settings and operations (page 34)
- INPUT SELECT**
Track number and input jack assignments (page 20)

Setting the inputs

For details, see “Making input settings for each input” on page 20.

Selecting the recording subject



Tap the center of the screen.

Tap the recording subject.

NO PRESET

Use mic preamps as is (no processing)

CITY

Crowds and other urban sounds

NATURE

Rustling leaves, murmuring streams and other natural sounds

VEHICLE

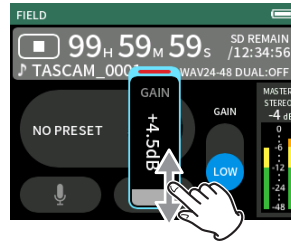
Trains, motorsports, etc.

BIRD

Wild bird calls and similar sounds

- If none of the options match the desired subject, select NO PRESET.

Setting the input level



While pointing the mic at the recording subject and watching the level meter, adjust the GAIN so that the level averages around -12 dB and the PEAK indicator does not light.

NOTE

- If the input level exceeds -2 dB, the PEAK indicator on the unit will light.
- The recording sound might distort when the PEAK indicator lights.
- If the entire level meter becomes red, the analog circuit is overloading.
- After tapping the GAIN, the wheel can be turned to adjust it precisely.

Tap INPUT SETTINGS to adjust settings other than the input level. See “Making input settings for each input” on page 20 for details about settings.

Changing the gain (GAIN)

Adjust the input gain using the LOW setting first. If the gain is insufficient, switch to HIGH and adjust the gain.

Setting the filter (LOW CUT)

The low-cut filter can reduce bothersome noise, such as from wind, air-conditioners and projectors.

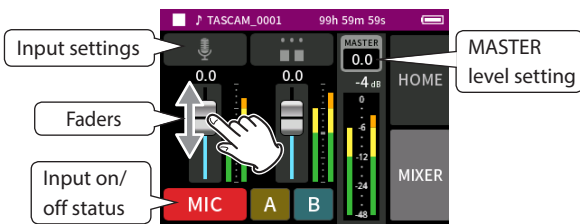
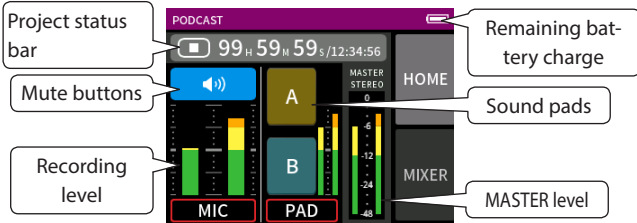
Set the cutoff frequency of the low-cut filter to match the noise.

6 - Recording apps

6-8 Recording with the PODCAST app

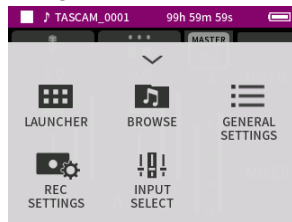
This app is good for recording podcasts with up to 2 people.

Screen overview



Shortcut Menu

Press the MENU button on the bottom left of the unit to show the following menu.



LAUNCHER

App switching and unit settings (page 9)

BROWSE

File operations (page 41)

GENERAL SETTINGS

Additional settings (page 54)

REC SETTINGS

Recording settings and operations (page 34)

INPUT SELECT

Track number and input jack assignments (page 20)

Using the wheel

After tapping a GAIN, fader or pan control or the MASTER level, the wheel can be turned left and right to adjust the setting precisely.

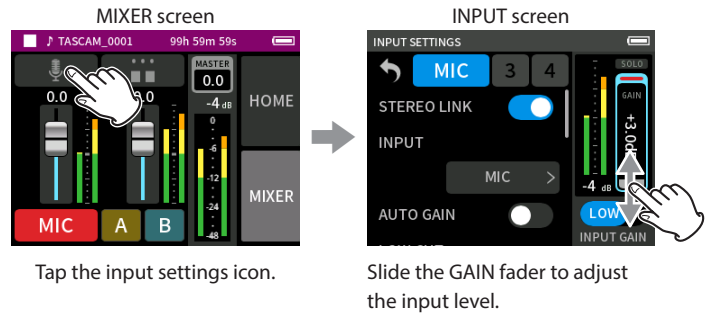
This is convenient for precise adjustments after making rough value changes by sliding.

Setting input levels

1. Open the MIXER screen.
2. Tap the input settings icon.
3. While inputting the voice and watching the level meters, adjust the GAIN so that they average around -12 dB and the PEAK indicators do not light.

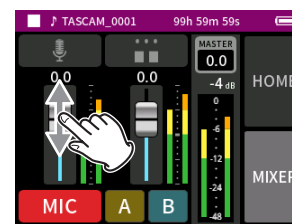
NOTE

- If the input level exceeds -2 dB, the PEAK indicator on the unit will light.
- The recording sound might distort when the PEAK indicator lights.
- If the entire level meter becomes red, the analog circuit is overloading.



Using the mixer

Slide the faders to adjust the mix balance.

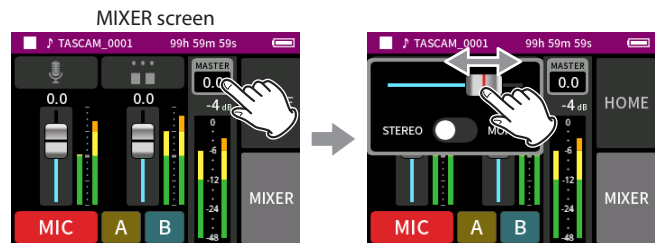


MASTER level setting

Use this to adjust the level of the mix of all tracks.

After adjusting the balance of the individual track levels, use this when you want to adjust the overall level.

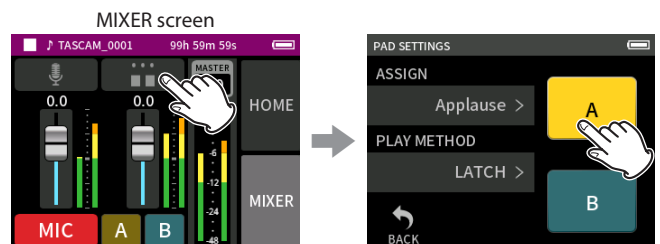
Change the setting below the slider to MONO if you want to make the mix of all the tracks mono.



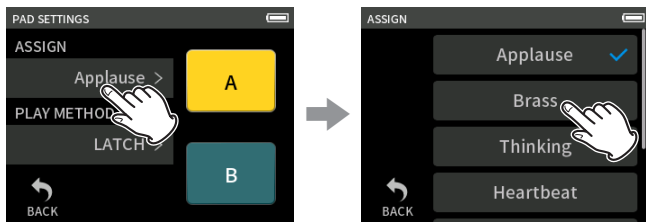
Making sound pad settings

Sounds can be assigned to the sound pads, and how they play when the buttons are pushed can be set.

Selecting the button to set



Setting the playback sound



Tap ASSIGN.

Tap the desired setting.

Applause

This plays sounds of clapping and cheering. This is assigned to yellow pads by default.

Brass

This plays a horn crescendo. This is assigned to green pads by default.

Thinking

This plays a short acoustic bass phrase.

Heartbeat

This plays the sound of a heart beating.

Ding dong

This plays a door chime twice.

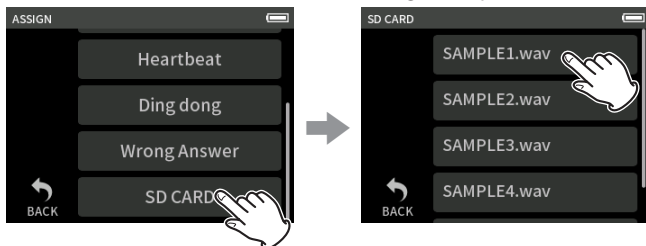
Wrong answer

This plays a buzzer twice.

SD CARD

microSD cards that have been formatted by this unit have a SOUND-PAD folder for pad sound sources. ("File and project structure overview" on page 40)

Sound files saved in this folder can be assigned to pads.



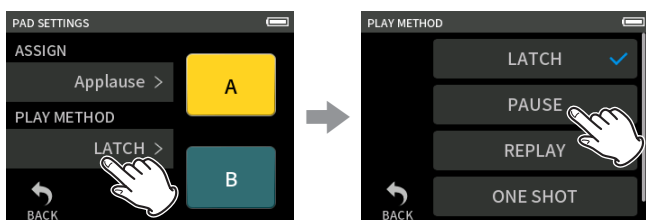
Tap SD CARD.

Tap the desired file.

NOTE

- Only sounds that are 48kHz/16-bit WAV format can be assigned to sound pads.
- If SD CARD sound sources have been assigned to sound pads, removing and inserting microSD cards or turning the unit off will reset these to the default settings of Applause and Brass.

Setting the playback method



Tap PLAY METHOD.

Tap the desired setting.

LATCH (default)

Press the pad to start playback from the beginning. Press that pad again to stop playback. Press that pad once again to restart playback from the beginning.

PAUSE

Press the pad to start playback from the beginning. Press it again to pause and once more to resume playback.

REPLAY

Press the pad to start playback from the beginning each time.

ONE SHOT

Press the pad to play from the beginning.

Pressing the pad again during playback will not stop playback.

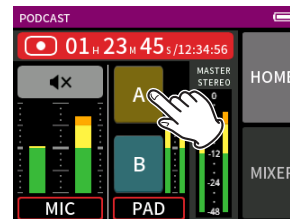
Press the pad continuously to force playback to stop.

REPEAT

Press the pad to start repeat playback from the beginning.

Press the pad again to stop playback.

Playing effect sounds during recording



Tap a sound pad to play the sound according to the set playback method.

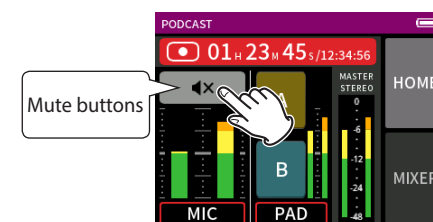
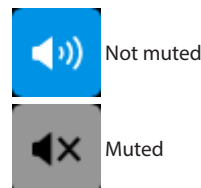
As it plays, the sound will be recorded to the master and pad track recording files.

NOTE

Sound pads cannot be played if an SD card is not loaded in the unit.

Muting mics

Press the mute buttons to mute and unmute channels.



Starting playback

NOTE

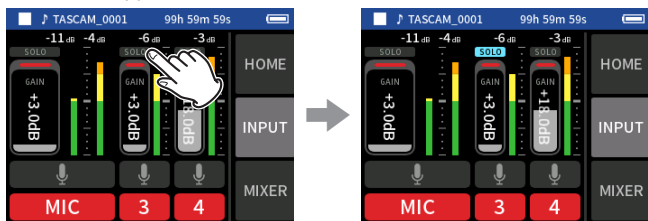
- If the file was recorded when the current project was using a two-channel recording app or the MANUAL app, the master file will be played.
- The podcast app can only play files that are 48kHz sampling frequency.

7 - Recording settings

7-1 Monitoring individual inputs (solo monitoring)

In the MANUAL app, tap the SOLO icon of a track on the INPUT screen to monitor it by itself.

MANUAL app INPUT screen

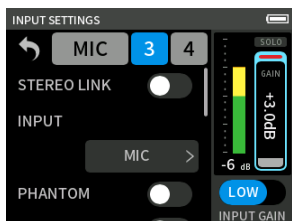


On the INPUT screen, tap the SOLO icon of a track to monitor it alone.

The background of the SOLO icon will become blue and only the sound of that track will be output for monitoring.

- Tap the SOLO icon for the selected track again to output the MASTER signal for monitoring.

When a SOLO button is tapped on the INPUT screen of the MANUAL or PODCAST app, the input channel shown will be enabled for solo monitoring (PFL).



NOTE

- If inputs are stereo linked, they will be monitored as a stereo source.
- Solo monitoring on the INPUT SETTINGS screen is AFL.

7-2 Changing the recording file format

Set this with the GENERAL SETTINGS screen > REC SETTINGS page > FILE FORMAT item.

FILE FORMAT

Select the file format.

CAUTION

The following restrictions apply to MP3 file formats.

- Only sampling frequencies of 44.1 and 48 kHz can be selected
- Only the master track will be recorded (track files will not be recorded)

SAMPLE

Select the sampling frequency.

BIT DEPTH/BIT RATE

Select the bit depth/rate.

32-bit float recording

This unit supports 32-bit float recording. Files recorded using 32-bit float have the following advantages when being edited afterward.

- The levels of quiet sounds can be raised without changing their original sound qualities.
- Sounds that seem clipped can be restored to unclipped sounds by lowering their volumes.

CAUTION

Analog clipping will not be changed when volume is lowered.

CAUTION

Only 48kHz/24-bit can be selected as the recording format in the PODCAST app.

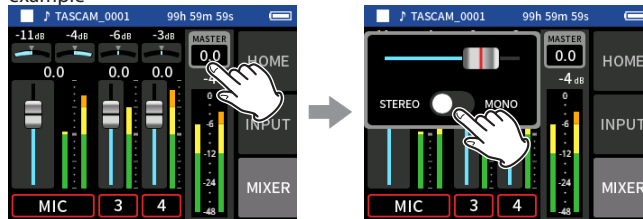
7-3 Recording in mono

Change the MASTER level setting on the MIXER screen.

- This setting is only possible when using the MANUAL and PODCAST apps.

MANUAL app MIXER screen

example



Tap the MASTER level setting.

Tap the STEREO/MONO switch to change the setting.

7-4 Pausing during recording (REC PAUSE)

See "Recording pause function" on page 24.

7-5 Starting recording automatically (AUTO REC)

Set this with the GENERAL SETTINGS screen > REC SETTINGS page > AUTO REC item.

This function can start recording automatically.

Recording starts automatically when the recording level exceeds a set level. In addition, the unit can be set to pause the current file or start a new file when the recording level goes below a set level.

AUTO REC

Recording will occur according to the following settings when this is on.

START LEVEL

This sets the recording level that starts recording.

When OFF is selected, press the REC [●] button to start recording.

END LEVEL

This sets the recording level that stops recording.

When OFF is selected, press the HOME [■] button to stop recording.

END DELAY

This sets the time until recording stops after the input goes below the END LEVEL.

If the recording level goes above the END LEVEL before this time elapses, recording will continue.

END MODE

This sets what happens if the START LEVEL is exceeded again after automatic recording has been started and the recording level has gone below the END LEVEL.

- SAME FILE: Recording continues in the same file
- NEW FILE: Recording starts in a new file

7-6 Recording with two settings at the same time (DUAL REC)

Set this with the GENERAL SETTINGS screen > REC SETTINGS page > DUAL REC item.

This enables recording with different formats.

MP3

FLOAT

In addition to the ordinary recording, recording with the selected format will also occur.

NOTE

- MP3 dual format recording cannot be used when the sampling frequency is 96 kHz.
- FLOAT dual format recording cannot be used when the MANUAL app is at 96 kHz.
- When on, the low-cut filter, noise gate, limiter, equalizer and phase inversion will affect both files.

7-7 Capturing a few seconds before starting recording (PRE REC)

Set this with the GENERAL SETTINGS screen > REC SETTINGS page > PRE REC item.

When the prerecording function is on and the unit is in recording standby, it can record up to two seconds of signal input before recording is started.

NOTE

When PRE REC is set to ON, REC PAUSE will also be set to ON.

7-8 Adjusting input levels automatically (AUTO GAIN)

Set this with the AUTO GAIN item on the INPUT screen of each app. This will automatically raise and lower the input level in response to the input signal volume. This is ideal for recording meetings and other situations when volume increases and decreases are not a problem.

7-9 Recording file naming

See "File name overview" on page 38.

7-10 Designating the folder use for recordings

See "File operations" on page 38.

7-11 Changing files while continuing to record (file incrementation function)

A file with a new number can be created automatically or manually.

NOTE

- The number at the end of the file name will increment every time a new file is created.
- If the name of a newly created file would be the same as that of an existing file, the number will be incremented until the new file has a unique name.
- A new file cannot be created if the total number of files and folders would exceed 5000.

Automatic

Set this with the GENERAL SETTINGS screen > REC SETTINGS page > TIME FILE INCREMENT item.

When the set time elapses during recording, recording in the current file will stop automatically and continue in a new file.

Manual

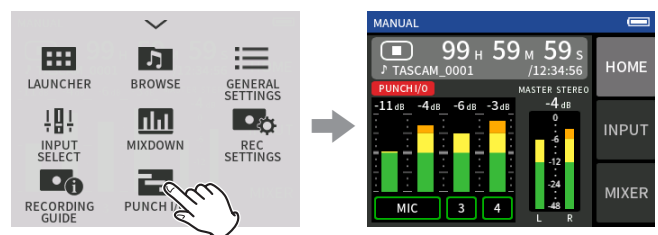
Press the ►/|| button on the unit while recording to start a new file manually.

7-12 Punch in/out (MANUAL app only)

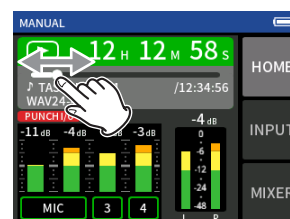
This function allows recording over part of a track in an already recorded project as well as adding recording in a track while listening to another track playing.

Punching in and out

1. Launch the MANUAL app, and select the current project, which will be used for punching in/out. See "SELECT" on page 42 for procedures to select the current file.
2. Tap the shortcut menu button, and select "PUNCH I/O" to activate punch in/out mode.

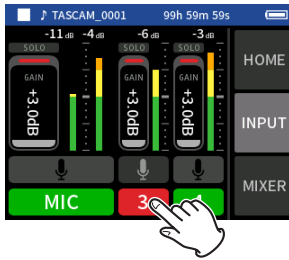


3. Play the project and determine the timing for overwriting in advance. Select a point where the overwritten audio can be combined well with the original track audio.



4. Open the INPUT screen, and ready the track to be overwritten for recording (red).

7 - Recording settings



- Press the REC [●] button at the moment to start overwriting. The overwriting of the track enabled for recording (red) will start. (Punch in.)
During recording, sound input on both the track being overwritten (red) and the playback tracks (green) can be monitored.
- At the end of the section to be overwritten, press the HOME [■] button to stop recording. (Punch out.)
This stops the unit.
- Tap the shortcut menu button, and select "PUNCH I/O OFF" to deactivate punch in/out mode.

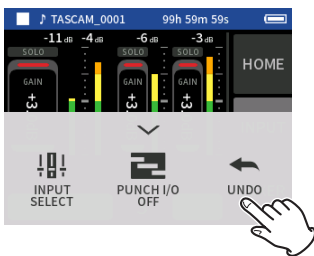
NOTE

- Since punching in/out overwrites part of a track, the audio of the master file will also be updated to reflect the change.
- When punching in/out, "MIC/EXT IN" and "USB" cannot be assigned to recording tracks as new inputs.

Undoing punching in and out (UNDO)

The most recent punch in/out recording can be undone. (UNDO)

- When in punch in/out mode, tap the shortcut menu button at the bottom left of the unit, and select "UNDO".



A message confirming execution of the UNDO operation will pop up.

- Select YES.
The recording will be returned to the state before the last punch in/out operation was conducted.

Canceling UNDO operations (REDO)

- After conducting an UNDO operation, tap the shortcut menu button at the bottom left of the unit, and select "REDO".



A message confirming execution of the REDO operation will pop up.

- Select YES.
The unit will be restored to the state after the last punch in/out recording was conducted.

NOTE

- UNDO and REDO can only be used on the most recent punch in/out recording.
- If punch in/out mode is ended or the unit is turned off, the data used for UNDO and REDO operations will be lost, making them no longer possible.

7-13 Recording times (in hours: minutes)

| File format (recording setting) | Card capacity | | |
|---------------------------------|------------------|-------------------|--------|
| | 32GB (microSDHC) | 128GB (microSDXC) | |
| 320kbps MP3 (stereo) | 44.1 kHz | 222:13 | 888:53 |
| 16-bit WAV (stereo) | | 50:23 | 201:33 |
| 24-bit WAV (stereo) | 96kHz | 15:25 | 61:43 |
| 32-bit float WAV (stereo) | 96kHz | 11:34 | 46:16 |

- The recording times shown above are estimates. They might differ depending on the microSD card in use.
- The recording times shown above are not continuous recording times, but rather they are the total possible recording times for the microSD card.
- If recorded in mono, maximum recording times will be about double those above.
- If using dual recording, maximum recording times will be shorter than those above.

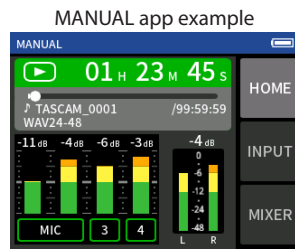
NOTE

If the size of a file exceeds 4 GB during recording, a new file will be created and recording will continue in that file (file incrementation). See "File name overview" on page 38 for information about file names.

8-1 Opening the playback screen

When a recording app screen is open, press the ►/|| button to play the last recorded file.

Recording app screen open



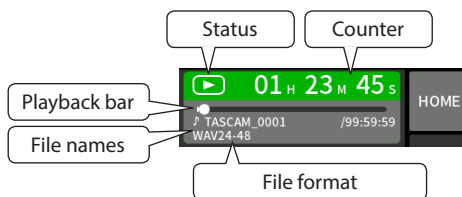
Press the ►/|| button.

The last recorded file will play back.

- In the MANUAL and PODCAST apps, the track files will be played and the sound will be output from the mixer. For this reason, track output levels can be changed by adjusting the mixer settings to affect the output sound. ("Adjusting the mix balance of the tracks" on page 37)
- In the ASMR, MUSIC, VOICE and FIELD apps, master files will be played back.
- When using the PLAY menu on the BROWSE screen, master files will be played back regardless of the app used for recording.

Screen overview

Project status bar



Playing and pausing

When stopped or paused, press the ►/|| button to start playback.



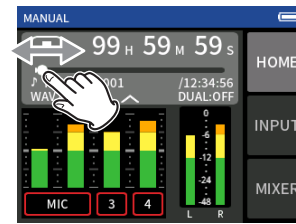
Stopping playback

During playback, press the HOME [■] button to stop playback.



Changing the playback position

Slide the playback slider to the desired playback position.



Selecting files for playback

Use the ◀◀ and ▶▶ buttons to select a file for playback.

Pressing the ◀◀ button during playback will return to the beginning of the file. Pressing the ◀◀ button at the beginning of a file will skip to the beginning of the previous file.

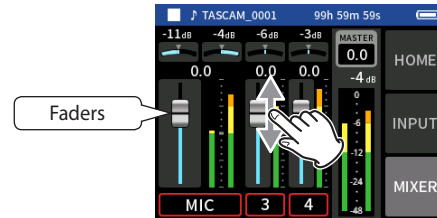
If you press the ▶▶ button when located at the beginning or middle of a file, the playback position will skip to the beginning of the next file.

Searching backward and forward

Use the ◀◀ and ▶▶ buttons to search backward and forward.

Adjusting the mix balance of the tracks

This operation is possible when using the MANUAL and PODCAST apps. Open the MIXER screen, and slide the faders as desired to adjust the mix balance.



Each project will play back with the mix balance used when it was recorded.

Changes to a mix balance during playback will not be saved.

Use the mixdown function to change the mix balance of a project that has already been recorded. ("Mix down function" on page 49)

CAUTION

The mix balance will not be saved properly if the microSD card is removed from the unit during operation.

9- File operations

Recording data is saved in the SOUND folder on the microSD card. The two types of recording data are track files and master files. The types of files saved depend on the recording app. For details, see "Recording app output files" on page 11. This unit can record and play wav (including BWF) and mp3 files.

9-1 File name overview

Files recorded by this unit are named as described below.

Project name Track number
└──────────┬──┘
TASCAM_0001_1.wav
└──┬──┘ └──┬──┘
Characters set by user File number

Characters set by user

When TYPE is set to DATE

YYMMDD (YY: year, MM: month, DD: date)

Two digits each are used for the year (last two), month and date.

When TYPE is set to WORD

A string of 6–9 characters can be specified as wanted.

The default value is "TASCAM".

The usable characters are as follows.

Uppercase and lowercase alphabet letters numerals 0–9, and the following symbols:

! # \$ % & ' () + , - . : ; = @ [] ^ _ ` { } ~ (space)

File numbers

This shows the order recorded.

The default value is "0001".

For dual files

DUAL FORMAT

FLOAT: File number+F

MP3: File number+M

For mixdown files

File number + MIX + number of times

For divided files

File numbers + _A and _B

For files divided by marks

File number + number of times (_01, _02, _03...)

Track number

This shows which track was recorded. This is only added to track files.

When stereo-linking off

Track number 1, 2, 3, 4, 5, 6

When stereo-linking on

Linked track numbers 1–2, 3–4, 5–6

For master files

2-channel apps: None

MANUAL/PODCAST app: _MIX

Project name

This is the characters set by the user and the file number connected by an underscore (_).

Since the file number is increased each time a file is recorded, the project also changes with each recording. See "Project overview" on page 41 for details.

File name examples

The tables below show how, starting with the following conditions, files are named according to the settings.

Characters set by user: TYPE set to WORD (TASCAM)

File number: 0001

With 2-channel recording apps (ASMR, MUSIC, VOICE, FIELD)

| Settings | File names | File types |
|---------------|-----------------|-------------|
| 1st recording | TASCAM_0001.WAV | Master file |
| 2nd recording | TASCAM_0002.WAV | Master file |

With MANUAL and PODCAST apps

| Settings | File names | File types |
|--|--|---|
| Tracks 1–4 set to mono | TASCAM_0001_1.WAV TASCAM_0001_2.WAV TASCAM_0001_3.WAV TASCAM_0001_4.WAV TASCAM_0001_MIX.WAV (master files are always created) | Track file Track file Track file Track file Master file |
| Tracks 1–2 and 3–4 stereo-linked | TASCAM_0001_1-2.WAV TASCAM_0001_3-4.WAV TASCAM_0001_MIX.WAV (master files are always created) | Track file Track file Master file |
| Tracks 1–2 set to mono Tracks 3–4 stereo-linked | TASCAM_0001_1.WAV TASCAM_0001_2.WAV TASCAM_0001_3-4.WAV TASCAM_0001_MIX.WAV (master files are always created) | Track file Track file Track file Master file |
| Dual files (handled as separate projects) | DUAL FORMAT (FLOAT) TASCAM_0001_1.WAV TASCAM_0001F_1.WAV | |
| | DUAL FORMAT (MP3) TASCAM_0001_1.WAV TASCAM_0001M_1.MP3 | |
| File division | TASCAM_0003_1-2.WAV ↓ TASCAM_0003_A_1-2.WAV (treated as separate project) TASCAM_0003_B_1-2.WAV (treated as separate project) | Manually-divided file Manually-divided file |
| | TASCAM_0003_1-2.WAV ↓ TASCAM_0003_01_1-2.WAV (treated as separate project) TASCAM_0003_02_1-2.WAV (treated as separate project) | Mark-divided file Mark-divided file |

With MANUAL app

| Settings | File names | File types |
|---------------|---|--|
| Mixdown files | TASCAM_0002_1.WAV TASCAM_0002_2.WAV TASCAM_0002_3.WAV TASCAM_0002_4.WAV When the 4 files above are mixed down ↓ TASCAM_0002MIX.WAV (created as separate project) TASCAM_0002MIX2.WAV (created as separate project distinct from the first) | Track file Track file Track file Track file Mixdown file Mixdown file |

9 - File operations

Changing how files are named

Set this with the GENERAL SETTINGS screen > SYSTEM page > FILE NAME item.



EXAMPLE

The result of the current settings can be checked here.

TYPE

Set the characters used at the beginning of the file name.

DATE

The DATE is added to the file name.

YYMMDD (YY: year, MM: month, DD: date)

Two digits each are used for the year (last two), month and date.

WORD

The 6–9 characters set with WORD EDIT are added to the file name.

The default value is "TASCAM".

WORD EDIT

Use this to input the file name.

For details about character input, see "App overview" on page 9.

NOTE

If DATE is selected, the file name will be created using the date and time of the unit's internal clock. Set the clock in advance to enable recording with the correct date and time.

Resetting the file number

Set this with the GENERAL SETTINGS screen > SYSTEM page > FILE NAME item.

FILE No. RESET setting

Off (default)

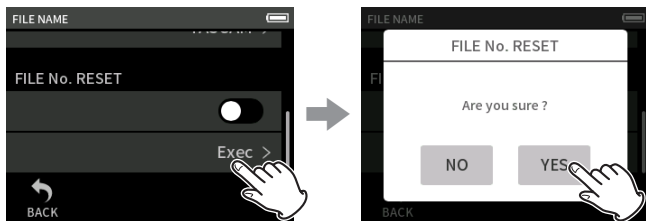
The file number will not be reset.

On

The file number will automatically be reset when formatting, creating a new folder, or deleting all the files in a folder.

Exec

This will reset the file number the next time a file is created.



Tap Exec.

Tap YES.

9-2 File and project structure overview

Folders

Formatting microSD cards with this unit will create SOUND, UTILITY and SOUNDPAD folders.

Recording data is saved in the SOUND folder.

Folders can be created inside the SOUND folder.

Create them as necessary. (page 41)

Recording data

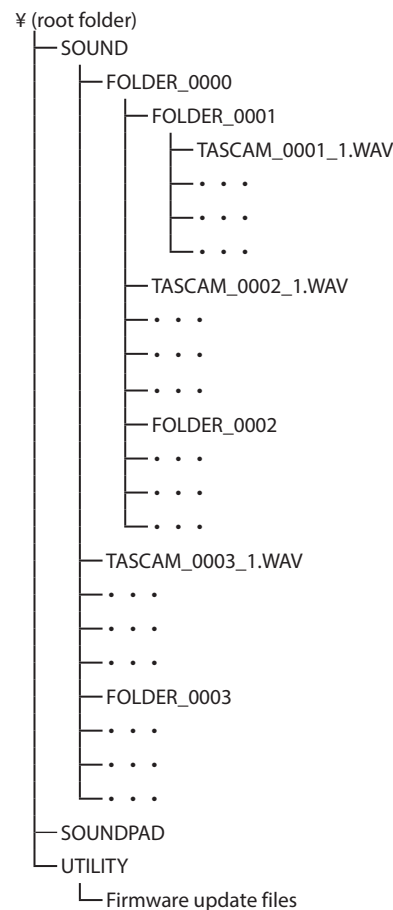
Recorded data is saved in the current folder.

After a microSD card is formatted, the SOUND folder becomes the current folder.

To change the current folder, select the folder on the BROWSE screen, and tap OPEN. ("Setting where recording files are saved" on page 44)

9-3 Folder hierarchy example

This illustration is an example of the folder hierarchy on a microSD card used with this unit.



- SOUND, UTILITY and SOUNDPAD folders will be created automatically during formatting.
- Only two levels of subfolders can be created.
- The maximum total number of files and folders is 5000.
- Everything in the SOUND folder and its subfolders is shown on the BROWSE screen.

9-4 Project overview

The track and master files created during a single recording are referred to collectively as the project.

Files belong to the same project if the characters set by the user through the file numbers in their names are the same. See "File name overview" on page 38 for details about project names. The way project names are given can be changed in the same manner as for file names. ("Changing how files are named" on page 40)

Example

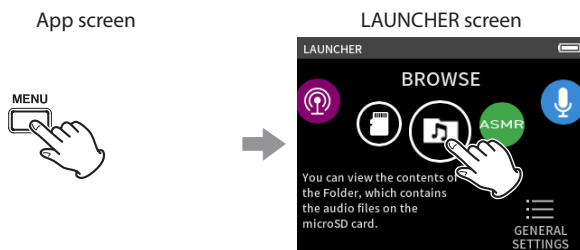
| Project name | Files in the same project | File types |
|--------------|---------------------------|-------------|
| TASCAM_0001 | TASCAM_0001_1.WAV | Track file |
| | TASCAM_0001_2.WAV | Track file |
| | TASCAM_0001_3.WAV | Track file |
| | TASCAM_0001_4.WAV | Track file |
| | TASCAM_0001_MIX.WAV | Master file |
| TASCAM_0002 | TASCAM_0002.WAV | Master file |

- Track files might not be created depending on the recording app. See "Recording app output files" on page 11 for details.
- Individual files not created by this unit and loaded from a computer or other source are each treated as a single project.

9-5 Using the BROWSE screen

When an app screen is open, press the Shortcut Menu button at the bottom left of the unit to open the BROWSE screen.

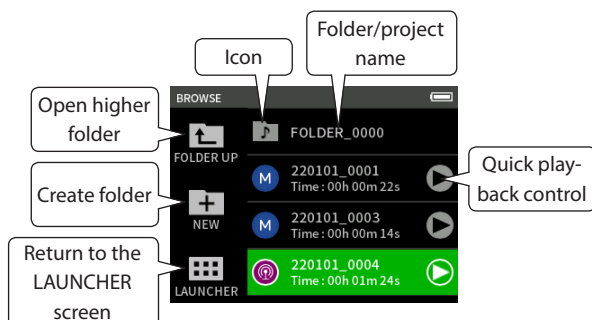
Alternatively, tap the BROWSE icon on the LAUNCHER screen.




Press the Shortcut Menu button at the bottom left of the unit, and tap the BROWSE icon.

9-6 Folder operations

Screen overview





Icon

The apps used to record files on this unit are shown with icons. Folders are shown with .

Folder/file name

Tap this to open the folder menu or file menu.

Quick playback control

Tap  to start playback, and tap  to stop playback.

Folder menu

OPEN

This shows the contents of the folder.

RENAME

This opens the RENAME screen where the folder name can be edited.

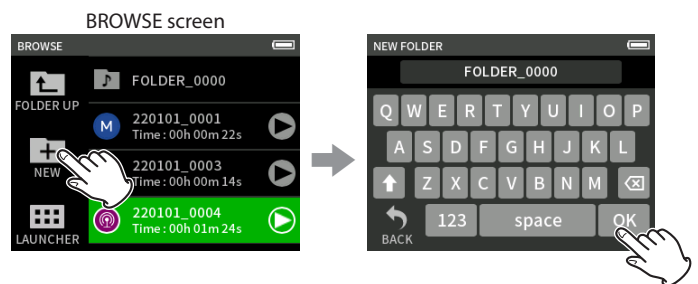
ALL FILES DELETE

This deletes all projects and files inside the folder. Folders, however, will not be deleted.

FOLDER DELETE

This deletes the folder and the files and folders inside it.

Creating folders (NEW)



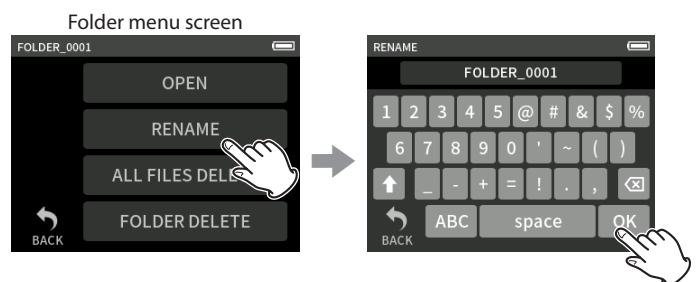
Tap the NEW icon.

Tap OK to create a folder with the name shown.

- If a folder named FOLDER+number already exists, tapping the NEW icon will show FOLDER+(number+1) as the default value. If you want to change this name, delete it once and input it again.
- See "Character input" on page 13 for how to input characters.

Changing the names of folders (RENAME)

Tap the desired folder on the BROWSE screen, and do the following.



Tap RENAME.

Input the folder name and tap OK.

- See "Character input" on page 13 for how to input characters.
- In folder names, 1–11 characters can be changed.

9 - File operations

Deleting all files in a folder (ALL FILES DELETE)

1. Tap the desired folder on the BROWSE screen.
2. Tap ALL FILES DELETE.

NOTE

The selected folder will not be deleted.

Deleting folders (FOLDER DELETE)

1. Tap the desired folder on the BROWSE screen.
2. Tap FOLDER DELETE.

NOTE

Folders that have files remaining in them cannot be deleted. Delete all the files in the folder before deleting the folder.

9-7 File and project operations

File menu

SELECT

This sets the selected file as the current project.

PLAY

This plays the master file of the selected project.

FILE INFORMATION

This shows information about files in the project.

FILE DELETE

This deletes the file.

TRACK DELETE

Use this to select and delete track files in the project.

- This is shown when a recorded file is selected in the MANUAL or PODCAST app.

CHANGE PROTECT

Use this to activate/deactivate the protection of files in the project.

RENAME

Project names can be changed.

- Only projects that have been recorded by this unit can be changed. The number of characters can be changed to between 6 and 9.

MARK

This opens a list of the marks.

DIVIDE

Use this to divide files.

NORMALIZE

Use this to normalize files.

SELECT

The selected file becomes the current project, and the app used for recording appears on the Home Screen.

Press the ►/|| button to play track files in the current project.

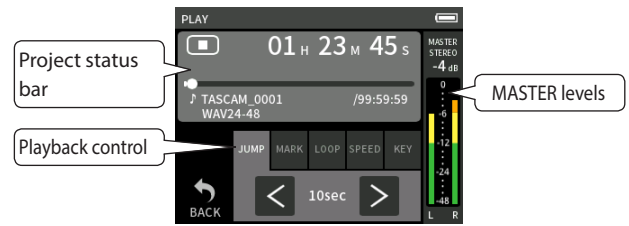
NOTE

If a file not created by this unit is selected, it will be played using the MANUAL app.

Current project

The name of the file shown in the project status bar is the current project. Conducting recording or playback will switch the current project.

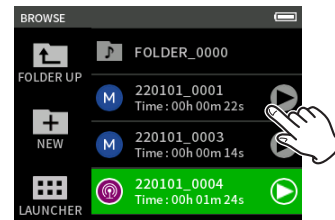
Playing master files(PLAY)



1. Tap the name of the file to play on the BROWSE screen.
2. Tap PLAY.
This opens the PLAY screen.
3. Press the ►/|| button on the unit.

NOTE

- Tapping the quick playback ► button on the BROWSE screen will also start playback.



- Starting playback from the BROWSE screen will play the master file.
To adjust the mix balance during playback of tracks recorded using the MANUAL or PODCAST app, set the project to be played as the current project (see previous section), open the MIXER screen of that app, and press the ►/|| button on the unit. ("Adjusting the mix balance of the tracks" on page 37)

Jumping 10 seconds backward/forward

Tap the JUMP playback control, and tap the | and ; buttons to jump.

Jumping to mark locations

1. Tap the MARK playback mode tab.



2. Tap < or > to jump.

Tap the flag icon to select which marks to use when skipping between marks.

ALL

Skip between all marks

MANUAL

Skip between marks that were added manually

LEVEL

Skip between LEVEL marks that were added using the automatic mark function

TIME

Skip between TIME marks that were added using the automatic mark function

PEAK

Skip between marks added when a PEAK indicator lit.

BOF

Skip between marks added when microSD card write errors occurred during recording

NOTE

- See "Playing files" on page 37 to view the mark list or delete them all at once.

Looping playback

Intervals between two points in a single file can be played repeatedly (loop playback).

1. Tap the LOOP playback mode tab.
2. When playing or paused, tap the IN button to set the playback starting point.
The playback starting point (IN) will be shown on the playback bar.
3. When playing or paused, tap the OUT button to set the playback ending point.
The playback ending point (OUT) will be shown on the playback bar.
Playback will start from the playback starting point.

NOTE

Returning to the Home Screen will clear the playback starting (IN) and ending (OUT) points.

Ending loop playback

Tap the LOOP RESET button at the bottom of the screen to clear the playback starting and ending points.

Changing the playback speed (VSA playback)

1. Tap the SPEED playback mode tab.
2. Tap the DOWN and UP buttons to adjust the playback speed as desired.

Changing the playback pitch (KEY)

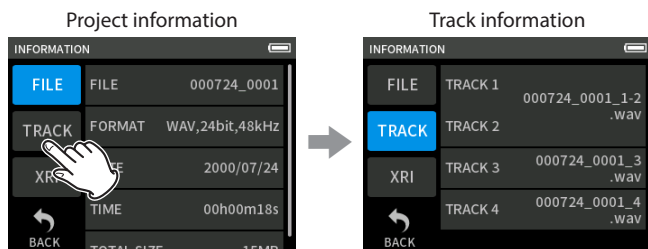
1. Tap the KEY playback mode tab.
2. Tap ♭ or # to adjust the pitch.

NOTE

VSA playback and pitch change functions cannot be used with 96kHz playback files.

Viewing file details (FILE INFORMATION)

1. Tap the name of the file to view on the BROWSE screen.
2. Tap FILE INFORMATION.
Information about the selected file will be shown.



Tap TRACK.

FILE

This shows the project name, recording format, recording date, playback time and file size.

TRACK

This shows all the track files in the project. If the project has no track files or was not recorded by this unit, only the master file will be shown.

Deleting files and projects (FILE DELETE)

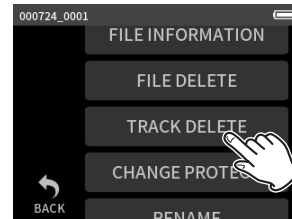
1. Tap the name of the project to delete on the BROWSE screen.
2. Tap FILE DELETE.

NOTE

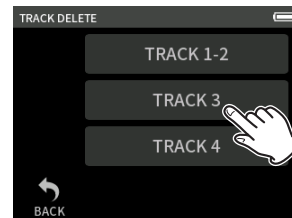
A protected (read only) file cannot be deleted.

Deleting tracks in projects (TRACK DELETE)

1. Tap the name of the project to delete on the BROWSE screen.
2. Tap TRACK DELETE.



3. Tap all the track files to be deleted.



NOTE

- Tracks can only be deleted in projects recorded using the MANUAL and PODCAST apps.
- VSA playback and pitch change functions cannot be used with 96kHz playback files.
- Deletion of the contents of tracks does not affect master files.

Enabling and disabling protection (CHANGE PROTECT)

Project protection can be enabled and disabled.

1. Tap the name of the file to change protection for on the BROWSE screen.
2. Tap CHANGE PROTECT.
This enables or disables protection.

NOTE

Lock marks (🔒) will be shown to the bottom right of icons for files that are protected

Changing names (RENAME)

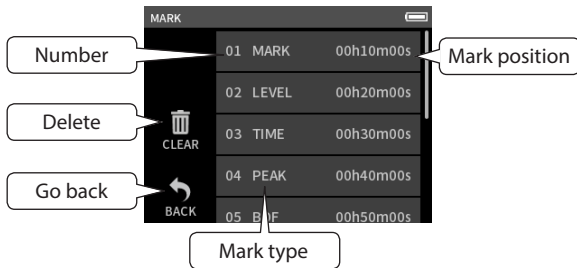
Project names can be changed.

1. Tap the name of the project to change on the BROWSE screen.
 2. Tap RENAME.
 3. Input the new project name and tap OK.
- See "Character input" on page 13 for how to input characters.

9 - File operations

Viewing the mark list (MARK)

1. Tap the name of the file to view on the BROWSE screen.
2. Tap MARK.
A list of marks will be shown



See “Mark functions” on page 45 for information about mark types.

Deleting marks

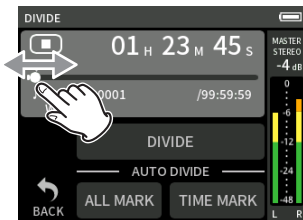
Tap the trashcan icon to delete all marks.

NOTE

See “Deleting marks” on page 45 for details about the deleting individual marks.

Dividing files (DIVIDE)

1. Tap the name of the project to divide on the BROWSE screen.
2. Tap DIVIDE.
3. Move the pointer on the playback bar to the division point and pause playback.
Move the playback pointer by, for example, playing the file, searching forward/backward, and sliding it along the playback bar.



4. Tap DIVIDE.

NOTE

- If the project has track files, the track files will also be divided.
- Tap ALL MARK to divide the file at every mark position.
- Tap TIME MARK to divide the file at every mark added by the automatic mark function TIME option.
- Only files in projects that have been recorded by this unit can be divided.
- MP3 files cannot be divided.
- The DIVIDE function does not affect PEAK marks.

Normalizing recordings (NORMALIZE)

This function finds the loudest volume in a recorded file and raises the volume of all the recording data so the loudest volume is at the maximum level.

1. Tap the name of the file to normalize on the BROWSE screen.
2. Tap NORMALIZE.

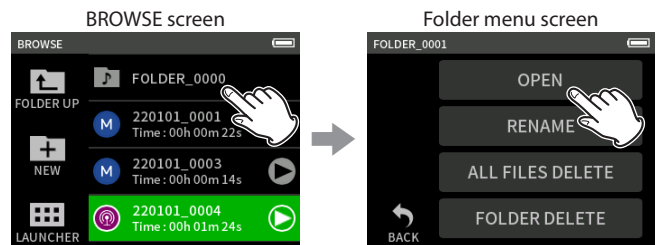
NOTE

- Since the data of the selected project will be overwritten, it cannot be restored.
- Only files recorded by this unit can be normalized.
- This function is applied to master files. It does not affect track files.

9-8 Setting where recording files are saved

Recording data is saved in the current folder.

Follow the procedures below to select a folder and make it the current folder.



Tap the folder to make current.

Tap OPEN.

NOTE

When the current file is selected, its folder becomes the current folder.

10-1 Mark types

The types of marks and conditions when they are added are as follows.

Manual

Marks added manually

LEVEL

Marks added when input signal exceeds specified level

TIME

Marks added when set time elapses

PEAK

Marks added when input signal exceeds peak level

BOF

Marks added when microSD card write errors occur during recording

10-2 Adding marks

Adding marks manually

When playing, recording or in recording standby, press the unit MARK button to add a mark at any point.



When a mark is added, a pop-up with mark information appears at the bottom of the display.

Adding marks automatically (AUTO MARK)

Set this with the GENERAL SETTINGS screen > OTHER SETTINGS page > AUTO MARK item.

OFF

Marks will not be added automatically.

LEVEL

Marks will be added automatically when the input signal exceeds the set level.

TIME

Marks will be added automatically when the set time elapses during recording.

Adding marks when peak levels occur (PEAK MARK)

Set this with the GENERAL SETTINGS screen > OTHER SETTINGS page > PEAK MARK item.

When this is on, marks will be added automatically when input signals exceed the peak level during recording. This can be used after recording to find parts where the peak level was exceeded.

10-3 Deleting marks

A mark can be deleted by pressing the MARK button when stopped or paused at its position. When a mark is deleted, a pop-up with information about the deleted mark appears at the bottom of the display.

Deleting all marks

See "Deleting marks" on page 44.

10-4 Jumping to set marks (mark skipping)

See "Jumping to mark locations" on page 42.

NOTE

Marks in different files cannot be skipped to.

10-5 Dividing files at every mark

See "Dividing files (DIVIDE)" on page 44.

10-6 Opening mark lists

See "Viewing the mark list (MARK)" on page 44.

11 - Camera functions

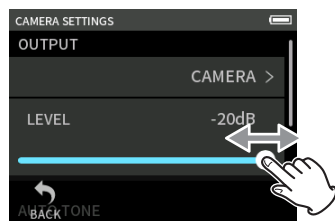
11-1 Setting the output for camera use

Set this with the GENERAL SETTINGS > CAMERA SETTINGS > OUTPUT item.

When connecting the LINE OUT jack to a camera, LINE OUT jack output can be attenuated -20 to -30 dB. This enables inputting audio to the camera at a suitable level.

When OUTPUT is set to CAMERA, the output from the LINE OUT jack is attenuated -20 dB.

Slide the LEVEL slider left and right to adjust the attenuation in a range from -20 to -30 dB.



11-2 Using the auto tone function (AUTO TONE)

Set this with the GENERAL SETTINGS screen > CAMERA SETTINGS > AUTO TONE item.

The auto tone function can be used to automatically insert a tone signal whenever recording starts and stops.

By connecting the LINE OUT jack on the left side of the unit to the audio input jack of a camera, both units can record the same tone signals to their files. These tones can be used as guides to synchronize files in video editing software.

Setting the AUTO TONE function

Set where tone signals are inserted.

OFF

No tone signals are inserted.

HEAD

Tone signals are only inserted at the start of recording.

HEAD+TAIL

Tone signals are inserted at both the start and end of recording.

Adjusting the tone volume

Set the tone volume.

The default value is -12 dB.

12-1 Connecting with computers

See “Connecting computers and smartphones” on page 19.

12-2 Connecting with iOS devices

To connect with an iOS device, a Lightning to USB Camera Adapter and a USB cable (Type-A to Type-C) are necessary.

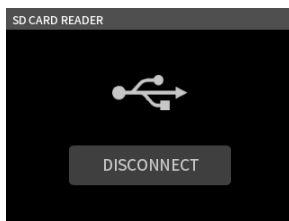
NOTE

- This unit will not provide power to an iOS device when they are connected.
- Set the power supply to battery power.

12-3 Accessing microSD cards from a computer

On the GENERAL SETTINGS screen OTHER SETTINGS page, select the SD CARD READER item.

The unit display will change. The microSD card in the unit can be accessed when it is recognized by the computer.



Exchanging files with computers

Click the “X6” drive on the computer to show the SOUND, SOUND PAD and UTILITY folders.

To transfer files from the computer, drag and drop the desired audio files on the computer to the SOUND folder. To transfer files from the microSD card to the computer, drag and drop the desired audio files from the SOUND folder to any folder on the computer.

TIP

- The SOUND folder can be managed from the computer.
- Subfolders can be created in the SOUND folder. Only two levels of subfolders can be created. This unit cannot recognize subfolders and audio files on the third level or below.

NOTE

Follow the procedures specified for the computer to disconnect the unit from it.

12-4 Using the ASIO driver

A Portacapture X6 ASIO driver can be used with Windows. Check the page for this product on the TASCAM website (<https://tascam.jp/int/>) for details.

NOTE

With a Mac, the standard OS driver will be used, so there is no need to install any software.

12-5 Using as an audio interface

This unit can be used as a USB audio interface by connecting it to a computer using a USB cable.

- Sound played back on this unit can be output over USB.

When a microSD card is loaded

1. Manually set this unit and the computer to use the same sampling frequencies.
“Changing the recording file format” on page 34 for procedures to change the sampling frequency of this unit.
2. After changing the sampling frequency, starting recording or recording standby will cause audio to be transmitted.

When a microSD card is not loaded

This unit will operate using the sampling frequency of the computer.

Portacapture X6 USB audio channel assignments

| USB channels | Signals |
|--------------|---|
| USB IN 1-2 | Stereo mix |
| USB IN 3-4 | Input signals from either inputs 1-2 or MIC/EXT IN according to selection |
| USB IN 5-6 | Inputs 3-4 |

- The signals sent over USB vary according to the type of recording app being used and the input on/off settings.

MANUAL, PODCAST

Signals assigned to tracks with input on and a stereo mix are sent over USB.

ASMR, MUSIC, VOICE, FIELD

Signals assigned to TRACK 1-2 and a stereo mix are sent over USB.

- Settings affect USB audio signals as follows.

| Menu item | Function | USB IN 3-6 (inputs 1-4) | USB IN 1-2 (MIX) |
|--------------------|---------------------|----------------------------|---------------------|
| INPUT SETTINGS | GAIN (AUTO GAIN) | ○ | ○ |
| | LOW CUT | - | ○ |
| | NOISE GATE | - | ○ |
| | LIMITER/COMP | - | ○ |
| | EQ | - | ○ |
| MIXER | PHASE INVERT | ○ | ○ |
| | Faders (tracks 1-4) | - | ○ |
| | Fader (MASTER) | - | ○ |
| | Pan settings | - | ○ |
| I/O SET- TINGS | STEREO/MONO | - | ○ |
| | MIC TRIM | ○ | ○ |
| | MS DECODE | - | ○ |
| | Reverb (tracks 1-4) | - | ○ |
| CAMERA SETTINGS | REVERB (MASTER) | - | ○ |
| | AUTO TONE | - | ○ |

○: Affect signals

-: Do not affect signals

12 - USB connection

12-6 Using the unit as a USB mic

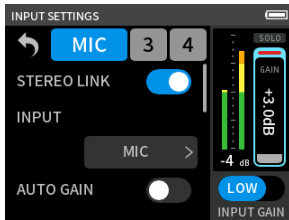
By connecting this unit with a computer using a USB cable, you can use it as a USB mic for online communication and streaming, for example. Up to 4 inputs can be used with the MANUAL app.

NOTE

The automatic power saving function is disabled when in USB audio interface mode.

Inputting sound to the computer using the unit inputs

1. Use a USB cable to connect the computer and the unit.
2. Set the audio input device to "Portacapture X6" on the computer. Set this unit and the computer to use the same bit depths and sampling frequencies.
3. Launch the recording app to be used.
If using the MANUAL or PODCAST app, enable input of the tracks assigned to the input jacks to be used as computer inputs.



If using the ASMR, MUSIC, VOICE or FIELD app, signals from the input jacks assigned to TRACK 1-2 in the INPUT SELECT settings will automatically be used as the computer inputs. Signals from other input jacks will not be input to the computer.

Using the computer output as sound input to this unit

1. Use a USB cable to connect the computer and the unit.
2. Set the audio input device to "Portacapture X6" on the computer. Use the same sampling frequency settings for both the unit and the computer.
3. Launch the MANUAL or PODCAST app.
4. Select INPUT SELECT from the Shortcut Menu, and select USB for tracks to assign sound from the computer to them. (page 20)
5. Enable input of tracks that have USB assigned.



CAUTION

Completing these procedures in addition to the procedures in "Inputting sound to the computer using the unit inputs" above could cause feedback if input monitoring is enabled in the software being used (DAW or calling/streaming app, for example). This might cause sudden loud noises, which could damage the equipment or harm hearing.

When returning the input sound of this unit back to it from a computer, turn input monitoring off in the software and apps on the computer.

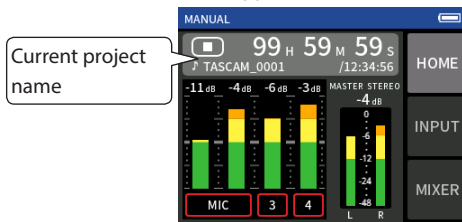
NOTE

Adjust the USB volume from the computer.

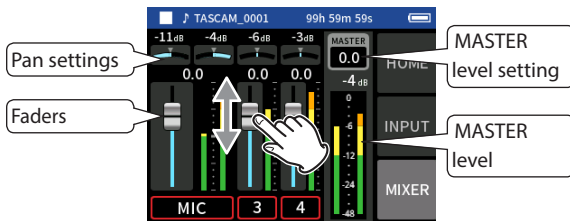
13-1 Mix down function

In the MANUAL app, the volume levels and panning settings of each track in an existing project can be adjusted to create a new mix.

1. Launch the MANUAL app.



2. Make the project to be mixed down the current project. See "SELECT" on page 42 for procedures to select the current file.
3. While the current project is playing, use faders, panning and other controls on the MIXER screen to adjust the volume and stereo positioning of each track. See "Using the mixer" on page 28 for adjustment procedures.



4. Tap the Shortcut Menu (MENU) button at the bottom left of the unit, and tap MIXDOWN to start the mixdown.



5. A master file of the mix will be created in a new project.

NOTE

- See "File name overview" on page 38 for information about the names of mix down files.
- Only files recorded by this unit can be mixed down.

13-2 Using the mid-side decoding function

In the MANUAL app, mid-side mics can be used for recording, and their recordings played back.

See "Connecting mid-side mics" on page 18 for details about connecting mid-side mics to this unit.

Connection settings

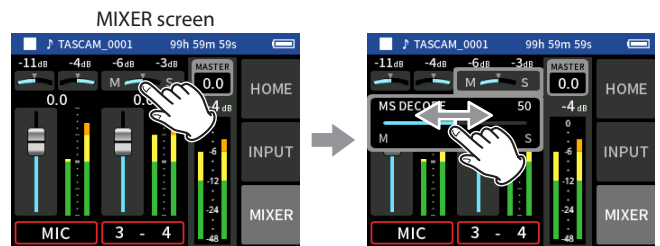
Set the jacks that the mid-side mics are connected to using the GENERAL SETTINGS screen > I/O SETTINGS> MS DECODE item.

NOTE

- The mid-side decoding function can be used when inputting mid-side mics through the 3/4 input jacks and when using this unit to play an imported file recorded using mid-side mics. Turn the mid-side decoding function off to not use it.
- Always stereo-link the inputs to which mid-side decoding is applied. See "Using the STEREO LINK function" on page 20 for operation procedures.

Adjusting mid and side levels

1. Launch the MANUAL app, and open the MIXER screen. The pan settings for the tracks selected for MS DECODE will become the MS decode setting.
2. Tap the MS decode setting, and slide the slider left and right to adjust the width of the sound. At 0, the sound will be 100% mid (M). The amount of side (S) increases with the value.



Tap the MS decode setting.

Slide the slider left and right to adjust the width of the sound.

14- Controller app

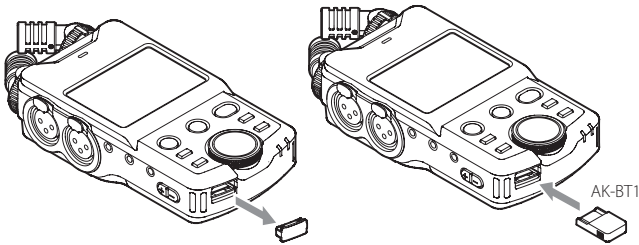
When an AK-BT1 Bluetooth adapter is connected to the Bluetooth device connector of this unit, this unit can be controlled from an iOS/Android device using a controller app.

14-1 Installing the dedicated controller app

1. Connect the device to the Internet.
 2. Search for "Portacapture Control" on Google Play for an Android device or on the App Store for an iOS device. Then, download and install it.
- Please be aware that you are responsible for any transmission costs related to Internet connection.

14-2 Connecting with this unit using Bluetooth

1. Remove the cover from the Bluetooth connection device port on this unit, and install an AK-BT1 in it.



- Insert it so that the connector is toward the screen.

2. Enable Bluetooth connection on the smartphone or tablet.

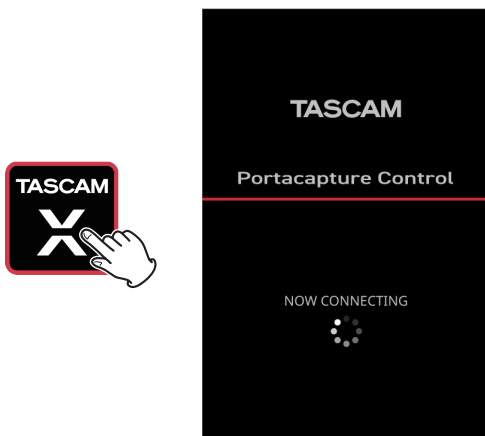
CAUTION

- Do not execute pairing from the Bluetooth device list screen of an iOS/iPadOS or Android device.
Always launch Portacapture Control and use it for pairing.
- When using an Android device, set Location to "On", and set "Location permission" for Portacapture Control to "Allow all the time" or "Allow only while in use".

NOTE

Refer to the operation manual of the Bluetooth device for procedures.

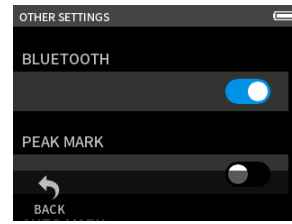
3. Use the smartphone or tablet to launch Portacapture Control.



Bluetooth device screen

4. If the unit is not turned on, turn it on.

5. On the unit, turn the GENERAL SETTINGS screen > OTHER SETTINGS page > BLUETOOTH item on.

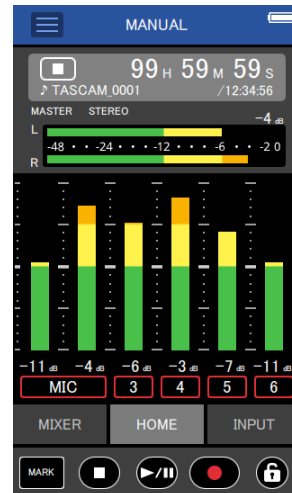


The AK-BT1 access indicator (blue) shows the connection status.

| Indicator | Status |
|-----------|-----------------|
| Unlit | Not paired |
| Blinking | Waiting to pair |
| Lit | Paired |

When connection completes, the display of the smartphone or tablet will automatically switch to the operation screen.

14-3 Using the dedicated smartphone app



The four buttons at the bottom of the screen correspond to the physical buttons on the unit, and tapping them performs the same functions.

- MARK: MARK button
- : HOME[■] button
- ▶/||: ▶/|| button
- : REC[●] button

NOTE

- Monitoring recording is not possible on paired devices. Use the headphone jack on the unit.
- Touch and hold the lock icon to activate the hold function, which prevents operation from Portacapture Control.
In this state, the buttons and touchscreen on the unit can still be operated.
Touch and hold the lock icon when the hold function is active to deactivate it.
- In the following circumstances, the touchscreen on the unit and the app screen on the smartphone will not be synchronized. Only the screen on the operated device will be updated.
 1. GENERAL SETTINGS screen 2nd level and deeper
 2. BROWSE screen 2nd level and deeper
 3. Moving to MANUAL/PODCAST app right tabs
 4. Moving to PLAY screen bottom tabs
 5. Detailed settings when tapping counter area

In addition, when touch operations are conducted on the following screens, the screen on the device that was not being used will show the progress and will not respond to touch operations.

1. INPUT SETTINGS
2. INPUT SELECT
3. PAD SETTINGS

NOTE

Even if the display does not update, the setting operated by touch will be applied to the unit.

15 - Various settings

15-1 Adjusting gain differences between built-in mics (mic trim function)

Set this with the GENERAL SETTINGS screen > I/O SETTINGS page > MIC TRIM item.

This adjusts the sensitivity of the built-in mics.

Use this function to make adjustments when the volumes of the left and right built-in mics are noticeably different because the source cannot be recorded from the front, for example.

Input 1

Options: -3 dB, -2 dB, -1 dB, 0 dB (default value), 1 dB, 2 dB, 3 dB

Input 2

Options: -3 dB, -2 dB, -1 dB, 0 dB (default value), 1 dB, 2 dB, 3 dB

15-2 XRI function overview

This can be set using the GENERAL SETTINGS screen > SYSTEM page > XRI item.

When this is on, files recorded in WAV format will have recording setting information, including input volumes, saved in them as XRI (eXtended Recording Information) data.

- The XRI data recorded can be checked on the FILE INFORMATION screen. (page 43)

NOTE

XRI data cannot be saved when recording MP3 files.

15-3 Showing various information

Select the GENERAL SETTINGS screen > SYSTEM page > INFORMATION item.

CARD

This shows information about the microSD card.

SYSTEM

This shows the firmware and hardware versions.

15-4 Resetting the date and time

Select the GENERAL SETTINGS screen > SYSTEM page > DATE/TIME item, and adjust the settings. See "Setting the language, date and time" on page 16 for operation procedures.

15-5 Resetting the language

Select the GENERAL SETTINGS screen > SYSTEM page > LANGUAGE item, and adjust the setting.

NOTE

Turn the unit on while pressing and holding the HOME button on the unit to open the language selection screen.

15-6 Resetting the unit to its factory defaults.

Select the GENERAL SETTINGS screen > SYSTEM page > INITIALIZE item, and conduct initialization.

15-7 Formatting microSD cards

Select the GENERAL SETTINGS screen > SYSTEM page > MEDIA FORMAT item, and conduct formatting. See "Formatting (initializing) microSD cards" on page 16 for operation procedures.

15-8 Using the automatic power saving function

This can be set using the GENERAL SETTINGS screen > POWER/DISPLAY page > AUTO POWER item.

When on, the unit automatically turns off after 30 minutes have elapsed since the last activity or operation.

NOTE

This function only works when the unit is stopped. This function will not cause the unit to turn off during recording or playback.

15-9 Selecting the power source

This can be set using the GENERAL SETTINGS screen > POWER/DISPLAY page > POWER SOURCE SELECT item.

BATTERY

Operate using battery power. Do not use USB power supply.

AUTO (DEFAULT)

USB power supply will be used when available.

CAUTION

When connecting this unit with an iOS device, set this to BATTERY.

NOTE

Always put batteries in this unit before selecting BATTERY as the power source.

15-10 Setting the AA battery type (BATTERY)

This can be set using the GENERAL SETTINGS screen > POWER/DISPLAY page > BATTERY item.

Use this to set the type of battery used.

This setting is used to show the amount of remaining battery charge and determine if the unit has enough power for normal operation.

ALKALI

Alkaline batteries (default)

Ni-MH

Nickel-metal hydride batteries

LITHIUM

Lithium batteries

15-11 Power saving (energy conservation) mode

This can be set using the GENERAL SETTINGS screen > POWER/DISPLAY page > POWER SAVE MODE item.

POWER SAVE MODE

When this is on, the settings will become as follows, reducing power consumption.

BACKLIGHT: 30 sec

BRIGHTNESS: MID

INDICATORS: PEAK LED OFF

CONTRAST: 10

Phantom voltage: All off (not shown)

Sampling frequencies: Only 44.1/48kHz sampling frequencies can be selected (A pop-up message will not be shown.)

BACKLIGHT

This sets the display backlight.

OFF: Backlight always off

5-30 sec: Backlight turns off automatically after set time without operation

ALWAYS: Backlight always on

BRIGHTNESS

This sets the display brightness.

INDICATORS

This sets how the REC and PEAK indicators light.

ALL ON: Both REC LED and PEAK LED light.

PEAK LED OFF: The PEAK LED will not light.

REC LED OFF: The REC LED will not light.

ALL OFF: Both REC and PEAK LEDs will not light.

CAUTION

POWER SAVE MODE will not be turned off automatically. When switching to a power supply with 1.5 A current or higher, turn the POWER SAVE MODE off as necessary.

NOTE

When the POWER SAVE MODE setting is off, BACKLIGHT, BRIGHTNESS and INDICATORS settings can be made.

15-12 Adjusting the display contrast (CONTRAST)

This can be set using the GENERAL SETTINGS screen > POWER/DISPLAY page > CONTRAST item.

Slide the slider left and right to set the contrast between 0 and 20.

15 - Various settings

15-13 MENU

GENERAL SETTINGS

| Category | Menu item | Settings | Reference | |
|---------------------|--|--|--|--------------------------------------|
| REC SETTINGS | FILE FORMAT | WAV (default), MP3 | page 34 | |
| | WAV FILE FOR-MAT | SAMPLE | | 44.1kHz, 48kHz (default), 96kHz |
| | | BIT DEPTH | | 16bit, 24bit (default), 32-bit float |
| | MP3 FILE FOR-MAT | SAMPLE | | 44.1kHz, 48kHz (default) |
| | | BIT DEPTH/BIT RATE | 128Kbps, 192kbps, 256kbps, 320kbps (default) | |
| | REC PAUSE | OFF (default), ON | page 24 | |
| | AUTO REC | OFF (default), ON | page 34 | |
| | - START LEVEL | OFF, -6dB, -12dB (default), -24dB, -48dB | | |
| | - END LEVEL | OFF, -6dB, -12dB, -24dB, -48 dB (default) | | |
| | - END DELAY | 1sec, 2sec, 3sec, 4sec, 5sec (default) | | |
| | - END MODE | SAME FILE (default), NEW FILE | | |
| | DUAL REC | OFF (default), MP3, FLOAT | page 35 | |
| | PRE REC | OFF (default), ON | page 35 | |
| TIME FILE INCREMENT | OFF (default), 5 min, 10 min, 15 min, 30 min, 60 min | page 35 | | |
| I/O SETTINGS | PHANTOM voltage | +24V, +48V (default) | page 22 | |
| | PLUG IN POWER | OFF (default), ON (STEREO), ON (MONO) | | |
| | MIC TRIM | | page 52 | |
| | - MIC L | -3dB, -2dB, -1dB, 0dB (default), 1dB, 2dB, 3dB | | |
| | - MIC R | -3dB, -2dB, -1dB, 0dB (default), 1dB, 2dB, 3dB | | |
| | SPEAKER | OFF (default), ON | page 19 | |
| | MS DECODE | OFF, TRACK 1-2, TRACK 3-4 | page 49 | |
| | REVERB | OFF (default), ON | page 22 | |
| | - TYPE | LARGE HALL (default), SMALL HALL, ROOM, STUDIO, PLATE 1, PLATE 2 | | |
| | - SOURCE | TRACK 1-2, TRACK 3-4, MIX (default) | | |
| - LEVEL | 0 - 50 (default) - 100 | | | |
| CAMERA SETTINGS | OUTPUT | LINE (default), CAMERA | page 46 | |
| | - LEVEL | -10 - 0 dB (default) | | |
| | AUTO TONE | OFF (default), HEAD, HEAD + TAIL | page 46 | |
| | - LEVEL | -12dB, -18dB (default), -24dB -30dB, -36dB | | |
| OTHER SETTINGS | BLUETOOTH | OFF (default), ON | page 50 | |
| | PEAK MARK | OFF (default), ON | page 45 | |
| | AUTO MARK | OFF (default), LEVEL, TIME | page 45 | |
| | - LEVEL | -6dB, -12dB (default), -24dB, -48dB | | |
| | - TIME | 5min, 10min, 15min, 30min, 60min (default) | | |
| | SD CARD READER | EXECUTE | page 47 | |

| Category | Menu item | Settings | Reference |
|-----------------|--|--|-----------|
| SYSTEM | INFORMATION | CARD | |
| | | - TOTAL FILE | |
| | | - TOTAL FOLDER | |
| | | - TOTAL SIZE | |
| | | - USED SIZE | |
| | | - REMAIN SIZE | |
| | | SYSTEM | |
| | | - F/W | |
| | - H/W | | |
| | XRI | OFF, ON (default) | page 52 |
| | DATE / TIME | Set the date and time (yyyy / mm / dd HH : MM : SS) | page 52 |
| FILE NAME | - TYPE: DATE (default), WORD | page 40 | |
| | - WORD EDIT: TASCAM (default) | | |
| | - FILE No. RESET: OFF, ON (default) | page 40 | |
| | Exec | | |
| LANGUAGE | ENGLISH (default), 日本語, FRANCAIS, ESPANOL, DEUTSCH, ITALIANO, 中文, 한글, русский язык | page 52 | |
| INITIALIZE | EXECUTE | page 52 | |
| MEDIA FORMAT | QUICK FORMAT, ERASE FORMAT | page 52 | |
| POWER / DISPLAY | AUTO POWER SAVE | OFF, ON (default) | page 53 |
| | POWER SOURCE SELECT | BATTERY, AUTO (default) | page 53 |
| | BATTERY | ALKALI (default), Ni-MH, LITHIUM | page 53 |
| | POWER SAVE MODE | OFF (default), ON | page 53 |
| | - BACKLIGHT | OFF, 5sec, 10sec, 15sec, 30sec, ALWAYS (default) | |
| | - BRIGHTNESS | LOW, MID (default), HIGH | |
| | - INDICATORS | ALL ON (default), PEAK LED OFF, REC LED OFF, ALL OFF | |
| | CONTRAST | 0 – 10 (default) – 20 | page 53 |

INPUT SETTINGS

| Category | Menu item | Settings | Reference |
|--|------------------------------------|--|-----------|
| INPUT GAIN | GAIN | | page 22 |
| | - MIC | LOW (0–36 dB), HIGH (14–50 dB) | |
| | - 3/4 | LOW (0–35 dB), HIGH (22–57 dB) (in 0.5dB steps) | |
| | - MIC/EXT IN | 0–38 dB (in 0.5dB steps) | |
| | - USB | – | |
| Individual input settings for inputs 1–4 | STEREO LINK (excluding MIC/EXT IN) | Off (default), On | page 20 |
| | INPUT | | page 20 |
| | - Input 1/2 | MIC (default), EXT | |
| | - Input 3/4 | MIC (default), LINE | |
| | PHANTOM (when 3/4 and MIC only) | Off (default), On | page 22 |
| | AUTO GAIN | OFF (default), ON | page 20 |
| | LOW CUT | OFF (default), 40Hz, 80Hz, 120Hz, 220Hz | page 21 |
| | NOISE GATE | OFF (default), LOW, MID, HIGH | page 21 |
| | LIMITER / COMP | OFF (default), LIMITER, COMPRESSOR | page 21 |
| | EQ | OFF (default), VOICE, GUITAR, LOUD, VOCAL, MANUAL | page 21 |
| PHASE INVERT | OFF (default), ON | page 21 | |

15 - Various settings

Mixer

| Category | Menu item | Settings | |
|----------|-------------------------|------------------------|---------------------------------------|
| MIXER | When MS DE-CODE is OFF | Level | -inf – 0dB (default) (in 0.5dB steps) |
| | | Panning | L20 – C – R20 |
| | When MS DE-CODE is ON | LEVEL | 0 – 50 (default) – 100 |
| | | WIDE | 0 – 50 (default) – 100 |
| | Type of mix file (icon) | STEREO (default), MONO | |

BROWSE

| Category | Menu item | Settings | Reference | |
|-------------------------|------------------|---|-----------|---------|
| BROWSE | New folder | RENAME | page 41 | |
| FOLDER | OPEN | EXECUTE | page 41 | |
| | RENAME | EXECUTE | page 41 | |
| | ALL FILES DELETE | EXECUTE | page 42 | |
| | FOLDER DELETE | EXECUTE | page 42 | |
| FILE | SELECT | The selected file becomes the current project, and the app used for recording appears on the Home Screen. | page 42 | |
| | PLAY | EXECUTE | page 42 | |
| | FILE INFORMATION | This shows file and track information | page 43 | |
| | FILE DELETE | EXECUTE | page 43 | |
| | TRACK DELETE | Track 1, 2, 3 or 4 | page 43 | |
| | CHANGE PROTECT | EXECUTE | page 43 | |
| | RENAME | EXECUTE | page 43 | |
| | MARK | CLEAR ALL MARKS | page 44 | |
| | DIVIDE | DIVIDE | | page 44 |
| | | AUTO DIVIDE - ALL MARK | | |
| AUTO DIVIDE - TIME MARK | | | | |
| NORMALIZE | EXECUTE | page 44 | | |

INPUT SELECT

| Category | Menu item | Settings | Reference |
|--------------|-----------|-------------------------------------|-----------|
| INPUT SELECT | TRACK 1-2 | 1-2 (default), 3-4, USB, MIC/EXT IN | page 20 |
| | TRACK 3-4 | 1-2, 3-4 (default), USB, MIC/EXT IN | |

LAUNCHER

| Category | Menu item | Settings | Reference |
|----------|-----------|----------|-----------|
| ASMR | EXECUTE | | page 26 |
| MANUAL | EXECUTE | | page 27 |
| MUSIC | EXECUTE | | page 29 |
| VOICE | EXECUTE | | page 30 |
| FIELD | EXECUTE | | page 31 |
| PODCAST | EXECUTE | | page 32 |

The following is a list of pop-up messages.

Refer to this list if one of these pop-up messages appears on the Portacapture X6 and you want to check the meaning or determine a proper response.

| Message | Details and response |
|--------------------------------------|---|
| Hold On | Buttons have been disabled by the HOLD switch. |
| No Card | Load a microSD card. |
| Card Error | The microSD card could not be recognized. Change the microSD card. |
| Card Full | The microSD card has no remaining capacity. |
| Format Error | The microSD card might not be formatted properly, or it might be broken. Tap the screen to start formatting. |
| Format Card | Formatting will erase all data on the microSD card. |
| Invalid Card | Something might be wrong with the microSD card. |
| Change Card | Change the microSD card. |
| MBR ERROR | The microSD card might not be formatted properly, or it might be broken. Tap the screen to start formatting. |
| Init CARD | Formatting will erase all data on the microSD card. If formatting is not possible, change the microSD card. |
| Write error | Writing to the microSD card timed out. This has caused audio to be interrupted and noise to occur. |
| Recording will continue | A BOF mark was added at the point when audio was interrupted. |
| Card slow | microSD card writing performance has become worse. |
| Check BOF mark | A BOF mark has been added at the point when audio was interrupted because writing to the microSD card timed out. Check the audio around the BOF mark. Execute the erase format function or change the microSD card. |
| Invalid SysFile | The system file required to operate this unit is invalid. |
| Make Sys File | Tap the screen to create a system file. |
| Non- Supported | See the Reference Manual for file formats that this unit can use. (page 60) |
| File Num Full | Recording is not possible because the total number of folders and files would exceed the limit of 5000. |
| File Not Found | The file was not found or might be damaged. Check the relevant file. |
| Cannot delete because file protected | Remove protection from a file before trying to delete it. |
| Cannot divide because file too short | The file is too short, so it cannot be divided. |
| MP3 files cannot be divided | MP3 files cannot be divided. |
| No marks so cannot divide | Files that do not have marks cannot be divided with this function. |
| Can't divide | Mark division will not work when the interval between marks is two seconds or less. |
| Short interval | |
| Can't divide | |
| No file | There is no audio file. |

| Message | Details and response |
|--|---|
| Cannot divide because file name invalid | Division is not possible because the file name would exceed the limit of 200 characters. Use a computer to change the file name. |
| Can't delete | Folders that contain files cannot be deleted. |
| Not empty | Delete all the files in the folder and try again. |
| No XRI data | No XRI data has been saved in the file. Turn the XRI data recording function ON before starting recording. XRI data cannot be saved when recording MP3 files. |
| Adding marks not possible because file protected | Marks cannot be added because the file is protected from writing. Remove protection from a file to add marks to it. |
| Can't MARK | Marks cannot be added because the file is too short. |
| File length | |
| I/O Too Short | The IN and OUT points are too close together. Set them with at least 1 second between them. |
| Dual format not possible | MP3 dual format recording cannot be used when the sampling frequency is 96 kHz. |
| File error | If any of these errors occurs, turn the unit off and restart it. |
| Error occurred | If the unit cannot be turned off, remove the batteries, and disconnect the AC adapter (TASCAM PS-P520U, sold separately). |
| Playback Error | |
| Writing Failed | If these error messages continue to appear frequently, please contact a TEAC Repair Center. |
| System error XX (XX is a number) | |
| USB FS Mismatch | The sampling frequency settings of this unit and the computer are not the same. Change the setting of one so that they are the same. |
| Already used in another pad | The same pad data cannot be used for two sound pads at the same time. |
| Battery is overheated. Change to USB power supply. | The internal temperature has become higher when using AA batteries. You can continue to use the unit by powering it with a USB connection. |
| Device is overheated. | The internal temperature has become higher. The system will shut down automatically. |
| Turn off the power. | |
| The USB power supply is less than 1500 mA. | Use of a function that cannot be used when power is less than 1500 mA was attempted. Connect an external power supply that can provide at least 1500 mA, or set the unit to operate using battery power and disable energy-saving mode. |
| No track selected | No recording track has been selected. Turn input on for tracks to be recorded on the Input Screen. (page 28) |

17 - Troubleshooting

If you are having trouble with the operation of this unit, please check the following before seeking repair. If these measures do not solve the problem, please contact the store where you bought the unit or TASCAM customer support service.

Power will not turn on

- Confirm that the ϕ /I/HOLD switch is not set to HOLD.
- Confirm that batteries are installed correctly.
- Confirm that the TASCAM PS-P520U AC adapter (sold separately) power plug and the USB connector are securely connected. The unit might not operate properly through a USB hub.

The unit turns off automatically

- Confirm that the automatic power saving function is disabled.
 - The automatic power saving function can be turned on/off using the GENERAL SETTINGS screen > POWER/DISPLAY page > AUTO POWER SAVE item.
 - Since this unit complies with the European Standby Power Regulations (ErP), the automatic power saving function operates regardless of whether the unit is being powered by an AC adapter or batteries. If you do not want to use the automatic power saving function, set it to OFF. (The factory default setting is ON, which turns off the unit when it has not been used for 30 minutes.)

Operation is not possible using the unit controls

- Confirm that the ϕ /I/HOLD switch is not set to HOLD.
- Unit operations are not possible when SD CARD READER appears on the screen.

The microSD card is not recognized.

- Confirm that the microSD card is inserted completely.
- Format it with a computer, and reinsert it.

No sound is output

- Confirm the unit's headphone/speaker output level.
- Check the monitoring system connections and volume level.
- No sound is output from the speaker in the following conditions.
 - The Ω / \square (headphone/speaker) volume is set to "0".
 - The GENERAL SETTINGS screen > I/O SETTINGS page > SPEAKER item set to Off. (see "Using the built-in speaker" on page 19)
 - The unit is recording or in recording standby
 - The LINE OUT or headphones jack is in use.

Recording is not possible

- Confirm that the microSD card has enough open space.
- Recording becomes impossible when the total number of files reaches 5000.

The input sound is extremely quiet or loud

- Check input level settings. (see "Adjusting input gain (GAIN)" on page 22)
- Check the output levels of connected external equipment.

A file cannot be erased

- A protected (read only) file cannot be erased.

This unit's files do not appear on the computer.

- Confirm that the unit is properly connected to the computer through

its USB port. The unit might not operate properly if connected through a USB hub.

- To show the unit's files on a computer, after connecting the unit to the computer using a USB cable, operation on the GENERAL SETTINGS screen is necessary. (→ "Accessing microSD cards from a computer" on page 47)

The wrong language was set accidentally

- Slide the ϕ /I/HOLD switch toward the ϕ /I icon until the unit turns off. Then, while pressing the HOME [■] button, slide the ϕ /I/HOLD switch toward the ϕ /I icon again. The language selection menu will appear, and you will be able to select the language.

Noise is occurring

- If this unit is near a mobile phone, TV, radio, power amplifier or other device with a large transformer, noise could occur with this unit or other devices nearby.

The built-in speaker volume is low

- Turn the Ω / \square (headphone/speaker) volume in the direction that increases the number.
- If input levels were low during recording, it might be difficult to hear even when the speaker is at its maximum volume. If the maximum input level during recording is close to 0 dB, the built-in speaker will output at near maximum volume
- If more volume is needed, connect an external speaker with a built-in amp or an amp with a speaker connected to it.

The date/time is incorrect

- They can be set again using the GENERAL SETTINGS screen > SYSTEM page > DATE/TIME item. (see "Setting the date and time" on page 16)

The Shortcut Menu button is not working

- The Shortcut Menu button cannot be used when the unit is recording, in recording standby, playing back or paused. Press the HOME [■] button to stop the unit.

A file is not recognized

- Recognizing files correctly becomes impossible when the total number of files exceeds 5000.
- Subfolders below the third level cannot be shown.
- This unit cannot show files that are not in the SOUND folder. (page 40)
- Only files in MP3 and WAV formats, including BWF, will be shown.
- Files that are damaged cannot be shown correctly by this unit.

A file cannot be divided

- File division is not possible if it would create a file with a name that is the same as an existing file.
- File division is not possible if the file name would become more than 200 characters long.
- Mark division is not possible if it would create a file that is less than four seconds long.
- Manual file division is not possible if it would create a file that is less than two seconds long.

Batteries run out of power quickly

Try the following.

- Reduce the backlight time ("Power saving (energy conservation) mode" on page 53).

- Turn off all indicators (“Power saving (energy conservation) mode” on page 53).
- Reduce the brightness (“Power saving (energy conservation) mode” on page 53).
- Reduce the contrast (“Power saving (energy conservation) mode” on page 53).
- Turn the recording pause function on (“Recording app overview” on page 24).
- Lower the headphone/speaker volume.
- Disconnect input and output devices that are not in use.

The screen is dim

- Set BACKLIGHT to ALWAYS (“Power saving (energy conservation) mode” on page 53)

NOTE

The screen will always be dim when BACKLIGHT is set to OFF.

18 - Specifications

18-1 Specifications and rated values

Recorder specifications

Recording media

microSD cards (64 MB – 2 GB)
microSDHC cards (4 GB – 32 GB)
microSDXC cards (48 GB – 512 GB)

Recording/playback formats

WAV (BWF): 44.1/48/96kHz, 16/24-bit or 32-bit float
MP3: 44.1/48kHz, 128/192/256/320kbps

Number of channels

Input channels
4 channels maximum
Recording tracks
6 tracks maximum

Analog audio input ratings

Mic inputs (balanced)

Input jacks 3/4 (when INPUT SELECT set to MIC)

Connectors:
XLR-3-31 equivalent(1: GND, 2: HOT, 3: COLD)
(supports phantom power only when MIC input selected)
Input impedance: 2.2 k Ω or higher
Maximum input level: +2 dBu
Minimum input level: -75 dBu

Input jacks 3/4 (when INPUT SELECT set to LINE)

Connectors:
XLR-3-31 equivalent(1: GND, 2: HOT, 3: COLD)
Input impedance: 9 k Ω or higher
Nominal input level: +4 dBu (GAIN setting at minimum)
Maximum input level: +24 dBu
Minimum input level: -53 dBu

Line input (unbalanced): MIC/EXT IN jack (can provide plug-in power)

Connector: 3.5mm (1/8") stereo mini jack
Input impedance: 10 k Ω or higher (when plug-in power is off)
1.8 k Ω or higher (when plug-in power is on)
Nominal input level: -20 dBV (GAIN setting at minimum)
Maximum input level: 0 dBV
Minimum input level: -67 dBV

Analog audio output

Line output (unbalanced): LINE OUT jack

Connector: 3.5mm (1/8") stereo mini jack
Output impedance: 210 Ω
Nominal output level: -14 dBV
Maximum output level: +6 dBV

- 0dBu=0.775Vrms
- 0dBV=1Vrms

Headphone output: headphone jack

Connector: 3.5mm (1/8") stereo mini jack
Maximum output: 45mW + 45mW (THD+N 0.1% or less, into 32 Ω load)

Built-in speaker

0.4 W (mono)

USB

Port: USB Type-C
Transfer mode: USB 2.0 Hi-Speed
Device classes: mass storage, USB audio 2.0 (USB class compliant)

USB audio

Sampling frequencies
44.1, 48, 96 kHz
Quantization bit depth: 24-bit
Number of input channels: 6 (output from unit)
Number of output channels: 2 (input to unit)

Bluetooth device connector

For Bluetooth adapter (AK-BT1) only

Audio performance

Mic amp EIN (equivalent input noise)

-125 dBu or less

Frequency response

Input jacks 3/4 to PCM data
20 Hz – 20 kHz at 48 kHz: +0/-0.3 dB (JEITA)
20 Hz – 40 kHz at 96 kHz: +0/-0.4 dB (JEITA)

Dynamic range

Input jacks 3/4 to PCM data (20kHz SPCL LPF, A-weighting)
112 dB or higher (at 48 kHz)
112 dB or higher (at 96 kHz)

Total harmonic distortion ratio (THD+N)

Input jacks 3/4 (LINE IN) to PCM data, 1kHz sine wave, -5 dBFS input, GAIN at minimum, 20kHz SPCL LPF
0.008% or less
Input jacks 3/4 (MIC IN) to PCM data, 1kHz sine wave, -5 dBFS input, GAIN at minimum, 20kHz SPCL LPF
0.006% or less

Note: JEITA indicates conformance to JEITA CP-2150

Recording times (in hours: minutes)

| File format (recording setting) | | Card capacity | |
|---------------------------------|---------|------------------|-------------------|
| | | 32GB (microSDHC) | 128GB (microSDXC) |
| 320kbps MP3 (stereo) | 44.1kHz | 222:13 | 888:53 |
| 16-bit WAV (stereo) | | 50:23 | 201:33 |
| 24-bit WAV (stereo) | 96kHz | 15:25 | 61:43 |
| 32-bit float WAV (stereo) | 96kHz | 11:34 | 46:16 |

- The recording times shown above are estimates. They might differ depending on the microSD card in use.
- The recording times shown above are not continuous recording times, but rather they are the total possible recording times for the microSD card.
- If recorded in mono, maximum recording times will be about double those above.
- If using dual recording, maximum recording times will be shorter than those above.

Operating system and other requirements

Check the TEAC Global Site (<https://teac-global.com/>) for the latest information about supported operating systems.

CAUTION

Operation with each OS was confirmed with standard system setups that met the following conditions.
Operation is not guaranteed, however, with all systems that meet the following conditions.

Portacapture X6

Windows

Supported operating systems

- Windows 11
- Windows 10 64-Bit

Computer hardware requirements

Windows computer with a USB 2.0 (or higher)

- Operation is not guaranteed using the TASCAM driver with ARM64 CPUs.

Mac

Supported operating systems

- macOS Ventura (13)
- macOS Monterey (12)
- macOS Big Sur (11)

Computer hardware requirements

Mac with a USB 2.0 (or higher)

Portacapture Control

iOS/iPadOS devices

- iOS 16/iPadOS 16
- iOS 15/iPadOS 15
- iOS 14/iPadOS 14

Android devices

- Android 11
- Android 10

- Compatibility has been confirmed, but this does not guarantee operation with all devices.

Other

Power

4 AA batteries (alkaline, NiMH or lithium-ion)
USB bus power from a computer
TASCAM PS-P520U AC adapter (sold separately)

Power consumption

7.5 W (maximum)

Battery operation time (continuous operation)

- Using alkaline batteries (EVOLTA)

| Use conditions | Operation time |
|--|------------------|
| Input through inputs 1-2 (built-in mics) Phantom power not used 44.1kHz stereo WAV (BWF) 24-bit recording | About 13.5 hours |
| Input through inputs 1-2 (built-in mics) and input jacks 3-4 (using phantom power: +48V, 3mA×2 load) 44.1kHz stereo WAV (BWF) 24-bit recording | About 5.5 hours |

- Using NiMH battery (eneloop)

| Use conditions | Operation time |
|--|-----------------|
| Input through inputs 1-2 (built-in mics) Phantom power not used 44.1kHz stereo WAV (BWF) 24-bit recording | About 11 hours |
| Input through inputs 1-2 (built-in mics) and input jacks 3-4 (using phantom power: +48V, 3mA×2 load) 44.1kHz stereo WAV (BWF) 24-bit recording | About 5.5 hours |

- Using lithium-ion batteries (Energizer Ultimate Lithium)

| Use conditions | Operation time |
|--|------------------|
| Input through inputs 1-2 (built-in mics) Phantom power not used 44.1kHz stereo WAV (BWF) 24-bit recording | About 22 hours |
| Input through inputs 1-2 (built-in mics) and input jacks 3-4 (using phantom power: +48V, 3mA×2 load) 44.1kHz stereo WAV (BWF) 24-bit recording | About 11.5 hours |

NOTE

When using phantom power, the operation time might be reduced depending on the mics being used.

Dimensions

75 × 174.3 × 37.2 mm (width × height × depth, excluding protrusions)

Weight

365/265 g (with/without batteries)

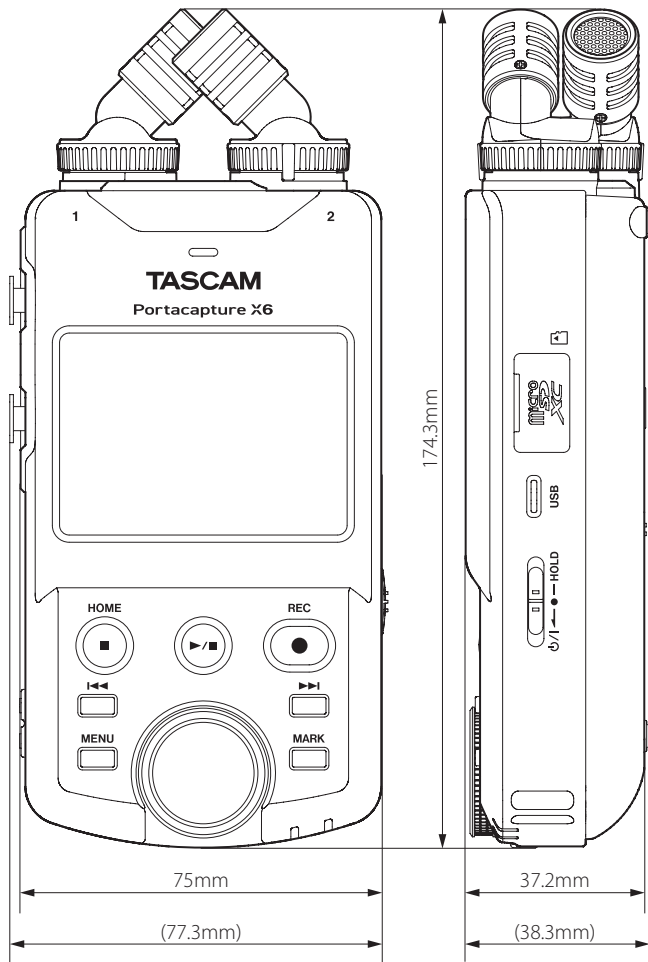
Operating temperature range

0–40°C

- Illustrations in this manual might differ in part from the actual product.
- Specifications and external appearance might be changed without notification to improve the product.

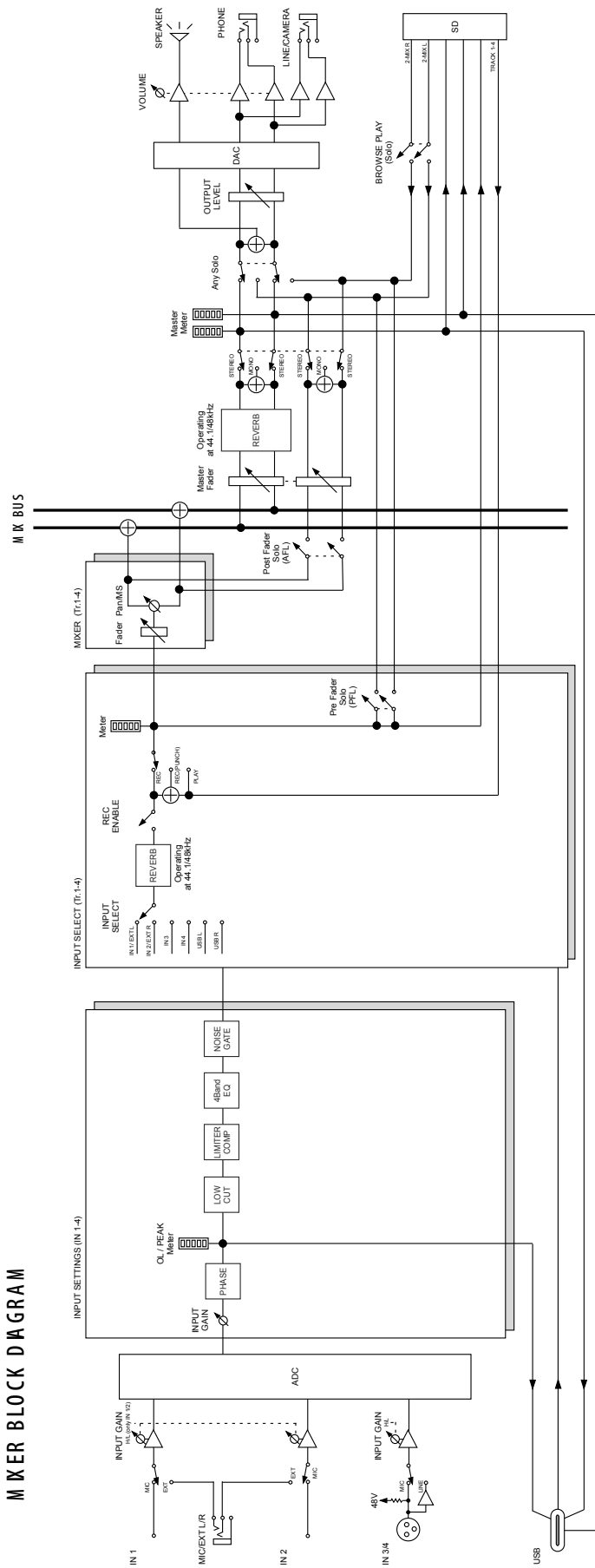
18 - Specifications

18-2 Dimensional drawings



18-3 Block diagram

Portacapture X6
MIXER BLOCK DIAGRAM



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