USB D/A CONVERTER

DA-07X

Owner's Manual

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Installation place

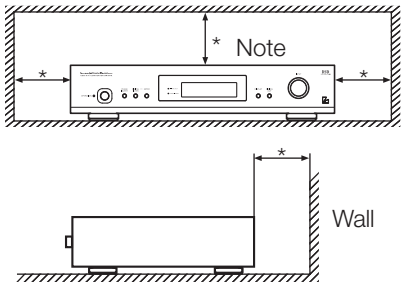
Install this unit in a location where good ventilation and heat radiation are assured.

Especially, the installation of this unit where direct sunlight is present, where the temperature rises excessively high such as close to a heater, or where it is humid or dusty may cause a malfunction even if heat is efficiently released.

Therefore, do not install this unit in such places.

Note:

For heat dispersal, do not install this equipment in a confined space such as a book shelf or similar unit.



- Choose a stable place near the stereo system that is to be used in combination with this unit.
- Do not install this unit near a television or color monitor. Keep this unit away from magnetically sensitive devices such as cassette decks.
- Install this unit on a level surface.

Avoid the following locations for installation.

- Locations exposed to direct sunlight
- Locations subject to humidity and which lack ventilation
- Locations that are extremely hot or cold
- Locations which experience strong vibration
- Dusty locations
- Locations subject to oil, steam, and heat (such as kitchens)

Avoid sources of heat

Do not place this unit on such device as an amplifier that may emit heat.

If the unit is installed on a rack, install the unit as distantly as possible from where the amplifier is installed so as to avoid heat emission from the amplifier and other audio devices.

Turn off this unit when it is not used.

Depending on the condition of radio waves emitted during television broadcasting, interference fringes may appear on the television monitor, but that is not a malfunction. In such a case, turn off the unit. There may also be a case where noises are heard on the radio due to radio wave interference.

Notice when handling optical digital cables

- Do not fold the cables. For storage, wind each cable into a coil about 15 cm in diameter or larger.
- For connection, insert the cable connectors firmly into the terminals of this unit and the other device.
- Only use 3 meter long cables or shorter.
- When the cable connectors get dusty, wipe the dust away with a dry soft cloth before inserting into the terminals.

Cleaning

- Usually, wipe the unit with a dry soft cloth.
  When the dirt is hard to remove, dip soft cloth in detergent diluted 5 or 6 times with water, wring it well, and remove contaminants. Then, remove the moisture with dry cloth.
- Do not use a solvent like alcohol, benzine, thinner, or pesticide because such a substance can damage the exterior. In addition, do not let this unit contact a rubber or plastic form for a long time. That may damage the cabinet surface of the unit.
- When using a chemical cloth for cleaning, read the caution provided with the chemical cloth product.
- Before cleaning, unplug the power cord from the AC outlet.

Precautions in connecting with other components

When connecting this unit with an I/O equipment other than PC/Mac such as CD player and DVD player, be sure to turn off the power switches of this unit and all other connected units. Failure to observe this may generate a strong noise resulting in speaker damage or cause a malfunction.

The pin-plug to be inserted in each input terminal of this unit shall be pushed in firmly. If the grounding terminal is inadequately connected, noises including hum may be generated, resulting in an adverse S/N ratio.

Repair and adjustment

When repairs or adjustments are needed, please ask the dealer where you bought the unit.

Safety caution

Warning

This unit is heavy. Be careful when unpacking, carrying, and installing it.

Features Of This Unit

Analog circuitry

This unit has an independent monaural operational D/A converter on the right and left sides. Then, the high-quality discrete buffer circuit with fully balanced configuration reduces the impedance in the differential output of these converters.
This circuit drives the integrated amplifier and control amplifier that are connected to the next stage in a powerful manner.

BD34301EKV manufactured by ROHM Co., Ltd. equipped

This unit features ROHM's BD34301EKV DAC chips in independent left and right dual monaural configuration.

USB input 768 kHz/32-bit supported

The B-type USB input terminal makes it possible to input USB digital audio signals from a PC or Mac, and is supported for a sampling frequency of up to 768 kHz and 32-bit quantization.

USB input supports DSD

DSD formatted data can be read from PC or Mac, or the like.
Sampling frequencies of 2.8 MHz/5.6 MHz/11.2 MHz/ 22.5 MHz are supported.

DD converter function

Signals encoded at 192 kHz/24 bit or less, including USB input, are digitally reproduced over S/PDIF.

Asynchronous communication supported

The USB input's low jitter characteristics have been achieved by a dedicated DSP chip using asynchronous communication and PLL.
When using a PC/Mac, the user can select between normal isochronous transmission and Bulk Pet transmission, which levels the transmission load and achieves high sound quality, by using the dedicated driver software.

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 www.mqa.co.uk for further information.
This unit includes MQA technology, which enables you to play back MQA audio files and streams from all digital inputs, delivering the sound of the original master recording. The built-in MQA decoder will automatically restore the high-resolution signal heard in the studio and confirm it, using the authentication signature.

Ultra-low phase noise crystal oscillator

This unit uses an extremely low noise oscillator with very low phase near the oscillating frequency.
This oscillator provides accurate clocking with less jitter.

High-definition organic EL display

A large and high-definition organic EL display is provided for easy viewing of the selected input, the format being played back, and the sampling frequency.

Dimmer function

The brightness of the organic EL display can be adjusted with 4 brightness levels.

Analog output terminals

Equipped with 22 mm pitch gold plating RCA output terminals supported for connection of large plugs and Neutrik XLR terminals.

Digital input terminals

This unit is equipped with two coaxial input terminal, two optical input terminals and one balanced input terminal.

It is compatible with S/PDIF formatted signals between 44.1 kHz and 192 kHz.

Digital audio signals from other audio devices are played back with significantly improved audio quality.

Low jitter digital inputs (S/PDIF) have been achieved by using TI's PCM9211 PLL chips.

Last memory function

Built-in flash memory can memorize settings such as digital filters, analog output polarity, etc.

Digital output OFF

The digital audio output can be deactivated to improve the quality of the analog audio output.

Analog output phase switching

Both balanced output and unbalanced output are phase switchable.

Cast-iron insulators

For stability and support, this product features cast iron feet with vibration reducing density gradient.

Highly stable power supply

The unit's highly stable (high inertia) power supply circuitry features an OI-core-type power transformer with 2 custom designed 10,000 µF blocking capacitors.

Original technologies

Our traditional, non-angled circuitry, OFC internal wiring, and original custom-made components are used throughout the unit.

***1 Mac and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries.**

***2 Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.**

***3 DSD is a trademark.**

***4 Sound Wave Logo is a registered trademark of MQA Limited.©2018**

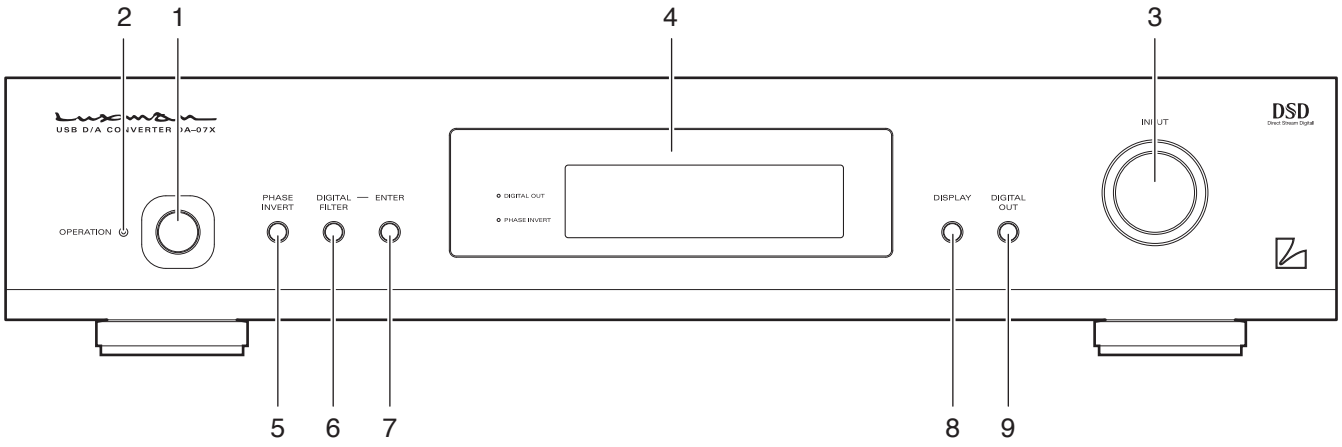
***5 MQA is a registered trademark of MQA Limited.©2018**

***6 Bulk Pet is a registered trademark of INTERFACE Co., LTD.**

***7 The described company names and product names are the trademarks or registered trademarks of each company.**

Names and Functions

Front panel



1. Operation button (OPERATION)

Toggles the power on and off.

When wiring or connection is performed, be sure to turn off this button.

2. Operation indicator (OPERATION)

Blinks during mute mode when the operation button is turned on and lights up when the operation state is reached after a short time.

3. Input selector (INPUT)

Selects an input device connected to each input terminal of this device.

When turned to the right, it changes from USB → COAX-1 → COAX-2 → OPT-1 → OPT-2 → AES/EBU → USB....

When turned to the left, it changes from USB → AES/EBU → OPT-2 → OPT-1 → COAX-2 → COAX-1 → USB....

4. Display window

Displays the operation status of this unit.

This display is composed of 2 indicators and organic EL display.

5. Analog output phase selection button (PHASE INVERT)

Use this button to invert the phase of the analog outputs on the rear panel.

Both the balanced output and unbalanced output are inverted.

This setting is stored on the flash memory even when the power is turned off.

Every time this button is pressed, the phase changes as follows: NORMAL → INVERT → NORMAL → INVERT …

[Phase Normal]

1. GROUND
2. COLD (–)
3. HOT (+)

[Phase Inverted]

1. GROUND
2. HOT (+)
3. COLD (–)

6. Digital filter selection button (DIGITAL FILTER)

This button is used to switch between the digital FIR filter for PCM playback and the filter for DSD playback.

* When MQA decoding is on, the PCM digital FIR filter is a dedicated setting and cannot be switched.
* Press and hold for about 3 seconds to display the current MQA decoding setting (ON: ENABLED, OFF: BYPASSED).

Pressing this button again while the filter selection is displayed displays the next filter selection.

Pressing the enter button (ENTER) while the setting data is displayed confirms the filter setting.

[When MQA decoder ON]

Pressing the button displays the current setting data (D-1 or D-2) of DSD filter on the display window.

Pressing this button again while the filter selection is displayed displays the next filter selection.

Pressing the enter button (ENTER) while the setting data is displayed confirms the filter setting.

If the enter button (ENTER) is not pressed, the filter will not be engaged.

[When MQA decoder OFF]

Pressing the button displays the data (PCM FILTER) on the display window.

Pressing the button again while the display window is displayed, displays the data (DSD FILTER).

Pressing the enter button (ENTER) while the setting data is displayed, displays the current setting data (P-1, P-2/D-1, D-2) of the PCM/DSD filter.

Pressing the button again (DIGITAL FILTER) while the setting data is displayed, displays the following data.

Pressing the enter button (ENTER) while the setting data is displayed confirms the filter setting.

If the enter button (ENTER) is not pressed, the filter will not be engaged.

7. Enter button (ENTER)

This button is used to confirm the setting data of the digital filter selection (DIGITAL FILTER).

8. Display button (DISPLAY)

This button adjusts the brightness of the organic EL display. The brightness can be adjusted in 4 steps from off, through two dim levels, to normal. Each time the dimmer button is pressed, the display changes as follows.

Normal light (HI) → Dim (L01) → Very dim (L02) → No light (OFF) → Normal light (HI).....

This setting is stored on the flash memory even when the power is turned off.

Press and hold for about 3 seconds to turn on a function that automatically adjust the display brightness to be dimmer.

Every time this button is pressed, the phase changes as follows: ON → OFF → ON .....

[DISPLAY AUTO BRIGHT OFF]

The display is always shown as Normal light (HI).

[DISPLAY AUTO BRIGHT ON]

After 15 minutes of no switch operation, the brightness is adjusted to the same brightness as Very dim (L02).

This setting is stored on the flash memory even when the power is turned off.

Factory default: OFF

9. Digital output selection button (DIGITAL OUT)

Turns on/off the digital output (COAX/OPT).

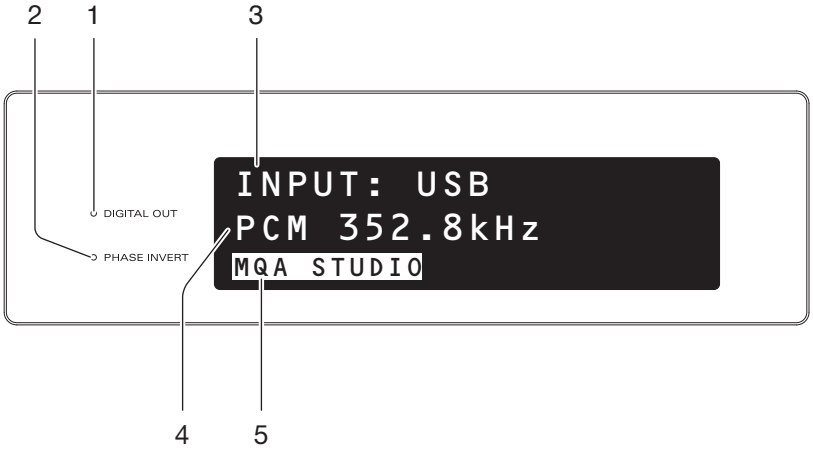
This setting is stored on the flash memory even when the power is turned off.

When a DSD file is reproduced, a digital audio output cannot be outputted.

When PCM data of 352.8kHz, 384kHz, 705.6kHz or 768kHz sampling frequency is played back, digital audio output is not available.

Names and Functions

Display window



1. Digital output indicator (DIGITAL OUT)

Lights up when the digital audio output is ON.

When a DSD file is reproduced, a digital audio output cannot be outputted.

When PCM data of 352.8kHz, 384kHz, 705.6kHz or 768kHz sampling frequency is played back, digital audio output is not available.

2. Phase invert indicator (PHASE INVERT)

Lights up when the analog output phase is inverted, which is caused by pressing the phase invert button.

[Off (Phase Normal)]

1. GROUND
2. COLD (–)
3. HOT (+)

[On (Phase Inverted)]

1. GROUND
2. HOT (+)
3. COLD (–)

3. Input display (INPUT:)

Displays the input terminal selected using the input selector.

4. Display of playback format mode

Displays operating status such as format (PCM/DSD) and sampling frequency during playback.

5. MQA Display

Displayed while an MQA file or stream is being played back.

[NO Display]

It is not an MQA source

[MQA]

It is indicating that the unit 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 STUDIO]

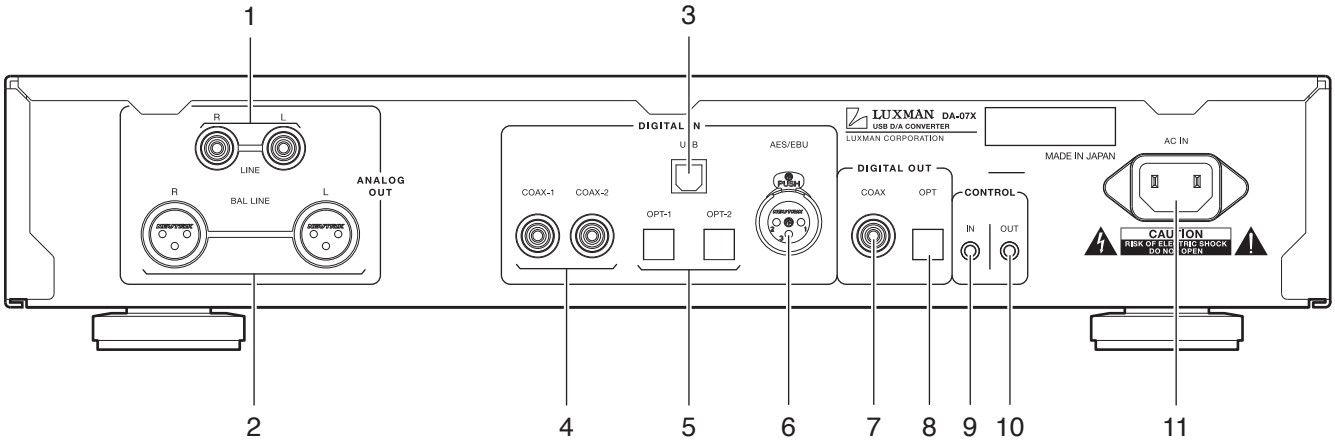
It is indicating the unit is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

[OFS]

It confirms that the product is receiving an MQA stream or file.

This delivers the final unfold of the MQA file and displays the original sample rate.

Rear panel



1. Unbalanced analog output terminals/ ANALOG OUT (LINE)

The RCA output terminals to provide unbalanced playback signals of this unit

Connect these terminals to the unbalanced input of a device such as a pre-amplifier with an RCA cable.

The output phase can be switched with the analog output phase selection button (PHASE INVERT) on the front panel.

2. Balanced analog output terminals/ ANALOG OUT (BAL LINE)

Use these XLR output terminals to output balanced audio signals from this unit.

Connect these terminals to the balanced inputs of a unit such as a preamplifier using balanced XLR cables.

The output phase can be switched with the analog output phase selection button (PHASE INVERT) on the front panel.

The following table shows the unit's XLR output terminals pin configuration:

[Phase Normal]

1. GROUND
2. COLD (–)
3. HOT (+)

[Phase Inverted]

1. GROUND
2. HOT (+)
3. COLD (–)

3. USB digital input terminal/DIGITAL IN (USB)

Use this USB (B-type) input terminal digital input signals from a PC or Mac using a USB cable.

The terminal supports the following signals.

· PCM signal

Sampling frequency: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz, 705.6 kHz, 768 kHz

Quantization bit rate: 16-bit, 24-bit, 32-bit

· DSD signal

Sampling frequency: 2.8 MHz, 5.6 MHz, 11.2 MHz, 22.5 MHz

Quantization bit rate: 1-bit

Before connecting this unit to a PC using Windows OS, the dedicated driver software needs to be downloaded from LUXMAN website and installed.

Refer to "Driver Installation Manual" on the LUXMAN website for detailed information.

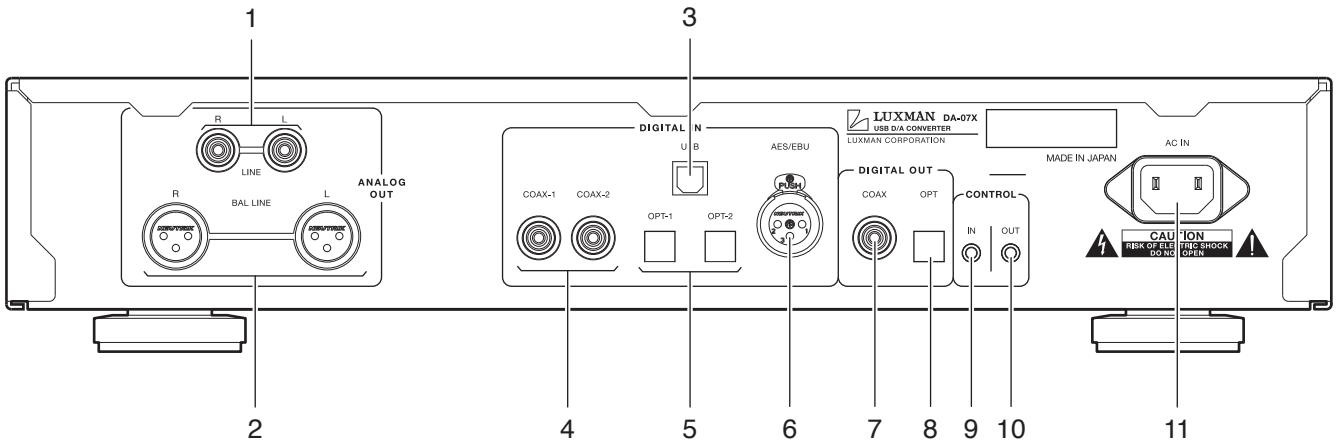
With Mac OS, this unit is automatically recognized.

Caution:

Connection between a PC and this unit using a USB cable should not be performed before the installation of the dedicated driver software is completed. Failure to observe this may cause a malfunction.

Names and Functions

Rear panel



4. Coaxial digital input terminals/ DIGITAL IN (COAX-1, COAX-2)

Connect digital signals from a CD player or the like that has a digital output terminal to this unit using a coaxial digital cable.

The terminal supports the following PCM signals.

Sampling frequency: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz

Quantization bit rate: 16-bit, 20-bit, 24-bit

5. Optical digital input terminals/ DIGITALIN (OPT-1, OPT-2)

Connect digital signals from a CD player or the like that has a digital output terminal to this unit using an optical digital cable.

The terminal supports the following PCM signals.

Sampling frequency: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz

Quantization bit rate: 16-bit, 20-bit, 24-bit

This is a shutter-type optical terminal. Direct the cable connector correctly when inserting the cable into the terminal. If the cable connector is inserted forcibly in the wrong direction, the terminal may be deformed and the shutter may not be able to close even after disconnecting the cable.

6. Balanced digital input terminal/ DIGITAL IN (AES/EBU)

Connect digital signals from a CD player or the like that has a digital output terminal to this unit using a balanced digital cable.

The terminal supports the following PCM signals.

Sampling frequency: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz

Quantization bit rate: 16Bit, 20bit, 24bit

7. Coaxial digital output terminal/ DIGITAL OUT (COAX)

This terminal is connected to an amplifier that has a digital input terminal using a coaxial digital cable.

The digital input signal that is selected with the input selector, is output. The sampling frequency and quantization bit rate of the output digital signal shall remain the same as the input signal.

When a DSD file is reproduced, a digital audio output cannot be output.

In addition, when PCM data of 352.8 kHz, 384 kHz, 705.6 kHz or 768 kHz sampling frequency is played back, digital audio output is not available.

8. Optical digital output terminal/ DIGITAL OUT (OPT)

Connect this terminal to a device such as a D/A converter or an amplifier that has a digital input terminal using an optical digital cable.

The digital input signal that is selected with the input selector, is output.

The sampling frequency and quantization bit rate of the output digital signal shall remain the same as the input signal.

When a DSD file is reproduced, a digital audio output cannot be output.

In addition, when PCM data of 352.8 kHz, 384 kHz, 705.6 kHz or 768 kHz sampling frequency is played back, digital audio output is not available.

This is a shutter-type optical terminal. Direct the cable connector correctly when inserting the cable into the terminal. If the cable connector is inserted forcibly in the wrong direction, the terminal may be deformed and the shutter may not be able to close even after disconnecting the cable.

9. Control input terminal (CONTROL IN)

Connects a LUXMAN's device with a control output terminal using a commercially available 3.5 mm monaural mini-jack cable.

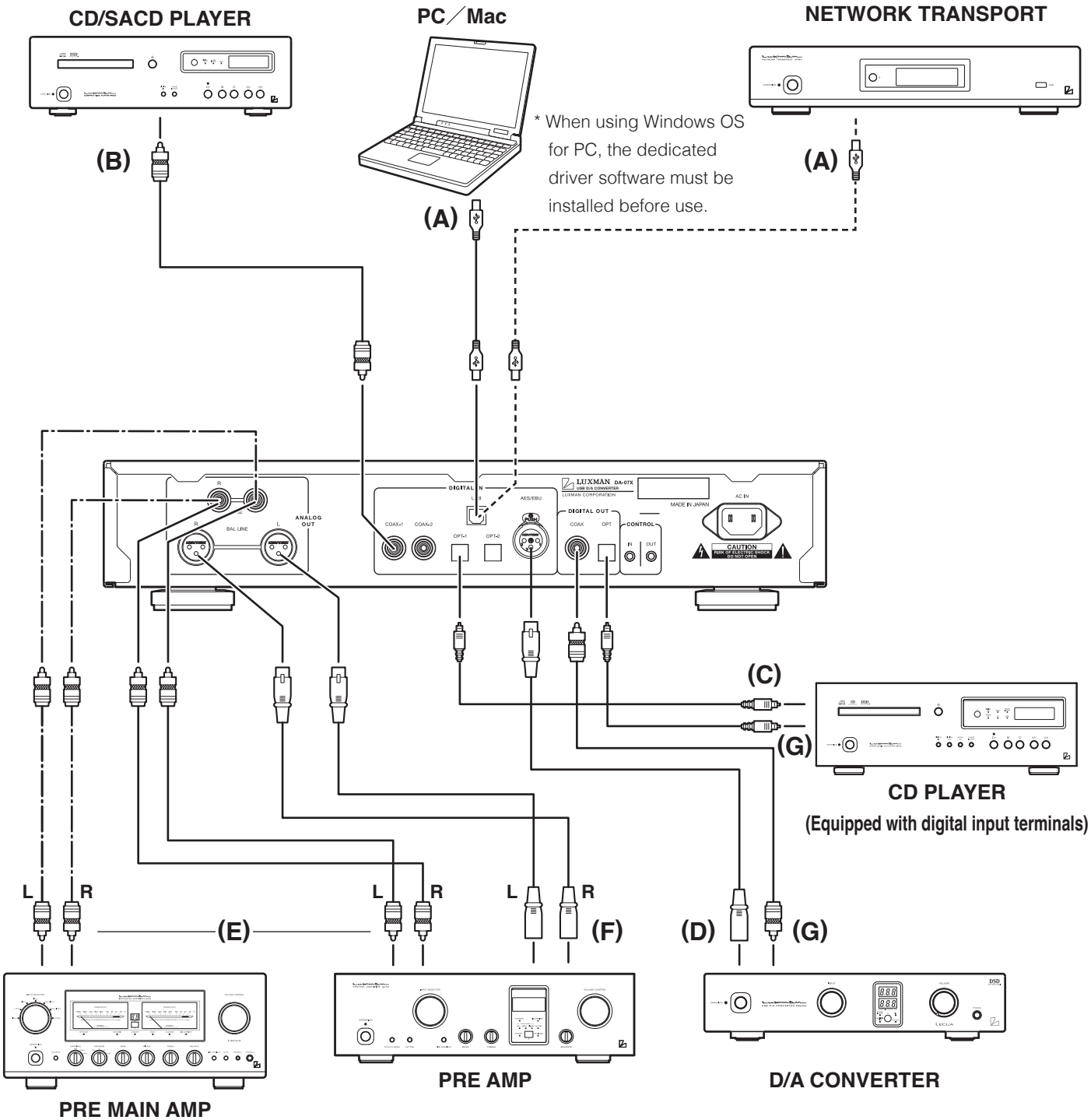
10. Control output terminal (CONTROL OUT)

Signals from other devices connected to the control input terminals of this unit are output.

11. AC inlet (AC IN)

Connect the accessory power cable here to supply power from the AC outlet on the wall.

Connections



Before Connecting

Before connecting other devices, connect the jack side of the accessory power cable to the AC inlet of this unit.

When connecting, turn off the power supply for this unit and the power supplies of all auxiliary devices to prevent unexpected accidents that may be caused by noise.

Connecting to the power supply

Insert the accessory power supply cable plug into an AC outlet on the wall of the listening room.

Connections

How to connect input devices

1. Digital connection from a PC/Mac/ Network transport (Refer to the connection diagram (A).)

Connect between the USB (A-type) terminal of the PC/Mac/ Network transport and the USB (B-type) terminal of this unit with a USB cable.

Before connecting this unit to a PC using Windows OS, the dedicated driver software needs to be downloaded from LUXMAN website and installed.

Refer to "Driver Installation Manual" on the LUXMAN web-site for detailed information.

With Mac OS, this unit is automatically recognized.

Caution:

Connection between a PC and this unit using a USB cable should not be performed before the installation of the dedicated driver software is completed. Failure to observe this may cause a malfunction.

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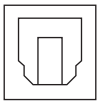
2. Digital connection from such device as a CD player (Refer to the connection diagrams (B), (C) and (D).)

Connect between the digital output terminal (coaxial, optical or balanced digital output terminal) of a CD player, an SACD player, a D/A converter or other such devices and the digital input terminal (COAX/OPT, or AES/EBU) of this unit with a coaxial, optical or balanced digital cable.

This is a shutter-type optical terminal.

Direct the cable connector correctly when inserting the cable into the terminal. If the cable connector is inserted forcibly in the wrong direction, the terminal may be deformed and the shutter may not be able to close even after disconnecting the cable.

Upper side



Lower side

The optical terminals are directed as illustrated.

How to connect output devices

1. Unbalanced connection with a device such as an integrated amplifier (Refer to connection diagram (E).)

Connect between the analog unbalanced output terminals (LINE) of this unit and the unbalanced input terminals of a device such as an integrated amplifier with 2 (L/R) RCA pin-plug cables.

2. Balanced connection with a device such as a pre-amplifier (Refer to connection diagram (F).)

Connect between the balanced analog output terminals (BAL LINE) of this unit and the balanced input terminals of a device such as an integrated amplifier with two balanced XLR cables (L/R).

3. Digital output to a device such as another D/A converter (Refer to the connection diagram (G).)

Connect between the digital output terminal (COAX/OPT) of this unit and a device such as a D/A converter or a unit equipped with digital input terminals with a coaxial digital cable or an optical digital cable.

This unit is a D/A converter. All music playback operations are performed by input devices such as a PC/Mac/Network transport or CD player connected to the input terminals.

Before operation

1. Ensure that all connections have been correctly performed. (Normal playback cannot be achieved with incorrect connections of R or L.)
2. Push the operation button to turn ON the power.

Music playback from devices connected to digital input (analog output)

1. Select a input device with the input selector buttons. (OPT/ USB/ COAX/ AES/EBU)
2. When the input device is set to playback status, the sampling frequency of the playback signal is displayed.

If the digital signal input to the unit is not normal, (UNLOCK) is displayed and no signal is output.

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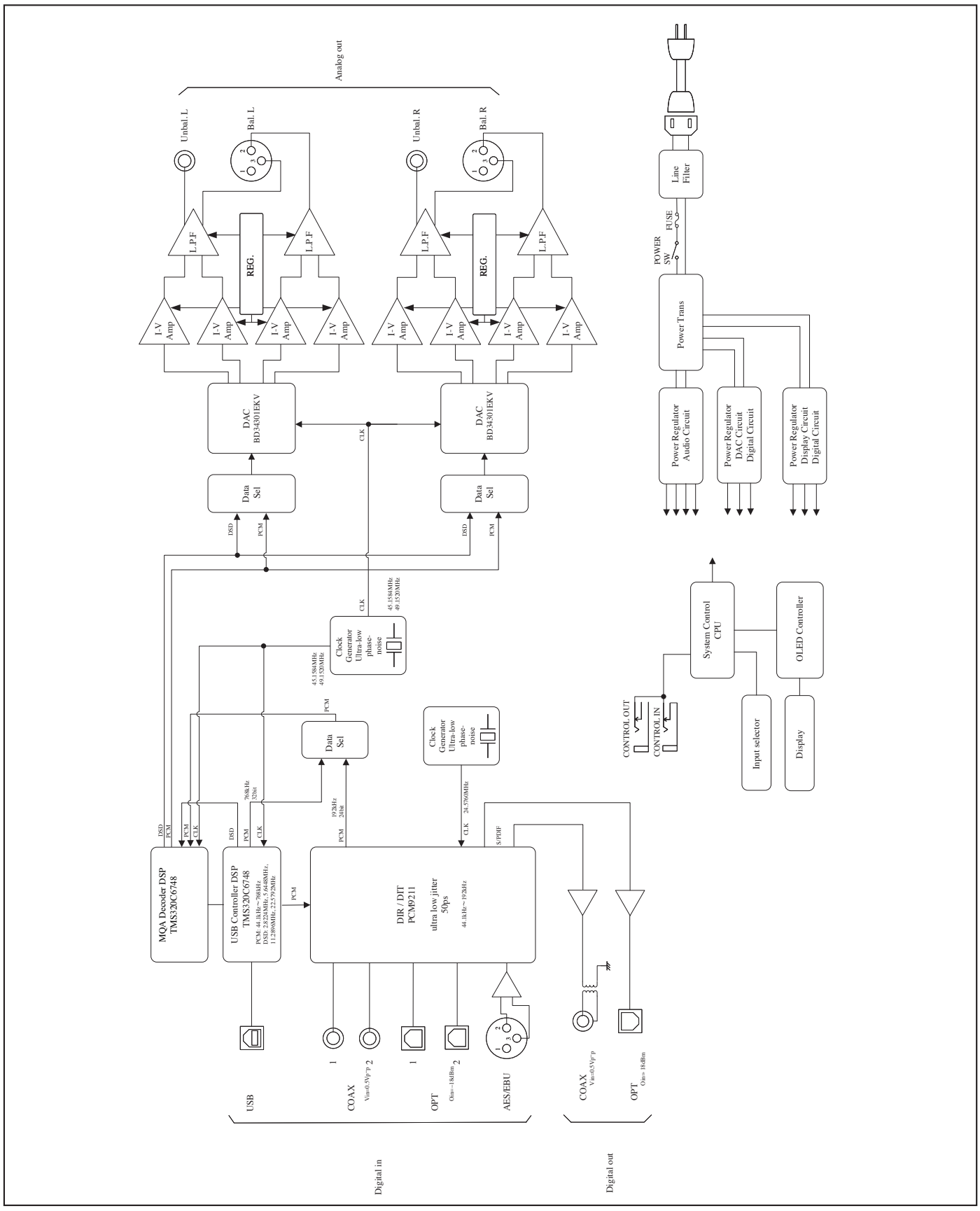
3. When a pre-main amplifier or other device is connected to the unbalanced analog output terminals (LINE), or when a pre amplifier or other device is connected to the balanced analog output terminal (BAL LINE), use the output device's volume control on the output device to adjust the volume.

How to use the digital output

Playback signals from digital devices input to this unit can be output again from the digital output terminal to other D/A converters or CD players with digital input terminals.
(CD players not equipped with a USB input terminal can receive digital signals from the USB input terminal of this unit through the OPT/COAX input terminal by connecting this unit.)

1. Select a input device with the input selector buttons. (OPT/USB/COAX/AES/EBU)
2. Adjust the volume level with the volume control of the system being connected.

Block Diagram



Specifications

Format		2 channel USB equipped D/A converter
Ambient operating temperature		+5 ˚C to +35 ˚C
Audio output characteristics	**Output voltage / output impedance:**	UNBALANCE terminal (RCA terminal) 2.4 Vrms/300 Ω BALANCE terminal (XLR terminal) 2.4 Vrms/600 Ω 2.3 Vrms for DSD
	Frequency response:	5 Hz to 20 kHz (+0, –0.4 dB) 5 Hz to 47 kHz (+0, –3.0 dB)
	Total harmonic distortion:	0.001 %/Unbalanced 0.001 %/Balanced
	S/N ratio:	124 dB
	Dynamic range:	121 dB
	Channel separation:	119 dB
Digital input	**Coaxial digital input:**	0.2 to 2.5 Vp-p
	AES/EBU digital input:	0.2 to 10 Vp-p
	Optical digital input:	–14.5 to –21 dBm
	USB input: (supported OS)	Microsoft Windows 10 or later, Mac OS X10.15 or later
	Sampling frequency:	OPT/COAX/AES/EBU input: : 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz (16 bit, 20 bit, 24 bit) USB input : 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz, 384 kHz 706.5 kHz, 768 kHz (16 bit, 24 bit, 32 bit), 2.8 MHz, 5.6 MHz, 11.2 Mhz, 22.5 MHz (1 bit)
Digital output	**Coaxial digital output:**	RCA terminal 0.5 Vp-p/75Ω
	Optical digital output:	Optical digital terminal –15 to –21 dBm
Supplied functions	**Front panel**	• Operation switch • Enter switch • Display switch • Input selector • Phase switching button • Digital output selection button • Digital filter selection button
	Rear panel	• AC inlet • Digital input terminal (USB, COAX, OPT, AES/EBU) • Digital output terminal (COAX, OPT) • Analog output terminals (BALANCE, UNBALANCE)
Accessories		• Owner's Manual • Safety cautions
Power supply		230 V ~ (50 Hz)
Power consumption		21 W
Weight		12.8 kg (main unit)
Dimensions		440 (W) × 92 (H) × 402 (D) mm (front side knob of 14 mm and rear side terminal of 8 mm included in depth)

* Specifications and appearance are subject to change without notice.

Before Asking for Repair

While the unit is used, an unusual phenomenon may be confused as a malfunction for a certain reason. Prior to asking us for repair services, please check the table below and read the instruction manual for the subsidiary devices. If the cause of malfunction cannot be identified, please make queries to the purchasing store. When we have once accepted your request for repair services, inspection fees and traveling expenses may be claimed even though the unit is found to be normal.
Besides, such personal computer as a PC/Mac connected to the unit and the software that operates on the PC/Mac (operations and settings included) are not supported.

Problem	Cause/Solution	Ref. page
No power is supplied even though the operation button is pressed ON.	· Connect the power cable to the AC inlet (AC IN) and the AC outlet firmly.	11
No sound is generated. / Sound volume is too low.	· Connect the input devices, amplifier, and speakers correctly.	10 - 12
	· Set the input selector to the source to be reproduced.	13
	· When you are listening to the sound of a line output (unbalanced) or a balanced output, adjust the sound volume with the volume control of the connected amplifier.	13
No sound is generated. / Sound volume is too low. (Digital input)	· Connect digital cables correctly.	10 - 12
	· If the USB is selected as an input source, select this unit (DA-07X) as the output destination by configuring the sound setting of a PC/Mac.	Refer to the instruction manual of the PC/Mac or the software in use.
	· If the unit (DA-07X) cannot be selected even when trying the solution above, reconnect the USB cable.	
	· If the USB is selected as an input source, adjust the sound volume by configuring the sound setting of a PC/Mac.	
	· If the USB is selected as an input source, adjust the sound volume on a player software of a PC/Mac.	
	· Ensure that the sampling frequency and the number of quantization bits of the reproduced digital signal are applicable to this unit.	8 - 9
	· Check to see whether digital input "UNLOCK" is displayed or not. (When a digital signal from a digital device is not synchronized with this unit, the source may not be played back.)	7
Humming sound (boon or zzz noise) is generated.	· Insert the RCA line cable in the RCA inlet and wall outlet firmly.	10
	· If induction noise is picked up from a power transformer of another device, install the machines apart from each other.	
	· If listening with headphones, the headphone cable and power cable shall be placed away from each other so that they are not too close together.	

This unit may not work normally when the unit is subject to external influence such as static electricity.
In such a case, normal operation may resume by turning off the power once and turning on the power again after several tens of seconds.
If the problem is not solved, please contact your dealer or our service center.



LUXMAN CORPORATION

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