

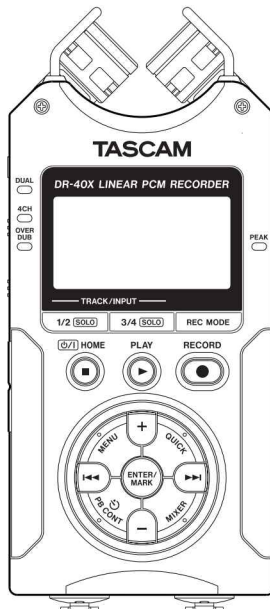
TASCAM

DR-40X

Linear PCM Recorder



0320.MA-2735B



D01345700B

OWNER'S MANUAL

ENGLISH

MODE D'EMPLOI

FRANÇAIS

MANUAL DEL USUARIO

ESPAÑOL

BEDIENUNGSANLEITUNG

DEUTSCH

MANUALE DI ISTRUZIONI

ITALIANO

РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ

RUSSIAN

取扱説明書

日本語

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- SDXC Logo is a trademark of SD-3C, LLC.



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Owner's Manual

IMPORTANT SAFETY PRECAUTIONS

For U.S.A.

INFORMATION TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

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

CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.



This product complies with the European Directives request and the other Commission Regulations.

For Canada

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMERIQUE DE LA CLASSE B EST CONFORME A LA NORME NMB-003 DU CANADA.

Declaration of Conformity

Model Number : DR-40X

Trade Name : TASCAM

Responsible party : TEAC AMERICA, INC.

Address : 10410 Pioneer Blvd. Suite #1, Santa Fe Springs, California 90670, U.S.A.

Telephone number : 1-323-726-0303

This device complies with Part.15 of FCC Rules.

Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation.



IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If

the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
- The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
- Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.
- If you are experiencing problems with this product, contact TEAC for a service referral. Do not use the product until it has been repaired.

WARNING



To prevent possible hearing damage, do not listen at high volume levels for long periods.

CAUTION

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
- CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.

CAUTIONS ABOUT BATTERIES

This product uses batteries. Misuse of batteries could cause a leak, rupture or other trouble. Always abide by the following precautions when using batteries.

- Never recharge non-rechargeable batteries. The batteries could rupture or leak, causing fire or injury.
- When installing batteries, pay attention to the polarity indications (plus/minus (+) / (-) orientation), and install them correctly in the battery compartment as indicated. Putting them in backward could make the batteries rupture or leak, causing fire, injury or stains around them.
- When you store or dispose batteries, isolate their terminals with insulation tape or something like that to prevent them from contacting other batteries or metallic objects.
- When throwing used batteries away, follow the disposal instructions indicated on the batteries and the local disposal laws.
- Do not use batteries other than those specified. Do not mix and use new and old batteries or different types of batteries together. The batteries could rupture or leak, causing fire, injury or stains around them.

- Do not carry or store batteries together with small metal objects. The batteries could short, causing leak, rupture or other trouble.
- Do not heat or disassemble batteries. Do not put them in fire or water. Batteries could rupture or leak, causing fire, injury or stains around them.
- If the battery fluid leaks, wipe away any fluid on the battery case before inserting new batteries. If the battery fluid gets in an eye, it could cause loss of eyesight. If fluid does enter an eye, wash it out thoroughly with clean water without rubbing the eye and then consult a doctor immediately. If the fluid gets on a person's body or clothing, it could cause skin injuries or burns. If this should happen, wash it off with clean water and then consult a doctor immediately.
- The unit power should be off when you install and replace batteries.
- Remove the batteries if you do not plan to use the unit for a long time. Batteries could rupture or leak, causing fire, injury or stains around them. If the battery fluid leaks, wipe away any fluid on the battery compartment before inserting new batteries.
- Do not disassemble a battery. The acid inside the battery could harm skin or clothing.

For European Customers

Disposal of electrical and electronic equipment

- (a) All electrical and electronic equipment should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- (b) By disposing of the electrical and electronic equipment correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.
- (c) Improper disposal of waste equipment can have serious effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.

- (d) The crossed out wheeled dust bin symbol indicates that electrical and electronic equipment must be collected and disposed of separately from household waste.
- (e) The return and collection systems are available to the end users. For more detailed information about disposal of old electrical and electronic equipment, please contact your city office, waste disposal service or the shop where you purchased the equipment.



Disposal of batteries and/or accumulators

- (a) Waste batteries and/or accumulators should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- (b) By disposing of waste batteries and/or accumulators correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.
- (c) Improper disposal of waste batteries and/or accumulators can have serious effects on the environment and human health as a result of the presence of hazardous substances in batteries and/or accumulators.

- (d) The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.



If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will be indicated beneath the crossed out wheeled dust bin symbol.

- (e) The return and collection systems are available to the end users. For more detailed information about disposal of waste batteries and/or accumulators, please contact your city office, waste disposal service or the shop where you purchased them.

Pb, Hg, Cd

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Introduction

Thank you very much for purchasing the TASCAM DR-40X Linear PCM Recorder.

Before using this unit, read this owner's manual carefully so that you will be able to use it correctly and enjoy working with it for many years. After you have finished reading this manual, please keep it in a safe place for future reference.

Note about the Reference Manual

This Owner's Manual explains the main functions of this unit. Please see the Reference Manual for information about all the unit's functions.

You can also download this Owner's Manual and the Reference Manual from the TEAC Global Site (<http://teac-global.com/>).

Items included with this product

This product includes the following items.

Take care when opening the package to avoid damaging the items.

Take care when opening the package to avoid damaging the items. Keep the packing materials for transportation in the future.

Please contact the store where you purchased this unit if any of these items are missing or have been damaged during transportation.

- Main unit..... × 1
- AA alkaline batteries..... × 3
- Tilt foot..... × 1
- Owner's Manual (this document) including warranty × 1

Cleaning the unit

To clean the unit, wipe it gently with a soft dry cloth. Do not wipe with chemical cleaning cloths, benzene, thinner, alcohol or other chemical agents. Doing so could damage the surface or cause discoloration.

Precautions for placement and use

- The environmental temperature operating range of this unit is 0 - 40°C (32 - 104°F).
- Do not install this unit in the following types of locations. Doing so could degrade the sound quality and/or cause malfunctions.

Places with significant vibrations

Near windows or other places exposed to direct sunlight

Near heaters or other extremely hot places

Extremely cold places

Places with bad ventilation or high humidity

Very dusty locations

Places exposed directly to rain or other water

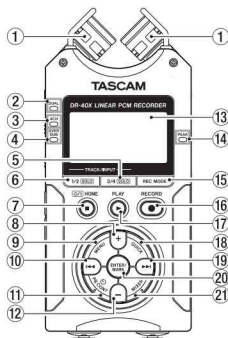
- Do not place this unit on top of a power amplifier or other device that generates heat.
- If this unit is placed near a power amplifier or other device with a large transformer, it could cause a hum. If this occurs, increase the distance between this unit and the other device.
- This unit could cause color irregularities on a TV screen or noise from a radio if used nearby. If this occurs, use this unit farther away.
- This unit might produce noise if a mobile phone or other wireless device is used nearby to make calls or send or receive signals. If this occurs, increase the distance between this unit and those devices or turn them off.

Beware of condensation

Condensation could occur if the unit is moved from a cold place to a warm place, it is used immediately after a cold room has been heated or it is otherwise exposed to a sudden temperature change. To prevent this, or if this occurs, let the unit sit for one or two hours at the new room temperature before using it.

Names and Functions of Parts

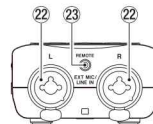
Top panel



- 1 **Built-in stereo microphone**
- 2 **DUAL indicator**
- 3 **4CH indicator**
- 4 **OVER DUB indicator**
- 5 **3/4 [SOLO] button**
Select and solo channels 3/4
- 6 **1/2 [SOLO] button**
Select and solo channels 1/2
- 7 **⏻/1 (HOME) [■] button**
Press to stop, turn the power on/off (⏻/1) and open the Home Screen HOME)

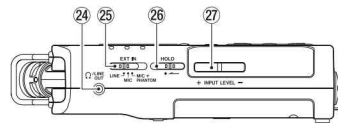
- 8 **+ button**
Plus/up
- 9 **MENU button**
Open Menu Screen
- 10 **⏪ button**
Search backward/left/cancel
- 11 **PB CONT button**
Open Playback Control screen
- 12 **- button**
Minus/down
- 13 **Display**
- 14 **PEAK indicator**
Lights when recording level is too high
- 15 **REC MODE button**
Open the recording mode menu screen
- 16 **RECORD [●] button/REC indicator**
Shows recording status
- 17 **PLAY [▶] button**
PLAY
- 18 **QUICK button**
Open the quick menu
- 19 **▶▶ button**
Search forward/right/confirm
- 20 **ENTER/MARK button**
Set/clear marks
- 21 **MIXER button**
Open the mixer screen

Front panel



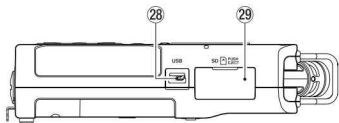
- 22 **EXT MIC/LINE IN L/R jacks (XLR/TRS)**
Mic/external input jack
- 23 **REMOTE jack (2.5 mm dia. TRS jack)**

Left side



- 24 **⌚/LINE OUT jack**
Headphone/line output jack
- 25 **EXT IN switch**
- 26 **HOLD switch**
Set hold function
- 27 **INPUT LEVEL (+/-) buttons**

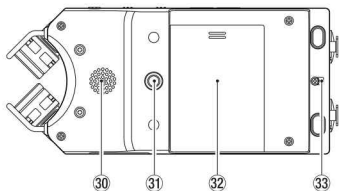
Right side panel



28 USB port

29 microSD card slot

Bottom Panel



30 Mono speaker

31 Tripod or tilt foot mounting threads
(1/4-inch)

32 Battery compartment cover

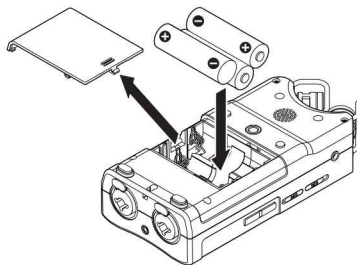
33 Strap attachment

34 Battery compartment

Making preparations

Installing batteries

While pressing the battery compartment cover on the back of the unit, slide it open. Then, install batteries.

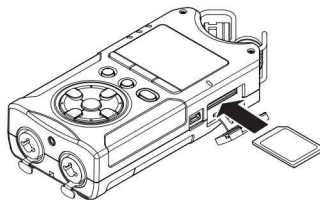


TIP

The TASCAM PS-P520E AC adapter can also be used with this unit.

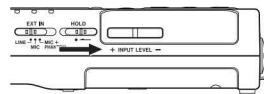
Inserting a card

Open the microSD slot cover on the right side panel, and insert a microSD card.



Turning the unit on

1. Slide the **HOLD** switch in the direction of the arrow to unlock it.



TIP

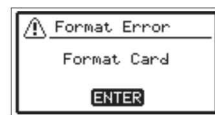
By sliding it toward **HOLD**, button operations can be disabled, preventing misoperation during recording.

2. Press and hold the **⏪/I (HOME) [■]** button for several seconds.

The first time the power is turned on after purchase, setting screens like the following will open.

Formatting cards

Press the **ENTER/MARK** button to to execute.



CAUTION

Execution of formatting erases all data currently on the card.

This message will not appear for cards that have already been formatted.

Setting the language

Select the language used for menus and messages.



Use the + and – buttons to select the language, and press the **ENTER/MARK** button to confirm.

DATE/TIME

Set the date and time.



Use the ◀ and ▶ buttons to move the cursor, and use the + and – buttons to change the date and time. Press the **ENTER/MARK** button.

TIP

The language and date/time settings can be changed later from the menu.

Using the built-in microphone

This unit's built-in microphones can be adjusted, allowing the angles of the microphones to be changed. You can choose clear stereo sound or wide stereo sound according to the recording source, situation, etc. by opening or closing the microphone pair.

Setting the mics to record a wide stereo sound (A-B position)

Spread the stereo microphone to the left and right. (A-B position)

Set this way, the two microphones are spread widely left and right, and recording is possible with a strong stereo field that is good for music, for example.

If you open or close the microphone pair while using the built-in stereo microphone and the left-right channels does not suit the angle of the microphone, a pop-up message appears to ask whether you want to swap the left-right channels of the microphone.



CAUTION

Set the left-right channels of the built-in microphone to L-R.

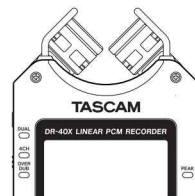
When you are using the built-in microphone and the setting is not L-R, **R-L** appears on the Home screen.

Setting the mics to record a clear stereo sound (X-Y position)

Close the stereo microphone. (X-Y position)

Set this way, the microphone pair is close, and recording is possible with a clear stereo field with less phase difference.

If you open or close the microphone pair while using the built-in stereo microphone and the left-right channels does not suit the angle of the microphone, a pop-up message appears to ask whether you want to swap the left-right channels of the microphone.



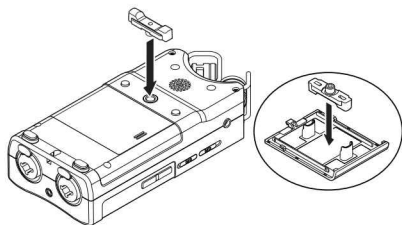
CAUTION

Set the left-right channels of the built-in microphone to R-L.

When you are using the built-in microphone and the setting is not R-L, **L-R** appears on the Home screen.

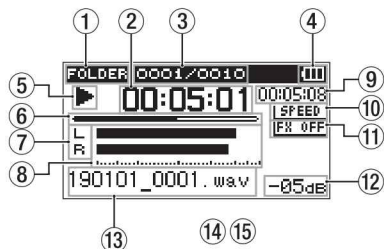
Attaching the tilt foot

When recording with the built-in mic, you can attach the included tilt foot to the tripod mounting threads to prevent the mic from being too low when placing the unit with the bottom side (battery compartment cover side) down. When not using the tilt foot, you can put it between the two protrusions on the inside of the battery compartment cover for storage and transportation.



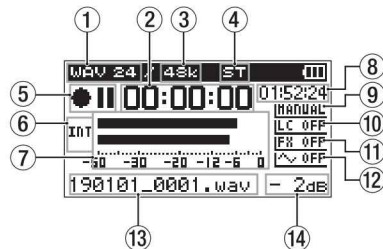
Screen overview

When stopped or playing back



- 1 Playback area
- 2 Elapsed time
- 3 Current playback file number/total number of files
- 4 Remaining battery charge/power supply status
- 5 Playback status
- 6 Playback position display
- 7 Track status
- 8 Playback level meters
- 9 Remaining time
- 10 Playback speed status
- 11 Effect status
- 12 Peak value (decibels)
- 13 Playback file name

When recording or in recording standby



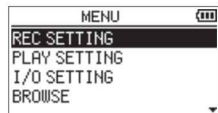
- 1 Recording format
- 2 Elapsed recording time
- 3 Recording sampling frequency
- 4 Number of recording channels
- 5 Recording status
- 6 Input source
- 7 Recording level meters
- 8 Remaining recording time
- 9 Level mode setting status
- 10 Low cut filter status
- 11 Effect status
- 12 Tone output setting status
- 13 Recording file name
- 14 Peak value (decibels)

Using the menu

Use the menu to change various settings, including recording, playback and system settings, and to execute various functions.

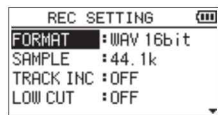
1. Press the **MENU** button.

The **MENU** screen appears.



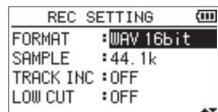
2. Use the + and – buttons to select the menu item, and press **ENTER/MARK**.

The setting screen will open.



3. Use the + and – buttons to select the setting item, and press ▶.

Settings can now be changed and functions executed.



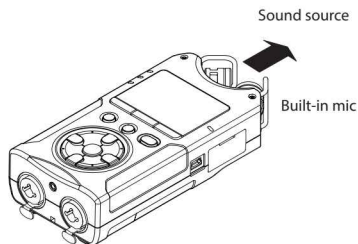
4. Use the + and – buttons to change the setting.

NOTE

- Press the **MENU** button to return to the previous screen.
- To return to the Home Screen, press the **HOME** [■] button.

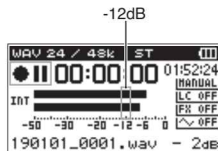
Recording

1. Point the built-in mic towards the sound to be recorded.



2. Press the **RECORD** [●] button to enter recording standby.

Recording standby will start, ●|| will appear on the display, and the **REC** indicator will blink.



3. Adjust the recording level.

Adjust the built-in mic orientation and distance from the sound source as well as the input level so that the recording level meters stay near –12 dB at the peak input level.

Use the ◀ and ▶ buttons to adjust the input level.

4. Press the **RECORD** [●] button to start recording.

Recording will start, **REC** will appear on the display, and the **REC** indicator will light.



5. Press the **HOME** [■] button to stop recording. Recording stops, and ■ appears on the display.

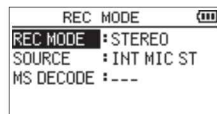
Setting the recording mode

This recorder has five recording modes.

Set the recording mode on the **REC MODE** screen.

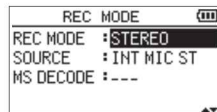
The settings available differ according to the recording mode.

1. When stopped, press the **REC MODE** button. This opens the **REC MODE** menu.



2. Use the + and – buttons to select **REC MODE**, and press the **ENTER/MARK** button.

This enables changing the **REC MODE** setting.



MONO mode

This is a mode for mono recording.

STEREO mode (default)

This is a mode for stereo recording of two independent left and right channels.

DUAL mode

This mode uses one input source to create two files with different input level settings (Level Mode setting screen). Either two mono or two stereo recording files are created.

4CH mode

This mode uses both the built-in mics and the external inputs to record two pairs of inputs as two files. Two stereo recording files are created.

OVERDUB mode

This recording mode add new sounds to the playback file.

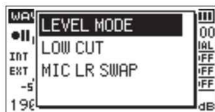
The MIX setting mixes the playback sound and input sound to create a new file. The SEPARATE setting creates a new recording file with only the input sound.

When in OVERDUB mode, select one of these two options using the DUB MODE setting.

Using the low-cut filter

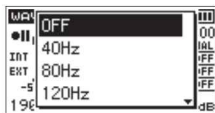
Noise from air conditioning and other sources can be reduced when recording.

1. When in recording standby, press the **QUICK** button.
This opens the Quick menu.



2. Use the + and – buttons to select the **LOW CUT**, and press **ENTER/MARK**.

The setting screen for the low-cut filter will open.



Options: OFF, 40Hz, 80Hz, 120Hz, 220Hz

3. Use the + and – buttons to select the setting, and press **ENTER/MARK**.

This changes the setting and returns to the QUICK menu screen.

4. Press the **⏪/I (HOME) [■]** button

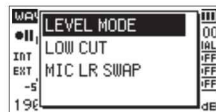
The Home Screen will reopen.



Setting the limiter

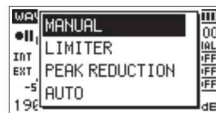
This can help prevent sound from becoming distorted when loud noises are input suddenly during recording.

1. When in recording standby, press the **QUICK** button.
This opens the Quick menu.



2. Use the + and – buttons to select the **LEVEL MODE**, and press **ENTER/MARK**.

This opens the Level Mode setting screen.



Options: MANUAL (default), LIMITER, PEAK REDUCTION, AUTO

3. Use the + and – buttons to select the setting, and press **ENTER/MARK**.

This changes the setting and returns to the QUICK menu screen.

4. Press the **⏪/I (HOME) [■]** button

The Home Screen will reopen.

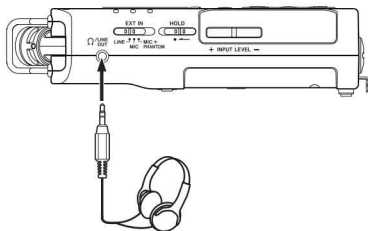


Playing recordings

1. Select a file, and press the **PLAY** [▶] button to start playback.
Playback starts, and ▶ appears on the display.
2. Adjust the volume.
Use the + and – buttons to change the output volume.
3. Press the **⏏** (**HOME**) [■] button to stop playback.
Playback stops, and ▶ || appears on the display.

Listening with headphones

Connect headphones to the **LINE OUT** jack on this unit.

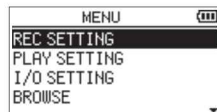


Operations during playback

Pause playback	Press the ■ button
Search forward	Press and hold the ►► button
Search backward	Press and hold the ◀◀ button
Skip to start of playing file	Press the ◀◀ button once briefly
Skip to start of file before playing file	Press the ◀◀ button twice briefly
Skip to start of file after playing file	Press the ►► button once briefly
Go back the set amount of time (options: OFF, 1 sec, 3 sec, 5 sec, 10 sec, 30 sec, 1 min, 5 min, 10 min)	Press the ► button during playback
Add a mark	Press the MARK button during playback

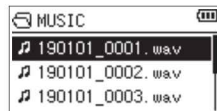
Selecting files

1. Press the **MENU** button.
The **MENU** screen appears.



2. Use the + and – buttons to select **BROWSE**, and press **ENTER/MARK**.

Browse screen appears.



3. Use the + and – buttons to select a file, and press ►►.
The Home Screen will reopen.

TIP

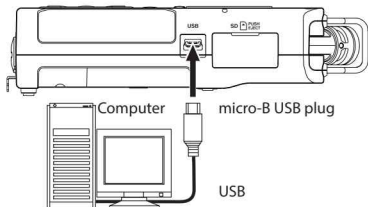
Press the **ENTER/MARK** button to start playback and return to the Home Screen.

Using as an audio interface

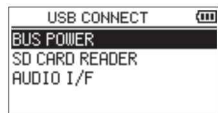
By connecting this unit to a computer (Windows/Mac) or iOS device, you can use it as an audio interface.

Preparation

1. Use a USB cable to connect the unit to a computer, and turn the unit on.



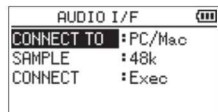
The USB CONNECT screen will open.



NOTE

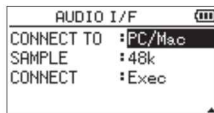
- When being used as an audio interface, the DR-40X itself cannot record or play back files.
 - An Apple Lightning-USB camera adapter is necessary to connect the unit to an iOS device
2. Use the + and - buttons to select AUDIO I/F, and press ENTER/MARK.

The AUDIO I/F screen will open.



Connection

1. Select the type of connected device.

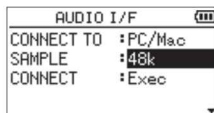


Options: PC/Mac (default), iOS

NOTE

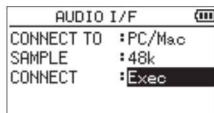
When PC/Mac is selected, the unit will operate on bus power from the computer.

2. Set the sampling rate.



Options: 44.1k, 48k (default)

3. Select Exec at the CONNECT item.

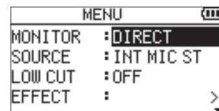


When the unit connects with the external device, the USB AUDIO I/F screen will open.



Monitoring

1. Press the MENU button.
The MENU screen appears.
2. Selecting the monitored signal



Options

PC/Mac (default): Monitor the playback sound from the PC or Mac.

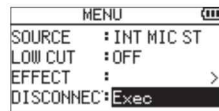
DIRECT: Monitor the input sound without latency.

NOTE

- The meters can be used to check the playback sound of the external device.
- Sound will not be output from the speaker.
- Use headphones to hear the sound.

Disconnecting

1. Press the MENU button.
The MENU screen appears.
2. Select Exec at the DISCONNECT item.



The recorder disconnects from the external device, and the Home Screen opens.

Troubleshooting

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

Power will not turn ON.

- Confirm that batteries are installed correctly.
- Confirm that the **HOLD** switch is not set.

The unit turns off automatically.

- Check the automatic power saving function setting. Set it to "Off" to prevent the power from turning off automatically. See "Setting the automatic power saving function" in "12 – Settings and Information" of the Reference Manual.

The microSD card is not recognized.

- Confirm that the microSD card is inserted completely.

No sound is output or sound is not output from the speaker.

- Confirm that the output volume is not lowered too much.
- Confirm that the speaker setting is on. Even if the speaker setting is on, sound will not be output from the speaker when headphones are connected or when the unit is recording or in recording standby.

Recording is not possible.

- Confirm that the **REC** indicator is lit. If the **REC** indicator is blinking, the unit is in recording standby.
- Check the remaining available recording time shown on the Recording Screen.

The recorded sound is quiet or distorted.

- Check the input level setting.

The unit is not recognized by a computer connected using a USB cable.

- Confirm that the connected computer uses a compatible operating system.
- The USB function used must be selected from the menu to enable a computer to recognize this unit.
- Confirm that the USB cable is not designed only for charging.
- Confirm that the connection is not being made through a USB hub.

Sound skips or noise occurs when in USB audio interface mode.

For Windows

- Performance options
Select "Adjust for best performance".
- Power options
Select "High performance".

The wrong language was set accidentally.

- After pressing the $\odot/1$ (**HOME**) [■] button to turn the unit off, press the $\odot/1$ (**HOME**) [■] button while pressing and holding the **MENU** button.
The language selection menu will appear, and you will be able to select the language.

Specifications

Ratings

Recording media

- SD card (64 MB - 2 GB)
- SDHC card (4 GB - 32 GB)
- SDXC card (48 GB - 128GB)

Recording/playback formats

- BWF: 44.1/48/96 kHz, 16/24 bit
- WAV: 44.1/48/96 kHz, 16/24 bit
- MP3: 44.1/48 kHz, 32/64/96/128/192/256/320 kbps

Number of channels

- 4 channels (stereo × 2)

Inputs and outputs

EXT MIC/LINE IN jacks (XLR connectors can provide phantom power)

- Connector
 - XLR-3-31 (1: GND, 2: HOT, 3: COLD) (support phantom power)
 - 6.3mm (1/4") standard TRS jacks (Tip: HOT, Ring: COLD, Sleeve: GND)

/LINE OUT jack

- Connector: 1/8" (3.5mm) stereo mini jack

Built-in speaker

- 0.3W (mono)

Control input/output ratings

USB port

- Connector type: Micro-B
- Format: USB 2.0 HIGH SPEED mass storage class

REMOTE jack

- Connector: 2.5mm TRS jack

Audio performance

Frequency response

- 20 Hz - 20 kHz +0/-1 dB (EXT IN to LINE OUT, 44.1 kHz sampling frequency, JEITA*)
- 20 Hz - 22 kHz +0/-1 dB (EXT IN to LINE OUT, 48 kHz sampling frequency, JEITA*)
- 20 Hz - 40 kHz +0/-1 dB (EXT IN to LINE OUT, 96 kHz sampling frequency, JEITA*)

Total harmonic distortion

- 0.01% or less (EXT IN to LINE OUT, 44.1/48/96 kHz sampling frequency, JEITA*)

S/N ratio

- 94 dB or higher (EXT IN to LINE OUT, 44.1/48/96 kHz sampling frequency, JEITA*)

Note) JEITA: Conforming to JEITA CP-2150

Recording times

File format (recording setting)		Capacity
		4GB
WAV 16-bit (STEREO)	44.1 kHz	6:44:00
WAV 24-bit (STEREO)	96 kHz	2:04:00
MP3 (STEREO/MONO) 320 kbps	44.1 kHz	29:48:00
	48 kHz	

- The recording times shown above are estimates. They might differ depending on the SD/SDHC/SDXC card in use.
- The recording times shown above are not continuous recording times, but rather they are the total possible recording times for the SD/SDHC/SDXC card.

Other specifications

Power

- 3 AA batteries (alkaline or NiMH)
- USB bus power from a computer
- AC adapter (TASCAM PS-P520E, sold separately)

Power consumption

1.7 W (maximum)

Current consumption

0.34A (maximum)

Dimensions (W × H × D)

- 70 × 155 × 35mm (2.75" × 6.1" × 1.37")
(when the microphone pair is close)
- 90 × 155 × 35mm (3.54" × 6.1" × 1.37")
(when the microphone pair is open)

Weight

- 213 g (7.51 oz) (not including batteries)
- 282 g (9.95 oz) (including batteries)

Operating temperature range

0°C - 40°C (32°F - 104°F)

Battery operation time (continuous operation)

• Using alkaline batteries (EVOLTA)

	Format	Continuous operation time	Note
Recording	2-channel WAV, 44.1 kHz, 16-bit	About 18 hours	With built-in stereo mic input
		About 5.5 hours	When using phantom power (+48V, 3mA×2 load)
Playback	2-channel WAV, 44.1 kHz, 16-bit	About 19.5 hours	Headphones

Recording: JEITA recording time

Playback: JEITA music playback time

• Using NiMH battery (eneloop)

	Format	Continuous operation time	Note
Recording	2-channel WAV, 44.1 kHz, 16-bit	About 16 hours	With built-in stereo mic input
		About 5.5 hours	When using phantom power (+48V, 3mA×2 load)
Playback	2-channel WAV, 44.1 kHz, 16-bit	About 15.5 hours	Headphones

Recording: JEITA recording time

Playback: JEITA music playback time

- 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.
- Detailed specifications are provided in the Reference Manual.