TEAC

D013283421A

UD-701N

ENGLISH

FRANÇAIS

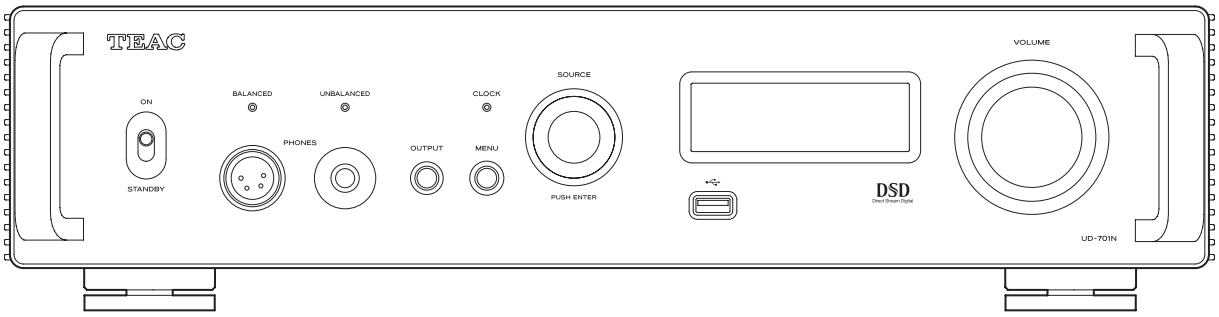
ESPAÑOL

D/A Converter

OWNER'S MANUAL

MODE D'EMPLOI

MANUAL DEL USUARIO



DSD Direct Stream Digital

MQA

Bluetooth®

LDAC

LHDC

Qualcomm® aptX™ HD

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

- DO NOT REMOVE THE EXTERNAL CASES OR CABINETS TO EXPOSE THE ELECTRONICS. NO USER SERVICEABLE PARTS ARE INSIDE.
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT, CONTACT THE STORE WHERE YOU PURCHASED THE UNIT FOR A SERVICE REFERRAL. DO NOT USE THE PRODUCT UNTIL IT HAS BEEN REPAIRED.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) 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.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) 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.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) 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.

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 reach 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.

WARNING

Products with Class I construction are equipped with a power supply cord that has a grounding plug. The cord of such a product must be plugged into an AC outlet that has a protective grounding connection.

IN USA/CANADA, USE ONLY ON 120V SUPPLY.

⚠ Precautions concerning batteries

Misuse of batteries could cause them to rupture or leak leading to fire, injury or the staining of nearby things. Please read and observe the following precautions carefully.

- Be sure to insert the batteries with correct positive (⊕) and negative (⊖) orientations.
- Use batteries of the same type. Never use different types of batteries together.
- If the remote control is not used for a long time (more than a month), remove the batteries to prevent them from leaking.
- If the batteries leak, wipe away the leakage inside the battery compartment and replace the batteries with new ones.
- Do not use batteries of types other than those specified. Do not mix new batteries with old ones or use different types of batteries together.
- Do not heat or disassemble batteries. Never throw batteries into fire or water.
- Do not carry or store batteries with other metallic objects. The batteries could short circuit, leak or explode.
- Never recharge a battery unless it is confirmed to be a rechargeable type.
- Do not expose batteries to extremely low air pressure as it could result in an explosion or leakage of flammable liquids or gases.

Model for USA

Supplier's Declaration of Conformity

Model number: UD-701N
Trade name: TEAC
Responsible party: Pioneer & Onkyo U.S.A. Corporation
Address: 22828 Lockness Avenue, Torrance, CA 90501 U.S.A.
Telephone number: 1-201-785-2600
This device complies with Part.15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information

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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the equipment and/or 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 not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Model for Canada

Industry Canada's Compliance Statement:
This Class B digital apparatus complies with Canadian ICES-003.

EN

For European Customers

Disposal of electrical and electronic equipment and batteries and/or accumulators

a) All electrical/electronic equipment and waste batteries/accumulators should be disposed of separately from the municipal waste stream via collection facilities designated by the government or local authorities.

b) By disposing of electrical/electronic equipment and waste batteries/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 electrical/electronic equipment and batteries/accumulators can have serious effects on the environment and human health because of the presence of hazardous substances in the equipment.

d) The Waste Electrical and Electronic Equipment (WEEE) symbols, which show wheeled bins that have been crossed out, indicate that electrical/electronic equipment and batteries/accumulators must be collected and disposed of separately from household waste.
If a battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) as defined in the Battery Directive (2006/66/EC, 2013/56/EU), then the chemical symbols for those elements will be indicated beneath the WEEE symbol.

Pb, Hg, Cd

e) Return and collection systems are available to end users. For more detailed information about the disposal of old electrical/electronic equipment and waste batteries/accumulators, please contact your city office, waste disposal service or the shop where you purchased the equipment.

Compliance of radio transmitter and interference

This product has the function of broadband transmitter using 2.4GHz Band.

Use frequency range: 2402 MHz – 2480 MHz
Maximum output power: Bluetooth® Class 2 (less than 2.5 mW)

Please use only in the country where you purchased the product. Depending on the country, restrictions on the use of Bluetooth wireless technology might exist.

Model for USA

Labeling of authorization
FCC ID: XEG-UD701N

Model for Canada

Compliance of radio transmitter
This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

1) This device may not cause interference; and
2) This device must accept any interference, including interference that may cause undesired operation of the device.

Labeling of authorization
IC: 1559C-UD701N

Model for EEA (European Economic Area)

CE

Hereby, TEAC Corporation declares that the radio equipment type is in compliance with Directive 2014/53/EU., and the other Directives, and Commission Regulations.

The full text of the EU declaration of conformity is available at the following internet address. Please contact us by e-mail.
https://www.teac-audio.eu/en/

TEAC Corporation
1-47 Ochiai, Tama-shi, Tokyo, 206-8530, Japan

Radiation Exposure requirements

This equipment meets the regulation, which is recognized internationally, for the case of human exposure to radio waves generated by the transmitter.

Statement of compliance

Model for USA/Canada

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

Model for EEA (European Economic Area)

This equipment complies with EN.62479; Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields; the harmonised standard of DIRECTIVE 2014/53/EU.

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Contents

Thank you for choosing TEAC.
Read this manual carefully to get the best performance from this unit.
After reading it, keep it in a safe place for future reference.

EN

ATTENTION

- For information about this unit's network functions, see the TEAC HR Streamer User's Manual.
- The Owner's Manual and TEAC HR Streamer User's Manual can be downloaded from the TEAC International Site (https://teac.jp/int/).
- To use network functions and USB flash drive playback, you must also use a tablet or smartphone that has the TEAC HR Streamer app (free) installed and is connected to the same network as the unit.

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Included accessories

Check to be sure the box contains all the included items shown below.
Please contact the store where you purchased this unit if any of these items are missing or have been damaged during transportation.

Power cord × 1

Remote control (RC-1330) × 1

Batteries for remote control (AAA) × 2

Owner's manual (this document, including warranty) × 1

- For information about the warranty, users living in the USA and Canada should see pages 32–33 and the back cover (warranty document). Users living in Europe and other regions should see page 33.
- The TEAC HR Streamer User's Manual can be downloaded from the TEAC International Site (https://teac.jp/int/).

Maintenance

Wipe dirt from the top cover and other panel surfaces using a soft cloth that has been slightly dampened with a diluted neutral cleanser.
Do not wipe with chemical cleaning cloths, thinner or other chemical agents. Doing so could damage the surface.

⚠ **For your safety, disconnect the power cord from the outlet before cleaning.**

Before use

⚠ Placement precautions

- Do not install this unit in a location that could become hot. This includes places that are exposed to direct sunlight or near a radiator, heater, stove or other heating equipment. Moreover, do not place it on top of an amplifier or other equipment that generates heat. Doing so could cause discoloration, deformation or malfunction.
  Also avoid locations that are subject to vibrations or exposed to excessive dust, cold or moisture.
- When installing this unit, leave a little space (at least 3 cm or 1″) between it and walls and other devices in order to allow good heat dissipation.
  If you put it in a rack, for example, leave at least 5 cm (2″) open above and 10 cm (4″) open behind it. Failure to provide these gaps could cause heat to build up inside and result in fire.
- Do not move the unit during use.
- The voltage supplied to the unit should match the voltage printed on the back of the unit. If you are in any doubt regarding this matter, consult an electrician.
- Do not open the body of the unit as this might result in damage to the circuitry or cause electric shock. If a foreign object should get into the unit, contact your dealer.
- When removing the power plug from the wall outlet, always pull directly on the plug; never yank on the cord.

Using the TEAC International Site

You can download updates for this unit from the TEAC International Site:

https://teac.jp/int/

Click Language at the top right of the page and select the desired country or region to access a page in the corresponding language.

Downloading the remote app

To use the network functions and USB flash drive playback functions of this unit, you must also use a smartphone or tablet that has the TEAC HR Streamer app (free) installed and is connected to the same network as the unit.

By installing the app on a tablet or smartphone, you can use it over a wireless network to operate the unit.

- You can download and use the app for free.

Finding the tablet/smartphone app

Search for "TEAC HR Streamer" in the App Store or Google Play Store.

Playing audio files on a USB flash drive connected to a USB flash drive port

1) Put audio files on the USB flash drive and connect it to a USB flash drive port.
2) Follow the procedures in "Getting started" of the TEAC HR Streamer User's Manual to open the Setup menu.
3) In the Music Player section, select TEAC UD-701N.
4) Select Music Library, and then select TEAC UD-701N USB Music Server.
   - Refreshing the music library could take several minutes if it has many audio files.

This completes the preparation for playing audio files on a USB flash drive connected to a USB flash drive port.
Refer to the TEAC HR Streamer User's Manual to prepare playlists and play audio files.

NOTE

Network module firmware is updated through TEAC HR Streamer. We recommend that you regularly select this unit in TEAC HR Streamer, and update it with the latest firmware.
A pop-up window recommending a firmware update will appear if one is available.

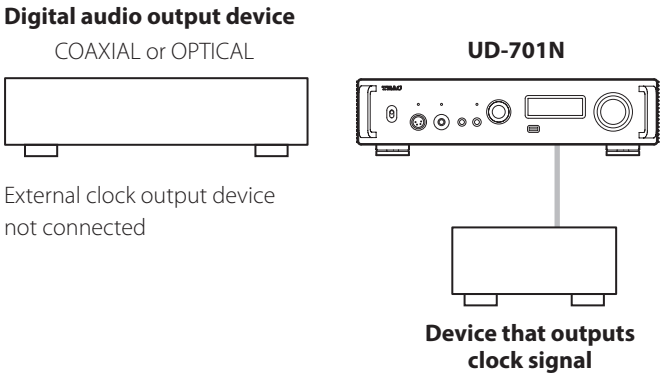
Connections (back)

Connecting external clock output devices

In addition to when the input source is USB or NET (including USB flash drives), clock sync is possible with COAXIAL and OPTICAL sources.
When the input source is COAXIAL or OPTICAL, however, clock sync must be set (page 23) according to how the clock is connected.

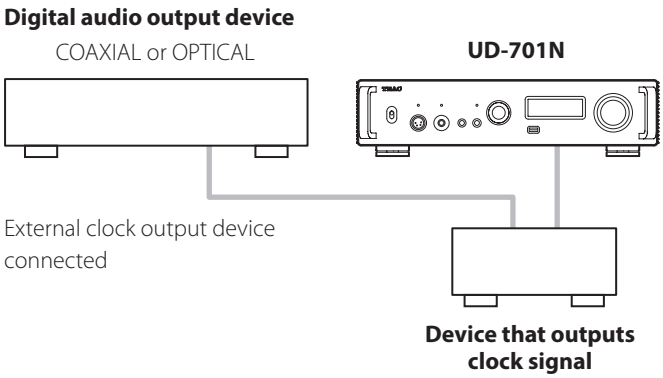
When connecting an external clock output device only to this unit

Set CLOCK SYNC to ON (DIN ASYNC).



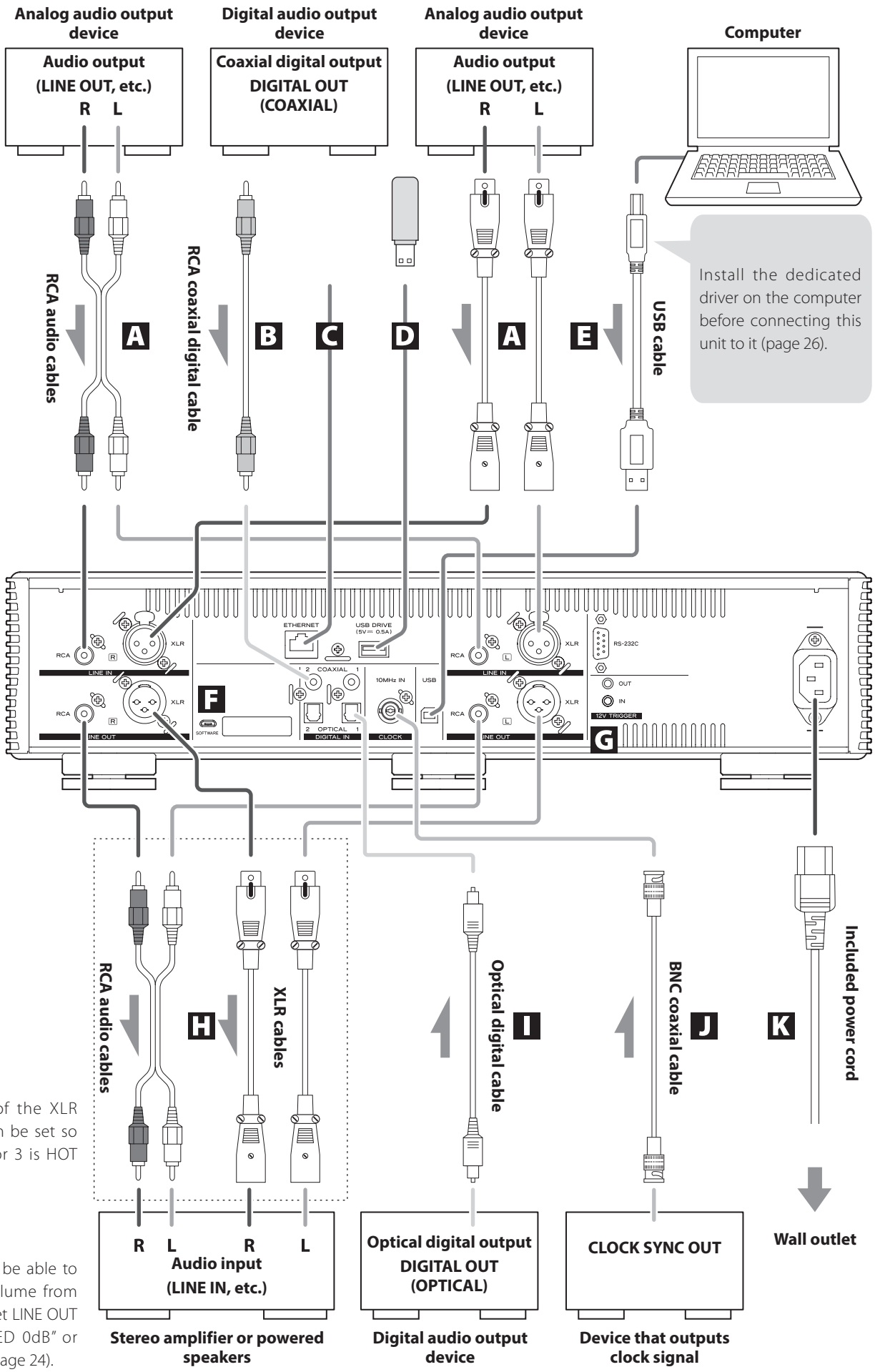
When connecting an external clock output device to both this unit and a digital audio output device

Set CLOCK SYNC to ON (DIN SYNC).



EN

Connections (back) (continued)



The polarity of the XLR connectors can be set so that either 2 or 3 is HOT (page 23).

If you want to be able to control the volume from the amplifier, set LINE OUT LEVEL to "FIXED 0dB" or "FIXED +6dB" (page 24).

A Analog audio input (LINE IN) connectors

Use these to input stereo analog audio. Connect the audio output connectors of a cassette deck, CD player or other audio output equipment to these.

Use commercially-available RCA audio cables for connections.

Connect this unit's R input connector to the R output connector of the audio output device, and this unit's L input connector to the L output connector of the other device.

B RCA COAXIAL digital audio input connectors

Use these to input digital audio. Connect coaxial digital audio output connectors of audio devices here.

Use commercially-available RCA coaxial digital cables for connection.

C ETHERNET port

Connect a commercially-available LAN cable to this port when you want to connect this unit to a wired network or the Internet.

- When switching input sources, this port is labeled "NET".

D USB flash drive port (USB DRIVE)

Connect USB flash drives that contain audio files here.

- The maximum power supply is 0.5 A.
- This port can only be used to play audio files contained on a connected USB flash drive.
- To play audio files on a USB flash drive connected to a USB flash drive port, set the input source to NET and use an app for playback (page 7).

E USB port

Use this to input digital audio from a computer. Connect it to a computer's USB port.

Use a commercially-available USB2.0 cable (A-B type) for this connection.

ATTENTION

Before connecting a computer that is running a Windows OS, you must install the dedicated driver on the computer (page 26).
Proper connection is not possible with a computer that does not have this driver installed.

F Maintenance port

This is used for maintenance. Do not connect anything to this port unless instructed to do so by our service department.

G 12V TRIGGER connectors

Use these to control power from an external source.
Do not connect anything to these connectors when not using them (page 10).

Use commercially-available mono mini plug cables for connections.

H Analog audio output (LINE OUT) connectors

These output 2-channel analog audio. Connect these XLR or RCA connectors to a stereo amplifier or powered speakers.

Use commercially available cables for connections.

XLR: balanced XLR cables
RCA: RCA audio cables

Connect this unit's R connector to the R connector of the amplifier and its L connector to the L connector of the amplifier.

I OPTICAL digital audio input connectors

Use these to input digital audio. Connect optical digital audio output connectors of audio devices here.

Use commercially-available optical digital cables with square connectors (TOSLINK) for connection.

J CLOCK sync input (10MHz IN) connector

Use the CLOCK sync input (10MHz IN) connector to input 10MHz clock synchronization signals (page 31).

Use a commercially available BNC coaxial cable for connection.

- Clock sync is only possible when the input source is USB, NET (including USB flash drives), COAXIAL or OPTICAL.

K Power inlet (~IN)

Connect the supplied power cord here.
After all other connections are complete, connect the power cord's plug to a wall outlet.

⚠ **Do not use any power cord other than the one included with this unit. Use of other power cords could result in fire or electric shock.**

⚠ **Disconnect the power plug from the outlet if you will not use the unit for a long time.**

EN

Synchronizing external devices with power operations of this unit (trigger function)

The power of a connected preamp or another device that supports trigger functions can be synchronized with the power operations of this unit.
Use commercially-available mono mini plug cables for connections.

ATTENTION

To use the trigger function, set this unit's STANDBY/ON switch to ON.

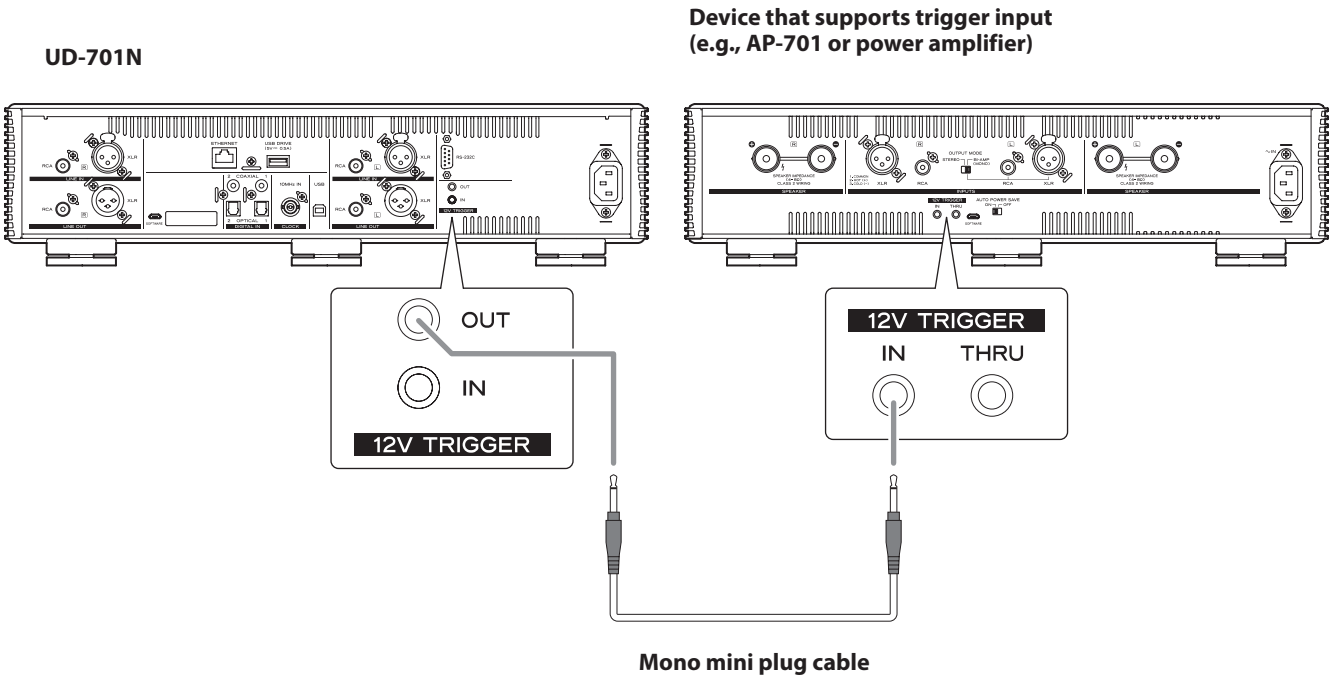
12V TRIGGER connectors

OUT

When this unit is turned on, it outputs 12 V.
By connecting this unit's OUT connector to a device that supports trigger input (e.g., a power amplifier or subwoofer), the power supply of that device can be synchronized with the power operations of this unit.

IN

Connect this to the trigger output connector of a preamp or other device.
This will make the power operation of that preamp or other device control this unit, putting it in standby and turning it on.



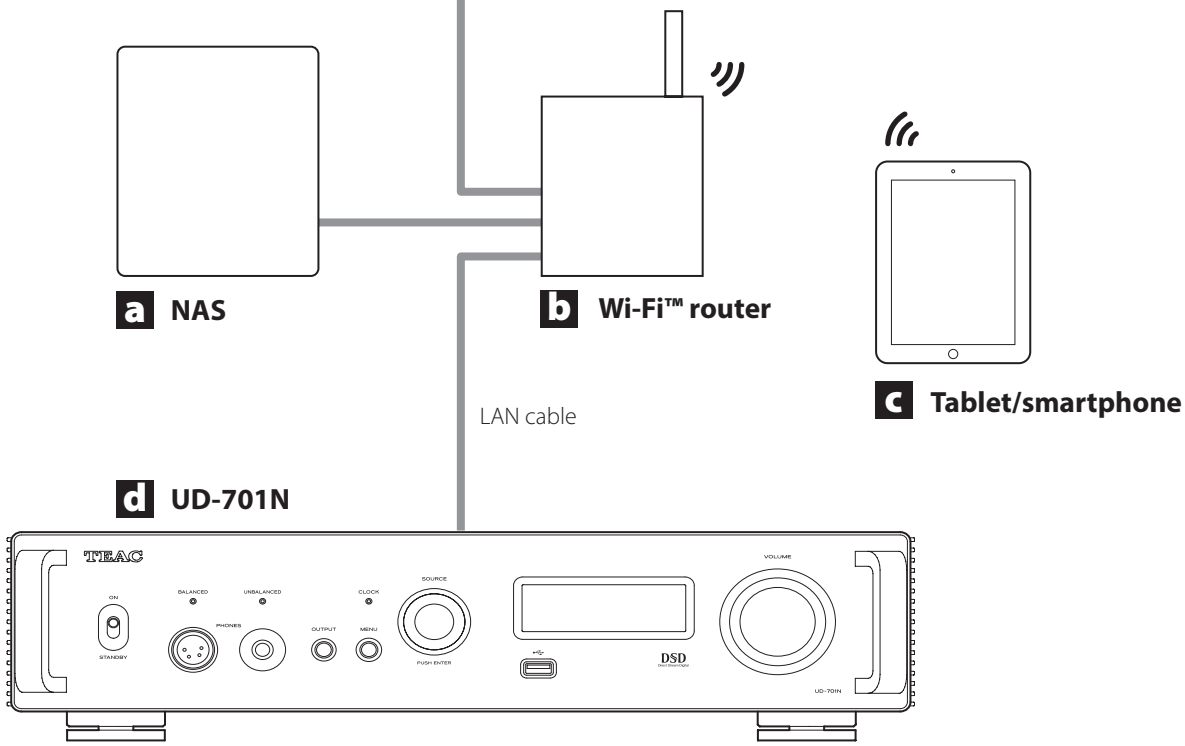
⚠ Complete all other connections before turning the unit on.

- Carefully read the manuals of the devices that you are connecting and follow their instructions when making connections.
- Do not bundle connecting cables with power cords. Doing so could cause noise.
- Connect all plugs completely.

EN

Connection example

- The Wi-Fi router must be connected to the Internet when installing apps on the tablet/smartphone, when updating the NET firmware of this unit, and when listening to Internet radio.



a NAS (Network Attached Storage)

Use this to store audio files.
Operation as a UPnP server is necessary to use it as a media server.

Recommended NAS
Synology NAS, QNAP, Soundgenic, Melco Music Library, fidata

Recommended media servers
MinimServer, Twonky Server

Instead of using an NAS, audio files can also be put on a USB flash drive and that device connected to a USB flash drive port on this unit. Then, those files can be played back using the media server function of the UD-701N (page 7).

b Wi-Fi™ router

Use Wi-Fi to connect the tablet or smartphone to this unit and the NAS.

c Tablet/smartphone

Install the app to control this unit.

d UD-701N

The IP address for this unit is acquired from the DHCP server.

NOTE

Use LAN cables that are at least CAT5e.

Connections (front)

Connecting headphones

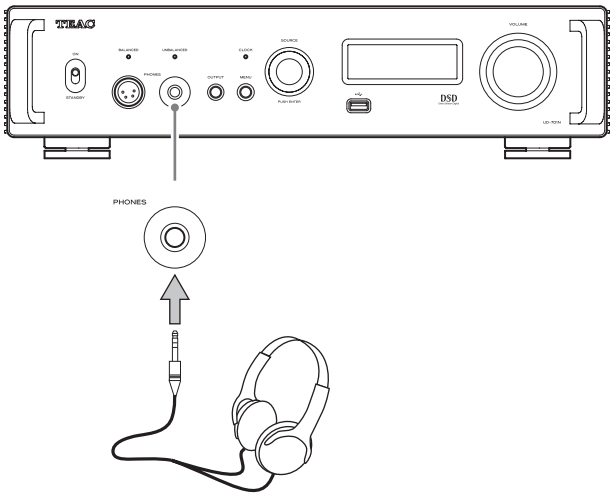
⚠ CAUTION

While wearing headphones, do not connect or disconnect them or turn the unit on or off.
Doing so could result in a sudden loud noise that could harm your hearing.

Before putting headphones on, always set the volume to minimum (display should show "0" when set to "STEP (0-100)" or "–∞ dB" when set to "dB") (page 18).

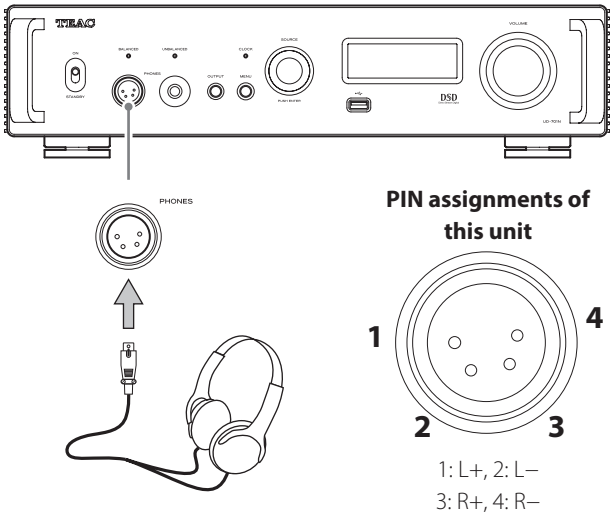
UNBALANCED

Connect headphones with a standard 6.3mm (1/4") stereo plug here.



BALANCED

Connect headphones with a 4-pin XLR plug here.



PIN assignments of this unit

1: L+, 2: L–
3: R+, 4: R–

Using the remote control

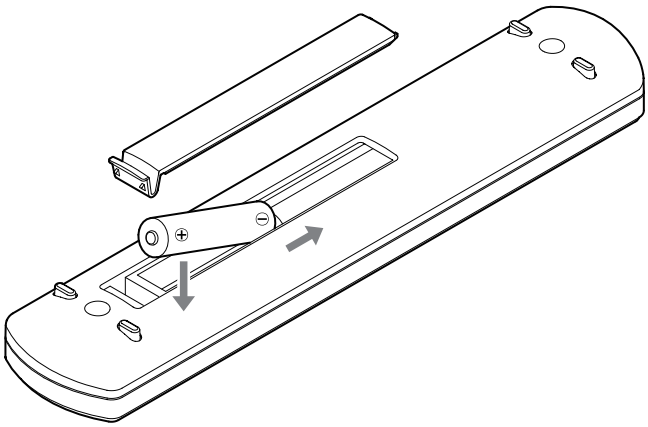
Precautions for use

⚠ **Misuse of batteries could cause them to rupture or leak, which might result in fire, injury or the staining of nearby materials. Please carefully read and observe the precautions on page 3.**

- When using the remote control, point it toward the remote control signal receiver on the main unit from a distance of 5 m (16 ft) or less. Do not place obstructions between the main unit and the remote control.
- The remote control might not work if the remote control signal receiver on the unit is exposed to direct sunlight or bright light. If this occurs, try moving the unit.
- Beware that use of this remote control could cause the unintentional operation of other devices that can be controlled by infrared rays.

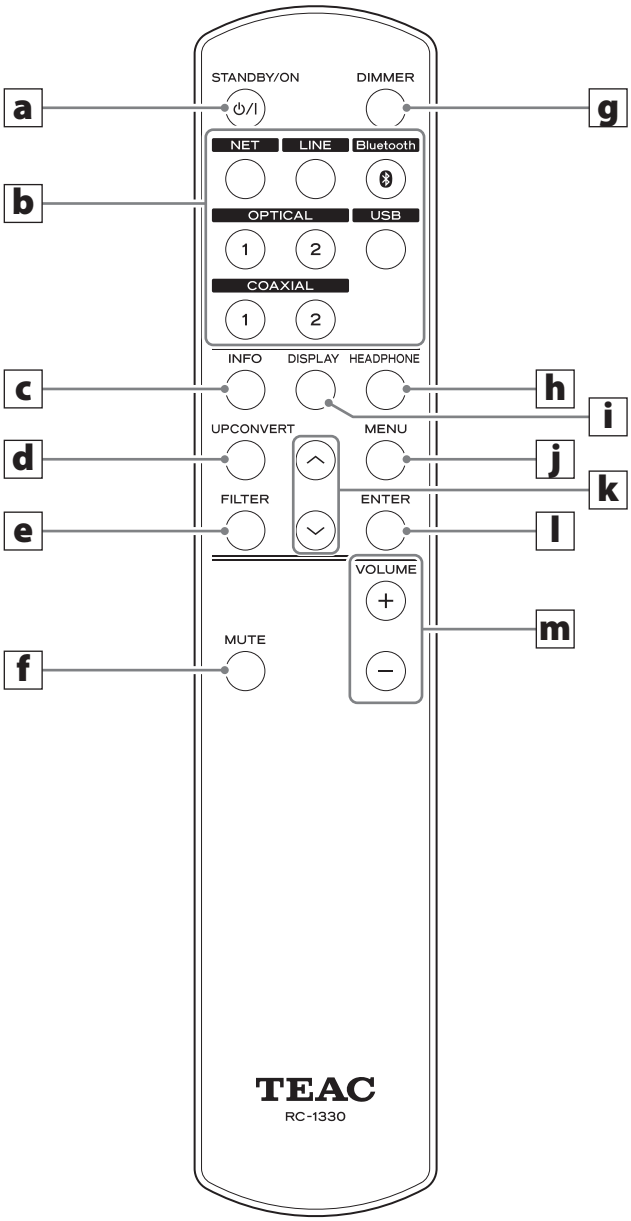
Installing batteries

Remove the cover from the back of the remote control and insert two AAA batteries with their ⊕/⊖ oriented as shown in the case. Replace the cover.



When to replace batteries

If the distance required between the remote and the main unit decreases or if the unit stops responding to the remote buttons, replace both batteries with new ones.
Dispose of the used batteries according to the instructions on them or requirements set by your local municipality.



When the main unit and the remote control both have buttons with the same functions, this manual explains how to use one of the buttons. The other corresponding button can be used in the same manner.

a STANDBY/ON button

Press this to put the unit into standby mode or turn it on.

b Input selection buttons

Use these to select the playback source.

c INFO button

Press this to show information, including upconversion (page 17).

d UPCONVERT button

Press this to change the upconversion setting.

e FILTER button

Press this to change the DAC low-pass filter setting (page 25).

f MUTE button

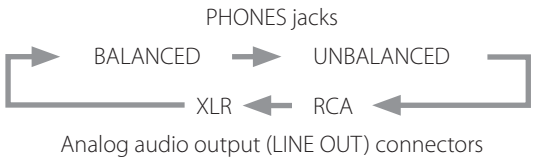
Press this to minimize the volume.

g DIMMER button

Press this to adjust the brightness of the main unit's display.

h HEADPHONE button

Press this to switch which connector outputs analog audio.



i DISPLAY button

j MENU button

Press this to enter setting mode (page 22).
Press this when in setting mode to return to the previous screen.

k Up/down (∧/∨) buttons

Use these to select setting items.

l ENTER button

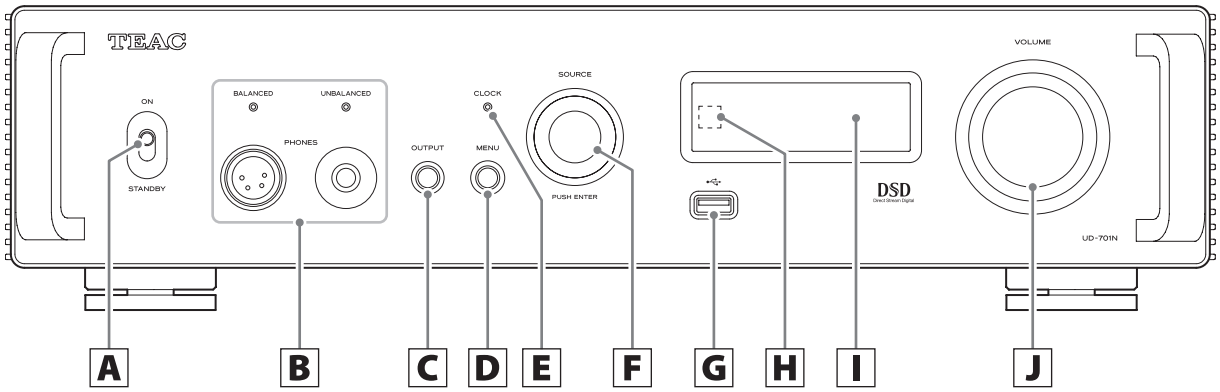
Press this to confirm the selected item.

m VOLUME (+/–) buttons

Use these to adjust the volume.

EN

Main unit parts and functions



A STANDBY/ON switch

Use this to put the unit into standby mode or turn it on.

- If the display is off even though the STANDBY/ON switch is set to ON, the cause is usually one of the following.
  - The power is on, but DIMMER (display brightness) is set to AUTO OFF (page 24).
  - The automatic power saving function has activated, putting the unit into standby (page 25).
  - The power cord is disconnected.
  - The unit is in standby because of the trigger function (page 10).

  To turn the unit on when the automatic power saving function has activated, putting the unit into standby, press the STANDBY/ON button on the remote control, or set the STANDBY/ON switch to STANDBY once and then back to ON.

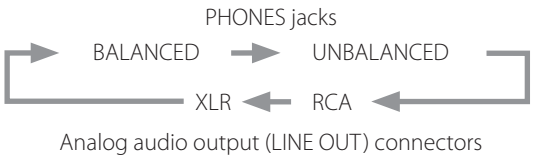
B PHONES jacks

Connect headphones plugs (standard 6.3mm (1/4") stereo or 4-pin XLR) here (page 12).

- The indicator lights for the jack that is outputting analog audio.

C OUTPUT button

Press this to switch which connector outputs analog audio.



D MENU button

Press this to enter setting mode (page 22).
Press this when in setting mode to return to the previous screen.

E CLOCK indicator

This shows the clock synchronization status.

Lit:	The unit is currently synchronized with the clock from the CLOCK sync input (10MHz IN) connector.
Blinking:	No clock is being input, or the unit is trying to synchronize with the clock signal.
Unlit:	External clock is not being used.

- See page 23 for clock sync settings.

F SOURCE knob

Use this to select the input source.
Use this to change setting values when a menu item is shown.

Press this to use it as an ENTER button.
Turn this when the menu is open to change the item shown or the setting value.

G USB flash drive port (⭠)

Connect USB flash drives here.

- To play audio files on a USB flash drive, set the input source to NET and use the app for playback (page 7).
- The maximum power supply is 0.5 A.
- Computers should not be connected to the USB flash drive ports on the front and back of the unit. To input audio from a computer, connect it to the USB port on the back of the unit.

H Remote control signal receiver

This receives signals from the remote control. When operating the remote control, point it at the remote control signal receiver.

I Display

This display shows information about the audio playing back and menu screens.

J VOLUME knob

Use this to adjust the volume. Turn it right to increase and left to decrease the volume.

- To enable adjustment of this unit's analog audio output volume, set LINE OUT LEVEL to VARIABLE (page 24). This will enable adjustment of the analog output level using this unit's VOLUME knob.
- Volume settings are retained separately for analog audio output and headphone output.

Upconversion

You can use the upconversion function with all input sources (page 23).

The relationships between input sampling frequencies and sampling frequencies after upconversion are as follows.

Input source		Upconversion setting			
Digital audio input	USB	OFF	2× Fs	4× Fs	8× Fs
Input sampling frequency		Sampling frequency after upconversion			
[kHz]		[kHz]			
32	–	32	64	128	256
44.1	44.1	44.1	88.2	176.4	352.8
88.2	88.2	88.2	88.2	176.4	352.8
176.4	176.4	176.4	176.4	176.4	352.8
–	352.8	352.8	352.8	352.8	352.8
48	48	48	96	192	384
96	96	96	96	192	384
192	192	192	192	192	384
–	384	384	384	384	384

These values are not converted.

- The maximum upconversion is 8× Fs.
- Upconversion is not possible when the input is DSD.

EN

Display

When on

TEAC

After messages like the above appear, the input source will be shown on the display.

Playback source screen

The playback source screen will appear after turning the unit on as well as after about seven seconds pass without operation when a setting screen is open.

The input signal format or volume is shown to the right of the playback source. Press the DISPLAY button on the remote control to change what is shown.

Display examples

Playback source information screen

Stopped

Playback source

USB CHECK

Shown when the connection is being checked

Playing back

Input signal format

USB PCM 44.1k

Sampling frequency

Press the DISPLAY button on the remote control.
Volume display

USB –45.5dB

Volume

Playback source name

This shows the name of the selected source.
The names on the display correspond to the selected connectors as follows.
The names in parentheses appear when switching.

USB (USB)
USB port (USB Type B on back)

COAX1 (COAXIAL 1)
RCA COAXIAL digital audio input connector 1

COAX2 (COAXIAL 2)
RCA COAXIAL digital audio input connector 2

OPT1 (OPTICAL 1)
OPTICAL digital audio input connector 1

OPT2 (OPTICAL 2)
OPTICAL digital audio input connector 2

NET (NETWORK)
ETHERNET port

Bluetooth (Bluetooth)
Bluetooth device

LINE RCA (LINE RCA)
RCA analog audio input connectors

LINE XLR (LINE XLR)
XLR analog audio input connectors

Input signal status

This shows the input source signal status.

NOTE

Nothing will be shown when set to LINE RCA or LINE XLR.

CHECK
The connection is being checked.

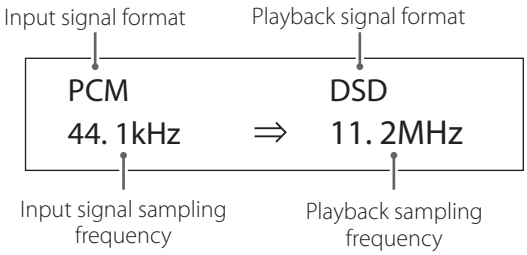
PCM 32kHz
PCM 44.1kHz
PCM 48kHz
PCM 88.2kHz
PCM 96kHz
PCM 128kHz
PCM 176.4kHz
PCM 192kHz
PCM 256kHz
PCM 352.8kHz
PCM 384kHz
DSD 2.8MHz
DSD 5.6MHz
DSD 11.2MHz
DSD 22.5MHz
These show the input signal type and sampling frequency.

Playback format information screen

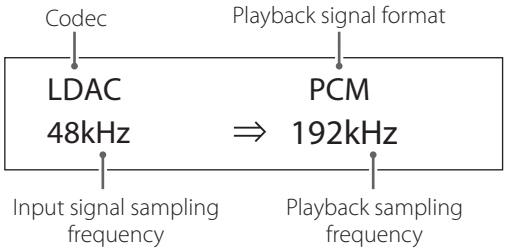
Press the INFO button on the remote control during playback to show playback format information.

Example when the playback source is USB, COAX1, COAX2, OPT1 or OPT2

- The input signal and playback signal displays will be the same when the upconversion setting is "OFF".



Example when the playback source is NET or Bluetooth



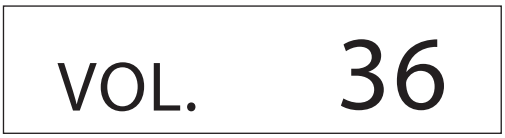
Volume display

Two types of volume can be shown: STEP and dB.
This is set by the VOLUME TYPE setting (page 24).

The volume setting shown will be enlarged when you turn this unit's VOLUME knob.

VOLUME TYPE set to "STEP (0-100)"

Display example



The maximum volume level is 100 and the minimum level is 0. Before connecting headphones, set the VOLUME knob to its minimum value (0). Failure to do so might cause sudden loud noises, which could damage headphones, harm hearing or result in other trouble.

VOLUME TYPE set to "dB"

Display example

The maximum volume level is +24 dB and the minimum level is −∞ dB (negative infinity). Before connecting headphones, set the VOLUME knob to its minimum value (−∞ dB). Failure to do so might cause sudden loud noises, which could damage headphones, harm hearing or result in other trouble.

The set output level is shown when LINE OUT LEVEL is set to "FIXED 0dB" or "FIXED +6dB".

Example when VOLUME TYPE set to "dB"

- If VOLUME TYPE is set to "STEP (0-100)", "VOL. 86" will be shown when set to "FIXED 0dB" and "VOL. 90" will be shown when set to "FIXED +6dB".

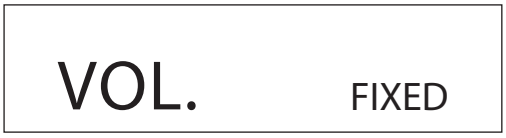
When headphones are not connected and LINE OUT LEVEL is set to "OFF", "VOL. 0" or "−∞ dB" will be shown.

Example when VOLUME TYPE set to "dB"

When headphones are not connected and LINE OUT LEVEL is set to FIXED or OFF

Turning the VOLUME knob will cause the following to be displayed.

LINE OUT LEVEL set to FIXED

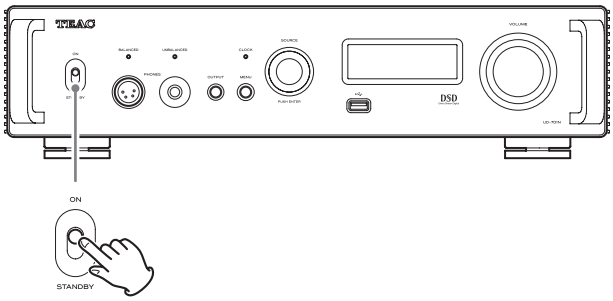


LINE OUT LEVEL set to OFF

EN

Basic operation

1 Shift the STANDBY/ON switch to its ON position to turn the unit on.

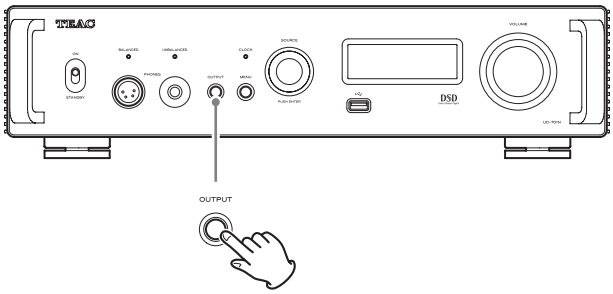


- If a stereo amplifier is connected to this unit, always turn the amplifier on very last.

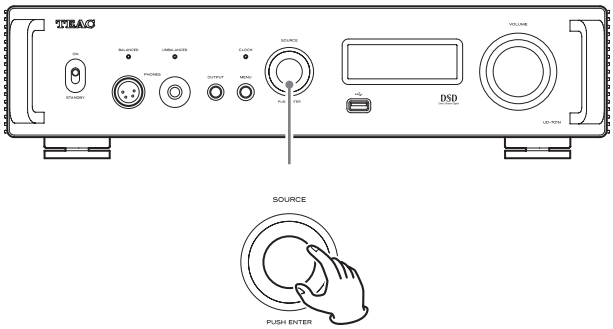
2 Minimize the volume.

Minimize the volume on devices used to control the volume (this unit, the stereo amplifier or other equipment connected to this unit).

3 Press the OUTPUT button to select the connector(s) that output(s) analog audio.



4 Turn the SOURCE knob to select the input source.



The selected source appears on the display.

- You can also use the input selection buttons on the remote control.
- If the input signal is not a digital audio signal or is an audio signal format that is not supported by this unit, such as Dolby Digital or DTS, no audio will be output. Set the digital output of the connected device to PCM audio output.
- To play back audio files when this unit is set to USB, you must first install a dedicated driver on the computer before connecting them (page 26).
- DSD data can only be played back when the input source is USB or NET (including USB flash drives) or when using DoP format digital input.
- To use NET or a USB flash drive port (front or back), install TEAC HR Streamer (free) on a smartphone or tablet, and connect it to the same network as the unit.

5 Operate the playback device.

Refer to the operation manual of that device.

6 Adjust the volume.

When using the line outputs

When LINE OUT LEVEL is set to VARIABLE, turn this unit's VOLUME knob to adjust the volume.

When LINE OUT LEVEL is set to any other setting, the volume cannot be adjusted from this unit. Use the stereo amplifier or other device connected to this unit to adjust the volume.

When headphones are connected to this unit

Turn this unit's VOLUME knob to adjust the volume.

- When this unit's VOLUME knob is enabled, the volume setting will be shown.

NOTE

- The automatic power saving function is set to ON when shipped new from the factory (page 25).
- When DIMMER (display brightness) is set to AUTO OFF, the display will turn off during playback (page 24).

Bluetooth® notes

When using this unit with a mobile phone or other Bluetooth devices, they should be no more than about 10 m (33 ft) apart.
Depending on the circumstances of use, however, the effective transmission distance might be shorter.
Wireless communication with every device that supports Bluetooth wireless technology is not guaranteed.
To determine the compatibility between this unit and another device that supports Bluetooth wireless technology, refer to that device's operation manual or contact the shop where you purchased it.

Profiles

This unit supports the following Bluetooth profiles.

- A2DP (Advanced Audio Distribution Profile)
- AVRCP (Audio/Video Remote Control Profile)

In order to transfer audio using Bluetooth wireless transmission, the Bluetooth device must support A2DP.
In order to control playback on the Bluetooth device, it must support AVRCP.
Even if a Bluetooth device supports the same profiles, though, its functions might differ according to its specifications.

Codecs

This unit supports the following codecs. It will automatically select one of them during audio transfer.

- LDAC
- LHDC
- Qualcomm® aptX™ HD audio
- Qualcomm® aptX™ audio
- AAC
- SBC

The unit will select the appropriate codec to use according to the codec compatibility of the other Bluetooth device and communication conditions.

LDAC is an audio coding technology developed by Sony that enables the transmission of High-Resolution (Hi-Res) Audio content, even over a Bluetooth connection.
Unlike other Bluetooth compatible coding technologies such as SBC, it operates without any down-conversion of the Hi-Res Audio content*, and allows approximately three times more data** than those other technologies to be transmitted over a Bluetooth wireless network with unprecedented sound quality, by means of efficient coding and optimized packetization.

* excluding DSD format contents
** in comparison with SBC (Subband Coding) when the bitrate of 990 kbps (96/48 kHz) or 909 kbps (88.2/44.1 kHz) is selected

NOTE

- You cannot select the codec to be used by pressing a button, for example.
- Due to the characteristics of Bluetooth wireless technology, compared to playback on the Bluetooth device, playback through this unit will be slightly delayed.

Content protection

This unit supports SCMS-T as a form of content protection when transmitting audio, so it can play protected audio.

Transmission security

This unit supports security functions during Bluetooth wireless transmission in accordance with the Bluetooth standard specifications, but it does not guarantee the privacy of such transmissions.
TEAC CORPORATION will bear no responsibility should an information leak occur during Bluetooth wireless transmission.

Pairing with another Bluetooth device

Pairing this unit with another Bluetooth device is necessary the first time it is used and when connecting to a different Bluetooth device for the first time.

1 Turn the SOURCE knob to select Bluetooth.

Bluetooth CHECK

2 Enable Bluetooth transmission on the other Bluetooth device.

3 Press and hold the SOURCE knob to enter pairing mode.

PAIRING. . .

- "PAIRING…" blinks when pairing.

4 On the other Bluetooth device, select "UD-701N" (this unit).

After this unit enters pairing mode, pair with it from the other Bluetooth device.
For details, refer to the operation manual of that Bluetooth device.

After connection, the display will show the name of the connected device, followed by the input source.

Display example

CONNECTED TO
device 001

↓

Bluetooth VOL. 6

Playback from a Bluetooth device

- Pair this unit the first time you use it and when you want to connect it with a different Bluetooth device for the first time.
- When pairing or connecting with another Bluetooth device, they should be within a few meters of each other. If they are too far apart, pairing and connection afterwards might become impossible.

1 Enable Bluetooth transmission on the other Bluetooth device.

2 Turn the SOURCE knob to select Bluetooth.

This sets the source to Bluetooth.

- You can also use the Bluetooth button on the remote control.

Display example

Bluetooth CHECK

↓

CONNECTED TO
device 001

↓

Bluetooth VOL. 6

This unit will search for paired devices and automatically connect to one if found.

ATTENTION

Depending on the Bluetooth device, you might also need to conduct connection operations on it.
If you are unable to connect it successfully, refer to the operation manual of the Bluetooth device.

Changing the connected device

1 Press the SOURCE knob to show DEVICE SELECT.

The bottom line of the display shows the name of the last connected device.

Display example

```
MENU
DEVICE SELECT
⇒ Player_1
```

Name of last connected device

2 Turn the SOURCE knob to show already paired Bluetooth devices.

- The unit can remember a maximum of eight device pairings.
- If no paired device is available, the screen will appear as follows.

```
MENU
DEVICE SELECT
⇒ NO PAIRED DEVICE
```

- Press and hold the ENTER button to enter pairing mode (page 20).
- The first 16 characters of the device name are shown.
- If characters other than English letters and numbers are included in the device name, it will not be shown properly.

3 Press the SOURCE knob to connect.

After connection, the display will show the input source.

⚠ ATTENTION

Regardless of the connection status of this unit and the other Bluetooth device, if the input source is not shown, restart both this unit and the other device and then connect them again.

ATTENTION

Depending on the Bluetooth device, you might also need to conduct connection operations on it.
If you are unable to connect it successfully, refer to the operation manual of the Bluetooth device.

4 Start playback on the other Bluetooth device.

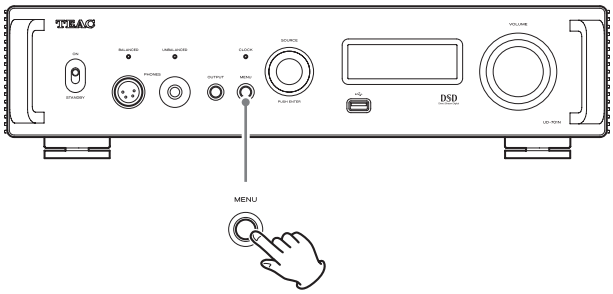
Confirm that the volume is turned up on the other Bluetooth device. If you do not turn up the volume on the playback device, no sound might be output from this unit.

NOTE

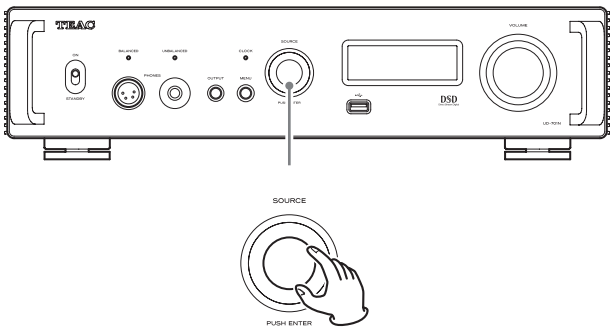
Press and hold the MENU button to clear all pairings with other Bluetooth devices.

Settings

1 Press the MENU button to open the menu screen.

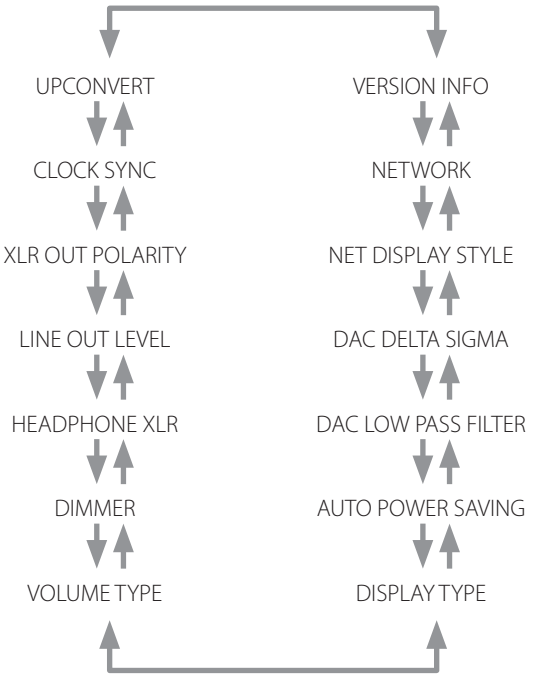


2 Turn the SOURCE knob to show the item that you want to set.

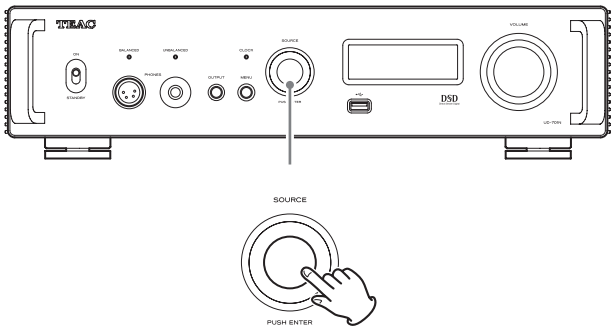


- You can also use the up and down (∧, ∨) buttons on the remote control.

The menu items appear in the following order.



3 Press the SOURCE knob.



- You can also press the ENTER button on the remote control.
- The currently set value is shown on the display.

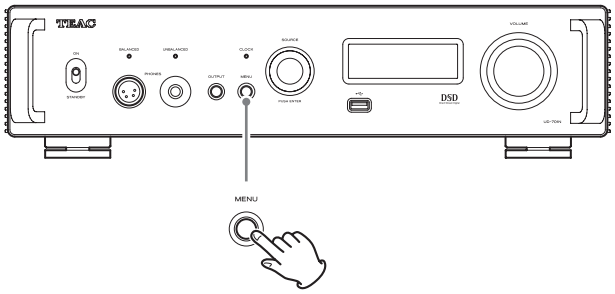
4 Turn the SOURCE knob to change the setting value.

- You can also use the up and down (∧, ∨) buttons on the remote control.
- Press the MENU button to return to setting item selection.

5 Press the SOURCE knob.

- You can also press the ENTER button on the remote control.

6 When you are done changing settings, press the MENU button to show the input source status again.



- If you do not do anything for about seven seconds, the display will return to showing the input source status.

Upconversion

Use this to set use of the upconversion circuit when receiving PCM signals.

- See page 15 for the relationships between input sampling frequencies and sampling frequencies after upconversion.

```
MENU
    UPCONVERT
    ⇒ OFF
```

OFF
The input signal is sent as is to the D/A converter without being upconverted.

2× Fs
If the input audio signal is less than 2× a standard sampling frequency, it is upconverted 2× and then sent to the D/A converter.

4× Fs
If the input audio signal is less than 4× a standard sampling frequency, it is upconverted 4× and then sent to the D/A converter.

8× Fs
If the input audio signal is less than 8× a standard sampling frequency, it is upconverted 8× and then sent to the D/A converter.

Clock sync

- Clock sync is only possible when the input source is USB, NET (including USB flash drives), COAXIAL or OPTICAL.

```
MENU
    CLOCK SYNC
    ⇒ OFF
```

OFF
No clock sync is used.

ON (DIN ASYNC)
This unit's master clock will be synchronized to the 10MHz clock input through the CLOCK sync input (10MHz IN) connector.

- When the input source is COAXIAL or OPTICAL, select this when only this unit is synchronized with external clock.

ON (DIN SYNC)
This unit's master clock will be synchronized to the 10MHz clock input through the CLOCK sync input (10MHz IN) connector.

- When the input source is COAXIAL or OPTICAL, select this when both this unit and the digital audio output device are synchronized with the same external clock.

NOTE

When the input source is USB or NET (including USB flash drives), operation will be the same when set to either ON (DIN ASYNC) or ON (DIN SYNC).

XLR polarity

```
MENU
    XLR OUT POLARITY
    ⇒ PIN 2 HOT
```

Use this to set the polarity of the XLR analog audio output (LINE OUT) connectors.

PIN2 HOT
Output through the XLR connectors with 2: HOT polarity.

PIN3 HOT
Output through the XLR connectors with 3: HOT polarity.

Line output level

MENU
LINE OUT LEVEL
⇒ FIXED 0dB

Use this to set the audio level output from the analog audio output (LINE OUT) connectors.

FIXED 0dB
A maximum of 2 Vrms is output. Select this if you want to adjust the volume using an amplifier.

- No sound will be output if headphones are connected.

FIXED +6dB
A maximum of 4 Vrms is output. Select this if you want to adjust the volume using an amplifier.

- No sound will be output if headphones are connected.
- If the sound distorts, set this to FIXED 0dB.

VARIABLE
This will enable adjustment of the analog output level using this unit's VOLUME knob. Select this if you want to adjust the volume using this unit.

- No sound will be output if headphones are connected.

OFF
No sound is ever output.

Headphone setting (XLR)

MENU
HEADPHONE XLR
⇒ BALANCED

Set the driver type of the headphones connected to the BALANCED PHONES jack.

BALANCED
Balanced headphones are operated with differential drive.
The negative and positive connectors operate with opposite polarities.

ACTIVE GROUND
The amp drives so that the negative connector of balanced headphones is 0 V.
To the headphones, the characteristics of the outputs become equivalent.

Display brightness

MENU
DIMMER
⇒ BRIGHT

DARK
Dark

SLIGHTLY BRIGHT
Lit dimly

BRIGHT
Bright

AUTO OFF
Turns off automatically

- The display turns off during playback even when the unit is on.

Volume display

MENU
VOLUME TYPE
⇒ STEP (0-100)

This sets how the volume is shown.

STEP (0-100)
This shows the volume in steps from 0 (minimum) to 100 (maximum).

dB
This shows the volume in decibels (dB).

Screen indication

Select the information shown to the right of the playback source.

MENU
DISPLAY TYPE
⇒ VOLUME

VOLUME
The volume is shown.

SAMPLING FREQ.
Information about the playback source is shown.

Automatic power saving function

This unit has an automatic power saving function.

- The automatic power saving function is on when the unit is shipped new from the factory.

```
MENU
    AUTO POWER SAVING
    ⇒ ON
```

OFF
The automatic power saving function is disabled.

ON
The unit will automatically enter standby mode if no audio is output and no operation is conducted for about 30 minutes.

DAC low-pass filter

```
MENU
    DAC LOW PASS FILTER
    ⇒ OFF
```

OFF
The DAC low-pass filter is not used.

ON
The DAC low-pass filter is used.

PCM signal D/A conversion

```
MENU
    DAC DELTA SIGMA
    ⇒ 256x Fs
```

This sets the ΔΣ modulator sampling frequency.
Select the sound setting you prefer.

64× Fs
128× Fs
256× Fs
512× Fs

Display style during network input

```
MENU
    NET DISPLAY STYLE
    ⇒ NORMAL
```

Select what is shown when the network is the playback source.

NORMAL
The playback source is shown with the input signal format or volume.

PLAYER
The index, time, title and other items are shown.

Network input circuit power supply setting

```
MENU
    NETWORK
    ⇒ ENABLED
```

Use this to turn the network input circuit power supply on and off.

ENABLED
This turns the network input circuit power supply on and plays audio files from the network.

DISABLED
This turns the network input circuit power supply off, stopping operation of the network input circuit.
NET will not be shown as an input source option (page 16).

Information display

```
MENU
    VERSION INFO
    ⇒ SYSTEM
```

This shows the version of the firmware used by the unit.

SYSTEM
The microcomputer firmware version

USB
The USB firmware version

FPGA
The FPGA firmware version

Bluetooth
The Bluetooth module firmware version

NETWORK
The network module firmware version

Playing back music on a computer

Supported operating systems

This unit can be connected by USB and used with a computer running one of the following operating systems.
Operation with other operating systems cannot be assured (as of January, 2021).

When using Mac

OS X Yosemite (10.10)
OS X El Capitan (10.11)
macOS Sierra (10.12)
macOS High Sierra (10.13)
macOS Mojave (10.14)
macOS Catalina (10.15)
macOS Big Sur (11.0)

When using Windows

Windows 7 (32/64-bit)
Windows 8 (32/64-bit)
Windows 8.1 (32/64-bit)
Windows 10 (32/64-bit)

Installing the driver

When using Mac

This unit can be operated with the standard OS driver, so there is no need to install a driver.
A dedicated driver must be installed on the computer, however, to use Bulk Pet.

When using Windows

To use this unit for playback of files on a computer, install the dedicated driver on the computer.

IMPORTANT NOTICE

You must install the dedicated driver software before connecting this unit with a computer using a USB cable.
If you connect the unit to the computer by USB before installing the driver, it will not function properly.

Depending on the composition of the computer hardware and software, operation might not be possible even with the above operating systems.

Installing the driver on a computer

Install the dedicated driver software on the computer after downloading it from the following URL.
For details about installation and OS setting procedures, see the TEAC ASIO USB DRIVER Installation Guide included with the driver.

TEAC International Site
https://teac.jp/int/product/ud-701n/download

Note about transmission modes

This unit can transfer data using Isochronous or Bulk Pet mode.
The sampling frequencies that can be transmitted are 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz and 384 kHz.
When properly connected, you will be able to select "TEAC USB AUDIO DEVICE" as an audio output from the computer OS.

- Audio data sent from the computer will be processed using this unit's clock during data transmission, enabling reduction of jitter.

Downloading playback application TEAC HR Audio Player

You can download Mac and Windows versions of our free TEAC HR Audio Player application that supports playback of DSD files from the TEAC International Site (https://teac.jp/int/).

https://teac.jp/int/product/hr_audio_player/download

TEAC HR Audio Player setting note

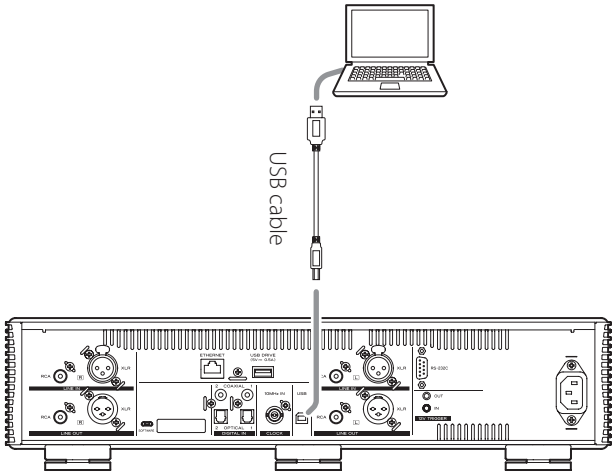
To play 22.5MHz DSD recordings with TEAC HR Audio Player, open the Configure window and set the "Decode mode" to "DSD Native."

To play formats other than 22.5MHz DSD, you can set this to either "DSD over PCM" or "DSD Native" as you like.

For details, see "Selecting DSD decoding mode" in the TEAC HR Audio Player Owner's Manual.

Playing back audio files from a computer

1 Connect the USB port on the back of this unit to the computer using a USB cable.

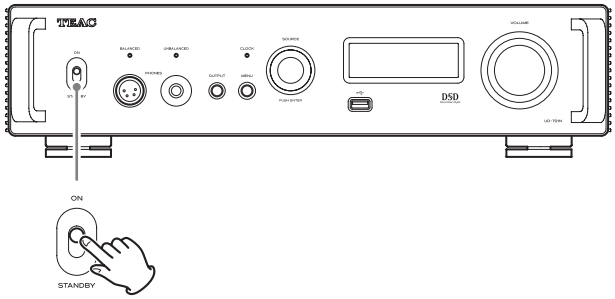


- Use a cable with a connector that matches that of this unit.

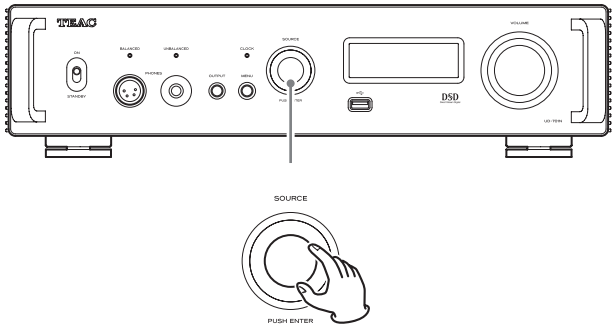
2 Turn the computer on.

- Confirm that the operating system has started properly.

3 Shift the STANDBY/ON switch to its ON position to turn the unit on.



4 Turn the SOURCE knob to select USB.



5 Start playback of an audio file on the computer.

By maximizing the output volume from the computer and adjusting the volume output from the stereo amplifier, better sound quality can be achieved.

Minimize the stereo amplifier volume before beginning playback. Then, gradually increase it.

When using headphones connected to this unit, turn the VOLUME knob counterclockwise to minimize the volume before putting them on. Then, gradually increase it.

- The computer and this unit cannot control each other.
- Do not do any of the following when playing back audio files over the USB connection. Doing so could cause the computer to malfunction. Always quit the audio playback software before conducting any of these operations.
  - Unplugging the USB cable
  - Turning the unit off or putting it into standby mode
  - Changing the current input selection
- Computer operation sounds will also be transmitted when playing back audio files over the USB connection. To avoid outputting these sounds, make the necessary settings on your computer.
- If you start the audio playback software before connecting this unit with the computer or before setting the input to USB, audio files might not play back properly. If this occurs, restart the audio playback software or restart the computer.

EN

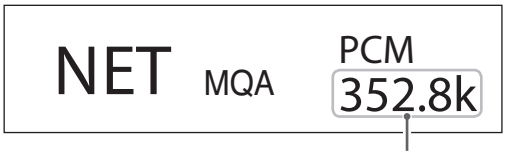
MQA (Master Quality Authenticated)

MQA is an award-winning British technology that delivers the sound of the original master recording. The master MQA file is fully authenticated and is small enough to stream or download.
Visit mqa.co.uk for more information.
The UD-701N includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording.

'MQA' or 'MQA.' indicates that the product is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. "MQA." indicates it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

- This unit can decode MQA streams and files only when the playback source is NET (including USB flash drives), USB, COAXIAL or OPTICAL.

Display example during MQA playback



Original sampling frequency

Troubleshooting

If you experience a problem with this unit, please take a moment to review the following information before requesting service. If it still does not operate correctly, contact the retailer where you purchased the unit.

General

The unit does not turn on.

- ➡ Check that the power cord is completely plugged into the power outlet. If the outlet is switched, confirm that the switch is in the ON position.
- ➡ Connect a different electrical device to the outlet to confirm that it is supplying power.
- ➡ If the automatic power saving function has caused the unit to enter standby, press the remote control STANDBY/ON button to turn the unit on again.

The unit automatically turns off.

- ➡ This is because the automatic power saving function turned the unit off. Set the STANDBY/ON switch to STANDBY once and then set it to ON again.
  Change the automatic power saving setting if necessary (page 25).

Remote control does not work.

- ➡ Turn the main unit on (page 18).
- ➡ If the batteries are exhausted, replace both of them with new ones (page 12).
- ➡ The remote control will not work if there are obstructions between it and the main unit. Point the remote control at the front panel of the unit from a distance of less than about 7 m (23 ft) (page 12).

A television or other device is operating improperly.

- ➡ The use of this unit's remote control might cause some televisions and other devices with wireless remote control functions to operate incorrectly.

There is a humming noise.

- ➡ If a connecting cable is near a power cord, fluorescent light or similar cause of interference, increase the distance between them as much as possible.

No sound is output.

- ➡ If a stereo amplifier is connected to this unit, adjust its volume.
- ➡ If you are using headphones connected to this unit, use the VOLUME knob to adjust the volume.
- ➡ Use the SOURCE knob to select the input that is connected to the source that you want to hear.
- ➡ Press the OUTPUT button to select the connectors that output analog audio.
- ➡ Reconfirm the connections with other equipment.
- ➡ This unit can only play two-channel audio signals. For details about signal formats, see the input signal formats indicated in the specifications.

There is no sound from one side of the headphones.

- ➡ Confirm that the headphones plug is inserted completely.

Clock sync

The CLOCK indicator does not stop blinking.

➡ Set clock synchronization to OFF when not using it.

➡ A clock signal to which the unit cannot synchronize might be being input. Check the connections of the clock sync connectors and the settings of the connected device.

Connections with a computer

Computer does not recognize this unit.

➡ See page 26 for information about supported operating systems. Operation with unsupported operating systems is not guaranteed.

Noise occurs.

➡ Starting other applications during playback of an audio file may interrupt playback or cause noise. Do not start other applications during playback.

➡ When the unit is connected to a computer via a USB hub, for example, noise might be heard. If this occurs, connect the unit directly to the computer.

Audio files cannot be played back.

➡ Connect this unit to the computer, and set this unit's input to USB before launching audio playback software.
If you connect this unit to the computer or set its input to USB after launching audio playback software, audio files might not play back properly.

Playback stopped working.

➡ Check the audio output device setting of the operating system. Try deleting the driver and reinstalling it. For details, see the TEAC ASIO USB DRIVER Installation Guide included with the driver.

Bluetooth connection

Cannot show device name.

➡ This unit does not support the display of symbols or double-byte characters, including Japanese and Chinese.
Use only English letters and numbers for the names of Bluetooth devices connected to this unit.

Cannot change connected Bluetooth device.

➡ This unit cannot have Bluetooth connections to multiple Bluetooth devices at the same time.
To change the device connected with this unit by Bluetooth, end the connection with the currently connected Bluetooth device before connecting to another Bluetooth device.

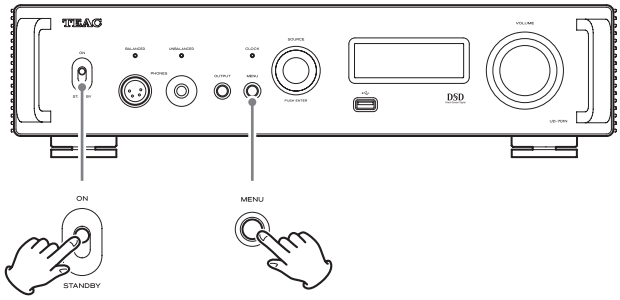
Sound is not output, or the volume is low.

➡ Confirm that the volume is turned up on the other Bluetooth device. If you do not turn up the volume on the playback device, no sound might be output from this unit.

Since this unit uses a microcontroller, external noise and other interference can cause the unit to malfunction. If this occurs, unplug the power cord, wait for a while, and then turn the unit on again and restart operations.

Restoring default settings

1 While pressing and holding the MENU button, set the STANDBY/ON switch to ON.



2 Release the MENU button when the FACTORY RESET menu appears.

```
MENU
    FACTORY RESET
    ⇒ ARE YOU SURE?
```

3 Press the SOURCE knob.

Resetting begins when "PLEASE WAIT!" appears.

```
PLEASE WAIT!
```

The playback source screen will appear after resetting completes.

Display example

```
USB          –45.5dB
```

ATTENTION

- Do not put the unit in standby until the playback source screen appears.
- This operation will restore all settings, including network settings, to their default values.

- The factory default settings are the setting values shown in the screen images used in the explanations in this manual.

EN

Specifications

Analog audio outputs

Connectors . . . . . XLR connectors × 1 pair (L/R)
RCA connectors × 1 pair (L/R)

Output impedance . . . . . XLR: 220 Ω
RCA: 180 Ω

Maximum output level (1 kHz/full-scale, into 10 kΩ)

FIXED 0dB . . . . . XLR/RCA: 2.0 Vrms

FIXED +6dB . . . . . XLR/RCA: 4.0 Vrms

VARIABLE . . . . . XLR: 12 Vrms
RCA: 6 Vrms

Frequency response* . . . . . 5 Hz – 80 kHz (+1 dB/–5 dB)

S/N ratio* . . . . . 110 dB (A-Weight, 1 kHz)

Distortion* . . . . . 0.005% (1 kHz, LPF: 20 Hz – 20 kHz)

*Measurement conditions
Input signal: 192kHz 24-bit PCM
Measurement output: RCA
DAC low-pass filter: ON

Headphones output

Connectors . . . . . Standard 6.3mm (1/4″) stereo jack × 1
4-Pin XLR jack × 1

Maximum effective output

UNBALANCED . . . . . 500 mW + 500 mW (one pair into 32 Ω)

BALANCED . . . . . 700 mW + 700 mW (into 32 Ω)

Applicable load impedance . . . . . 16–600 Ω

Analog audio inputs

Connectors . . . . . XLR connectors × 1 pair (L/R)
RCA connectors × 1 pair (L/R)

Input impedance . . . . . XLR: 50 kΩ
RCA: 25 kΩ

Maximum input level . . . . . XLR: 5 Vrms
RCA: 2.5 Vrms

Digital audio inputs**

USB . . . . . 1 (Type B port, USB 2.0 or higher)

Input signal formats

Linear PCM . . . . . 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz
16-bit, 24-bit, 32-bit

DSD . . . . . 2.8 MHz, 5.6 MHz, 11.2 MHz, 22.5 MHz

COAXIAL digital 2

Input level . . . . . 0.5 Vpp

Input impedance . . . . . 75 Ω

Input signal formats

Linear PCM
32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
16-bit, 24-bit

DSD . . . . . 2.8 MHz
(supported using 176.4kHz/24-bit DoP transmission)

OPTICAL digital 2

Input level . . . . . –24.0 dBm to –14.5 dBm peak

Input signal formats

Linear PCM
32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
16-bit, 24-bit

DSD . . . . . 2.8 MHz
(supported using 176.4kHz/24-bit DoP transmission)

ETHERNET 1
(1000BASE-T)

Input signal formats

Linear PCM . . . . . 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz (stereo)
16-bit, 24-bit, 32-bit

- Only files with integer formats can be played.

DSD . . . . . 2.8 MHz, 5.6 MHz, 11.2 MHz, 22.5 MHz (stereo)

Supported file formats

PCM lossless . . . FLAC, Apple Lossless (ALAC), WAV, AIFF, MQA

DSD lossless . . . . . DSF, DSDIFF (DFF), DoP

Compressed audio . . . . . MP3, AAC (m4a container)

USB flash drive ports . . . . . 2 (Type A port, USB 2.0 standard)

Maximum current supply . . . . . 0.5 A

Input signal formats

Linear PCM . . . . . 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz (stereo)
16-bit, 24-bit, 32-bit

- Only files with integer formats can be played.

DSD . . . . . 2.8 MHz, 5.6 MHz, 11.2 MHz, 22.5 MHz (stereo)

Supported file systems . . . . . FAT32, exFAT and NTFS
Single partition

Supported file formats

PCM lossless . . . FLAC, Apple Lossless (ALAC), WAV, AIFF, MQA

DSD lossless . . . . . DSF, DSDIFF (DFF), DoP

Compressed audio . . . . . MP3, AAC (m4a container)

**See the TEAC HR Streamer User's Manual for details about USB flash drive ports and networks.

Bluetooth function

Bluetooth version 4.0

Output class . . . . . Class 2

(transmission distance without obstructions*** . . . . . 10 m)

Supported profiles . . . . . A2DP, AVRCP

Supported A2DP codecs . . . . . LDAC, LHDC, Qualcomm® aptX™ HD audio, Qualcomm® aptX™ audio, AAC, SBC

Supported A2DP content protection . . . . . SCMS-T

Maximum number of stored pairings 8

***The transmission distance is approximate. The transmission distance could vary depending on the surrounding environment and electromagnetic waves.

Clock sync input

Connector . . . . . BNC

Input sampling frequency . . . . . 10 MHz

Input impedance . . . . . 50 Ω

Input level . . . . . Rectangle wave: equivalent to TTL levels
Sine wave: 0.5 to 1.0 Vrms

External control

Trigger input (12V TRIGGER IN) 1
(3.5mm mono mini jack)

Input level . . . . . 12 V, 1 mA

Trigger output (12V TRIGGER OUT) 1
(3.5mm mono mini jack)

Output level . . . . . 12 V

Maximum current supply . . . . . 100 mA

General

Power supply

Model for Europe . . . . . AC 220–240 V, 50/60 Hz

Model for U.S.A./Canada . . . . . AC 120 V, 60 Hz

Power consumption . . . . . 40 W

Standby power . . . . . 0.4 W (in standby mode)

External dimensions (W × H × D, including protrusions)
444 × 111.3 × 333.6 mm (17 1/2″ × 4 1/2″ × 13 1/4″)

Weight . . . . . 11.8 kg (26 1/8 lb)

Operating temperature range . . . . . +5°C to +35°C

Operating humidity range . . . . . 5% to 85% (no condensation)

Storage temperature range . . . . . –20°C to +55°C

Included accessories

Power cord × 1
Remote control (RC-1330) × 1
Batteries for remote control (AAA) × 2
Owner's manual (this document, including warranty) × 1

- For information about the warranty, users living in the USA and Canada should see pages 32–33 and the back cover (warranty document). Users living in Europe and other regions should see page 33.

- The TEAC HR Streamer User's Manual can be downloaded from the TEAC International Site (https://teac.jp/int/).
- Design and specifications are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations in this manual might differ slightly from production models.

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Warranty provisions (United States and Canada only)

Length of Warranty

The parts and labor warranty will be effective for one (1) year from the date of the original purchase for products not used for commercial purposes. For products used commercially, the warranty is ninety (90) days for magnetic heads and optical pickups, one (1) year for all other parts and ninety (90) days for labor.

Who Is Covered Under This Warranty

This warranty is valid only in the United States or Canada, dependent upon the country in which original purchase was made, and enforceable only by the original purchaser within the country in which the purchase was made.
This warranty is not valid if the product was purchased through an unauthorized dealer.

What Is Not Covered Under This Warranty

- Damage to or deterioration of the external cabinet.
- Damage resulting from accident, misuse, abuse, or neglect.
- Damage resulting from failure to follow instructions contained in the products owners' manual or otherwise provided with the product.
- Damage occurring during shipment of the product (Claims must be presented to the carrier).
- Damage resulting from the repair or attempted repair by anyone other than TEAC or an authorized TEAC service station.
- Damage resulting from modification or attempted modification of product not authorized by TEAC.
- Damage resulting from causes other than product defects, including lack of technical skills, competence, or experience of the user.
- Damage to any unit that has been altered or which the serial number has been defaced, modified or removed.

What TEAC Will Pay For

TEAC will pay all labor and material expenses for items covered by the warranty. Payment of shipping charges is covered in the next section.

How To Obtain Warranty Service

Your unit must be serviced by an authorized TEAC service station within the country in which the product was purchased. If you are unable to locate an authorized service station in your area, please contact TEAC at the applicable address shown at the end of this warranty statement. PLEASE DO NOT RETURN YOUR UNIT TO TEAC WITHOUT OUR PRIOR AUTHORIZATION. You must pay shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered by warranty, we will pay the return shipping charges to any destination within the country in which the product was purchased. Whenever warranty service is required, you must present the original dated sales receipt, or other proof indicating the purchase place and date, as proof of warranty coverage.

LIMITATION OF IMPLIED WARRANTIES

ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

EXCLUSION OF DAMAGES

TEAC'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, AT TEAC'S OPTION. TEAC SHALL NOT BE LIABLE FOR DAMAGE BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, INTERRUPTED OPERATION, COMMERCIAL LOSS OR LOST PROFITS, OR ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR OTHERWISE.
SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.
THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND MAY VARY FROM SOME OF THE RIGHTS PROVIDED BY LAW. THESE RIGHTS MAY VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE.

Conditions de garantie (États-Unis et Canada uniquement)

Durée de la garantie

La garantie pièces et main d'oeuvre sera valable un (1) an à compter de la date d'achat initial des produits non utilisés dans un but commercial. Pour les produits à utilisation commerciale, la garantie des têtes magnétiques et capteurs optiques est de quatre-vingt dix (90) jours, elle est d'un (1) an pour les autres pièces et quatre-vingt dix (90) jours pour la main d'oeuvre.

Bénéficiaire de la garantie

Cette garantie n'est valable qu'aux États-Unis et au Canada, selon le pays d'achat initial, et ne s'applique qu'à l'acquéreur initial dans le pays d'achat. Cette garantie n'est pas valable si le produit a été acheté auprès d'un revendeur non autorisé.

Ce qui n'est pas couvert par cette garantie

- Les dommages ou détériorations du boîtier externe.
- Les dommages résultant d'un accident, d'une mauvaise utilisation, d'un abus ou d'une négligence.
- Les dommages résultant du non-respect des instructions contenues dans le mode d'emploi du produit ou fournies avec le produit.
- Les dommages survenus durant le transport du produit (les réclamations doivent être adressées au transporteur).
- Les dommages résultant d'une réparation ou tentative de réparation effectuée par toute personne extérieure au service après-vente TEAC ou agréé par TEAC.
- Les dommages résultant d'une modification ou tentative de modification de produit non autorisée par TEAC.

- Les dommages résultant de causes autres que des défauts de produit, y compris le manque d'aptitude technique, de compétence ou d'expérience de l'utilisateur.
- Les dommages de toute unité ayant été modifiée ou dont le numéro de série a été effacé, modifié ou retiré.

Frais pris en charge par TEAC

TEAC prendra en charge tous les frais de pièces et main d'oeuvre pour les articles couverts par la garantie. Les frais d'expédition sont évoqués dans la section suivante.

Comment obtenir une intervention sous garantie

Votre unité doit être réparée par un service après-vente agréé par TEAC dans le pays d'achat du produit. Si vous ne trouvez pas de service après-vente agréé dans votre région, veuillez contacter TEAC à l'adresse appropriée donnée à la fin de cette garantie. VEUILLEZ NE PAS RENVOYER VOTRE UNITÉ CHEZ TEAC SANS NOTRE AUTORISATION PRÉALABLE. Si le produit doit être renvoyé pour réparation, les frais d'expédition sont à votre charge. Toutefois, si les réparations nécessaires sont couvertes par la garantie, nous prendrons à notre charge les frais de retour vers toute destination dans le pays d'achat du produit. Lorsqu'une réparation sous garantie est requise, vous devez présenter comme preuve de couverture par la garantie la facture d'achat originale datée ou une autre preuve d'achat mentionnant le lieu et la date d'achat.

LIMITATION DES GARANTIES IMPLICITES

TOUTES LES GARANTIES IMPLICITES, Y COMPRIS LES GARANTIES DE QUALITÉ MARCHANDE ET D'ADÉQUATION À UN USAGE PARTICULIER, SONT LIMITÉES À LA DURÉE DE CETTE GARANTIE.

EXCLUSION DE DOMMAGES

LA RESPONSABILITÉ DE TEAC VIS-À-VIS DE TOUT PRODUIT DÉFECTUEUX EST LIMITÉE À LA RÉPARATION OU AU REMPLACEMENT DU PRODUIT, AU GRÉ DE TEAC. TEAC NE POURRA ÊTRE TENU POUR RESPONSABLE DE QUELCONQUES DOMMAGES SE RAPPORTANT AU DÉRANGEMENT, À LA PERTE D'USAGE DU PRODUIT, À L'INTERRUPTION DE L'UTILISATION, AUX PERTES COMMERCIALES OU DE PROFITS, NI D'AUCUN AUTRE DOMMAGE, QU'IL SOIT ACCESSOIRE, INDIRECT, PUNITIF OU AUTRE.
CERTAINS ÉTATS OU PROVINCES N'AUTORISENT PAS DE LIMITATIONS DE DURÉE D'UNE GARANTIE IMPLICITE ET/OU N'AUTORISENT PAS L'EXCLUSION OU LA LIMITATION DES DOMMAGES ACCESSOIRES OU INDIRECTS, AUQUEL CAS LES LIMITATIONS ET EXCLUSIONS CI-DESSUS PEUVENT NE PAS VOUS ÊTRE APPLICABLES.
CETTE GARANTIE VOUS DONNE DES DROITS SPÉCIFIQUES QUI PEUVENT ÊTRE DIFFÉRENTS DE CERTAINS DROITS OCTROYÉS PAR LA LOI. CES DROITS PEUVENT VARIER D'UN ÉTAT À L'AUTRE OU D'UNE PROVINCE À L'AUTRE.

Europe/Europa

This product is subject to the legal warranty regulations of the country of purchase. In case of a defect or a problem, please contact the dealer where you bought the product.

Ce produit est sujet aux réglementations concernant la garantie légale dans le pays d'achat. En cas de défaut ou de problème, veuillez contacter le revendeur chez qui vous avez acheté le produit.

Las condiciones de garantía de este aparato están sujetas a las disposiciones legales sobre garantía del país en el que ha sido adquirido. En caso de garantía, debe dirigirse al establecimiento donde adquirió el aparato.

In countries/regions other than the USA, Canada and Europe

This warranty gives you specific legal rights, and you may also have other rights that vary by country, state or province.
If you have a warranty claim or request, please contact the dealer where you bought the product.

该保证书赋予了顾客特定的合法权利，并且因国家，州或省等地域的不同，顾客可能拥有其他权利。如需申请或要求保修，请与购买本产品的销售店进行联系。

WARRANTY/GARANTIE (United States and Canada only/États-Unis et Canada uniquement)

Model/Modèle : **UD-701N**

Serial No./N° de série

Owner's address/Adresse du propriétaire

Date of purchase/Date de l'achat

Dealer's name/Nom du détaillant

Owner's name/Nom du propriétaire

Dealer's address/Adresse du détaillant

TEAC

TEAC CORPORATION 1-47 Ochiai, Tama-shi, Tokyo 206-8530, Japan
https://teac.jp/int/

This product has a serial number located on the rear panel. Please write it here and retain this for your records.

Model name: UD-701N Serial number:

0221.MA-3238A