

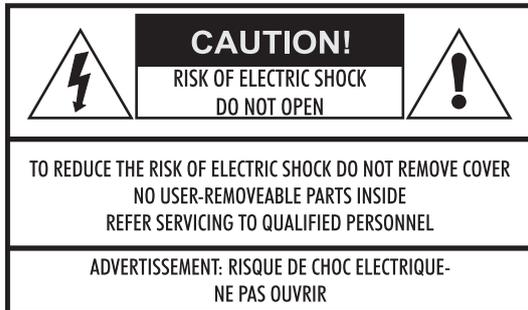
LUXMAN

HEADPHONE AMPLIFIER

P-10

Owner's Manual

Safety Caution



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

WARNING: To reduce the risk of electric shock, do not remove cover (back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.

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

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) than produce heat.

Do not defeat the safety purpose of the polarised or grounding plug. A polarised plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong.

The wide blade or the third prong is provided for your safety. If the provided plug does not fit into you outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Only use attachments/accessories specified by the manufacturer.



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Unplug the apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified 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 exposed to rain or moisture, does not operate normally, or has been dropped.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

WARNING: The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.

WARNING: The mains plug/appliance coupler is used as disconnect device shall remain readily operable.



This label tells you that the unit contains a laser component. Opening the unit will expose the user to radiation from the laser beam.



This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.



Correct disposal of this products. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for enviromentally safe recycling.

Contents



Thank you for using LUXMAN Headphone Amplifier P-10.

Luxman was created in 1925 when radio broadcasting started in Japan and has long offered its great acoustics to the audio world. Luxman has been highly rated both at home and abroad as an excellent brand for high quality audio products. Since that time, we have been offering various items to audio fans and music fans over 80 years. The heart of audio and music fans has never changed and always stays the same for all time.

We believe the biggest value we feel when converting artists' enthusiasm into audio is the feeling of impressiveness and our focus on the device. We appreciate the fact that you chose Luxman and enabling yourself to share interest and value towards audio and music.

In order to use this device safely, please read this owner's manual before using it. By doing so, you can Play music in the highest quality utilizing full function of this device. After reading, please keep it with the warranty and the safety instruction.

Appreciate if this device serves your needs for a long period of time.

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Precautions

Installation place

This unit should be installed in a well-ventilated place to allow for easing air circulation. Do not install this unit at a place where it would come under direct sunlight or where the high temperatures are expected like close to a heater. Keep the unit away from places where humidity level is high or excessive dust is present, this may cause malfunction of the unit.

Cautions in connecting input components

When connecting this product to a source like a CD player, be sure to turn off this device and the connecting source. Failure to observe this may generate a pop noise resulting in headphone damage or temporary malfunction.

Make sure to insert the plug-pin firmly in the each input terminal of this product, failure to do so will give rise to inadequate grounding resulting in distorted output signals with a high signal to noise ratio.

Protection circuit

This product is equipped with a protection circuit that guards against over-current, abnormally high temperatures and DC drift. When the protection circuit is activated, the output to the headphone is terminated and the operation light blinks to indicate the status of the product to be in mute mode. In this scenario you should switch off the unit and wait for 10 minutes before within it back on. If the conditions persists, please consult your dealer, your unit may require servicing.

Switch on delay

This amplifier is equipped with a mute circuit which is activated for a short period of time at switch on. Therefore, no sound is generated shortly after the power supply is turned on. Please be patient and do not increase the volume during this period as this will suddenly generate a highly amplified sound. It is advised that the volume control be set to a low level at first and adjusted once you hear the sound from your headphones.

Repair and adjustment

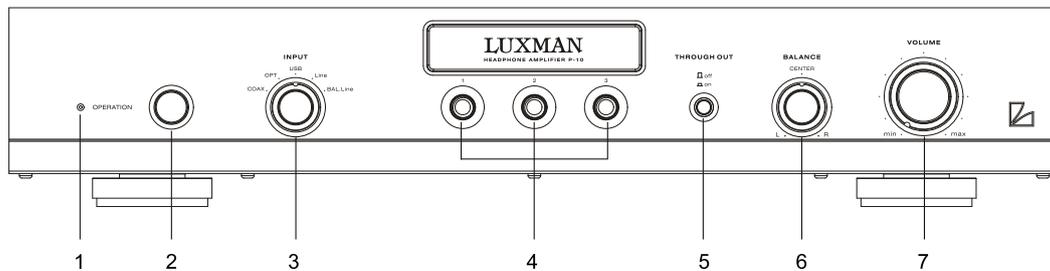
There are no user serviceable parts inside the unit, please do not attempt to open it yourself, doing so will void your warranty. When repairs or adjustments are needed, please consult your dealer or the authorised local distributor.

Cleaning

The amplifier should only ever be cleaned with a soft dry cloth to remove finger marks, etc.. Do not use a solvent like benzene or thinner because such a substance can often damage the exterior.

Names and Functions

Front panel



1. Operation indicator (OPERATION)

This blue colour LED lights up in when the unit is switched on; it blinks when the protection circuit is activated.

2. Power switch

The power switch toggles between on and off.

3. Input (INPUT)

The input selector can switch between five source input - coaxial, optical, USB, line and balanced line

4. Headphones jack

Three sets of headphones (8 ohms or above) can be used.

5. Through out on/off switch (THROUGH OUT)

Line input signal pass through to line out in the rear panel, for connected to other amplifier or sources.

6. Balance (BALANCE)

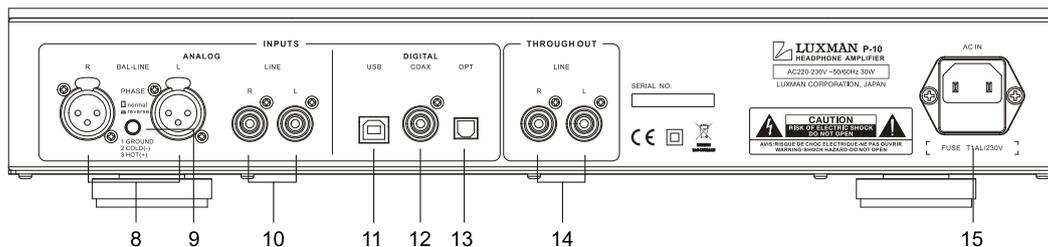
Adjusts the balance of sound between right and left channels.

7. Volume control (VOLUME)

Adjusts to the desired sound level.

Names and Functions

Rear panel



8. XLR Input Terminals

Input connection for balanced line signals, mates with an XLR male cable.

9. Phase Inverter (PHASE)

Changes the phase when the balance input terminals are used. The phase should correspond to the phase of the input device.

normal position ① GROUND

② COLD

③ HOT

invert position ① GROUND

② HOT

③ COLD

10. Line input terminals (LINE)

Line input terminals for RCA connectors.

11. USB digital input terminals (USB)

USB input terminals for PC or MAC.

Supports input sampling frequencies of 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, and 192 kHz

Note: Windows does not support 192 kHz sampling frequency. Owners of computers (Windows) are required to install the corresponding software provided in the accompanying CD-ROM. Simply follow the software installation instructions contained.

12. Coaxial input terminals (COAX)

Coaxial input terminals for COAX connector. Supports input sampling frequencies of 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, and 192 kHz.

13. Optical input terminals (OPT)

Optical input terminals for optical connector.

Support the input sampling frequencies of 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, and 192 kHz

14. Through out output terminal (THROUGH OUT)

Line input signal pass through line output, for connection to other amplifiers or sources.

15. AC inlet (AC IN)

Connect the accessory power cable. The power should be obtained from a 230V AC outlet.

Using the USB Source



LUXMAN CORPORATION, JAPAN

With the increased popularity of computers as source, this P-10 USB D/A Converter allows consumers to enjoy listening to digital music sources from a computer (Windows or Mac) via USB connection. This product is USB 1.1 and 2.0 compliant. This device supports sampling frequencies ranging from 32kHz to 192kHz and incorporates a high quality digital-to-analogue converter (DAC). It can also serve as an USB interface simply to convert the data of music files from your computer to SPDIF signal for use with outboard DAC's.

As a digital-to-analogue converter

1. When switched on, all the LEDs on the front panel will flash for less than a second. This unit enters standby mode when switched on and the power LED glows red. It turns white in operation mode.
2. Connect your computer and P-10 USB D/A Converter via USB link. The factory default 48kHz input sampling frequency will glow white.
3. Connect the audio output terminals to the RCA unbalanced input sockets of your pre-amplifier or integrated amplifier using high quality, screened audio cables.
4. With the computer in operation the P-10 USB D/A Converter will detect and lock onto input data and the USB input indicator LED glows red. Meanwhile, the source sampling frequency indicator LED glows white. To indicate a sampling frequency of 176.4kHz, the 44.1kHz and 88.2kHz LEDs will glow.

Similarly, to indicate sampling frequency of 192kHz, the 48kHz and the 96kHz LEDs will glow.

Note: Windows does not support 192kHz sampling frequency. Owners of computers (Windows) are required to install corresponding software provided in the accompanying CD-ROM. Simply follow the software installation instructions contained.

As a USB interface

1. Connect the coaxial or Toslink optical digital output on the P-10 USB D/A Converter to a corresponding digital receiver on your DAC as illustrated below.
2. Your DAC or CD player with digital inputs will lock onto the input data. The display screen will then indicate the presence of a digital signal and show the output sampling frequency of the music file in your computer.

Software Installation Instruction

Setup of Operating System

1. Mac OS X
2. Windows 7 / Vista / XP
3. Recommendations

All Operating Systems

Please note that your screen display may vary depending on the operating system.

System Requirements:

Intel Core 2 @ 1.6GHz or similar AMD processor

1GB RAM

USB 2.0 Interface

Microsoft Windows Vista 32/64 Bit incl. SP2 | Windows 7 32/64Bit | Windows XP SP3 (not recommended)

Apple MAC OS from 10.6.4

Mac OS X Installation from 10.6.4

The driver will be installed automatically when USB-device is connected for the first time. No third party driver is required.

Mac OS X System Setup from 10.6.4

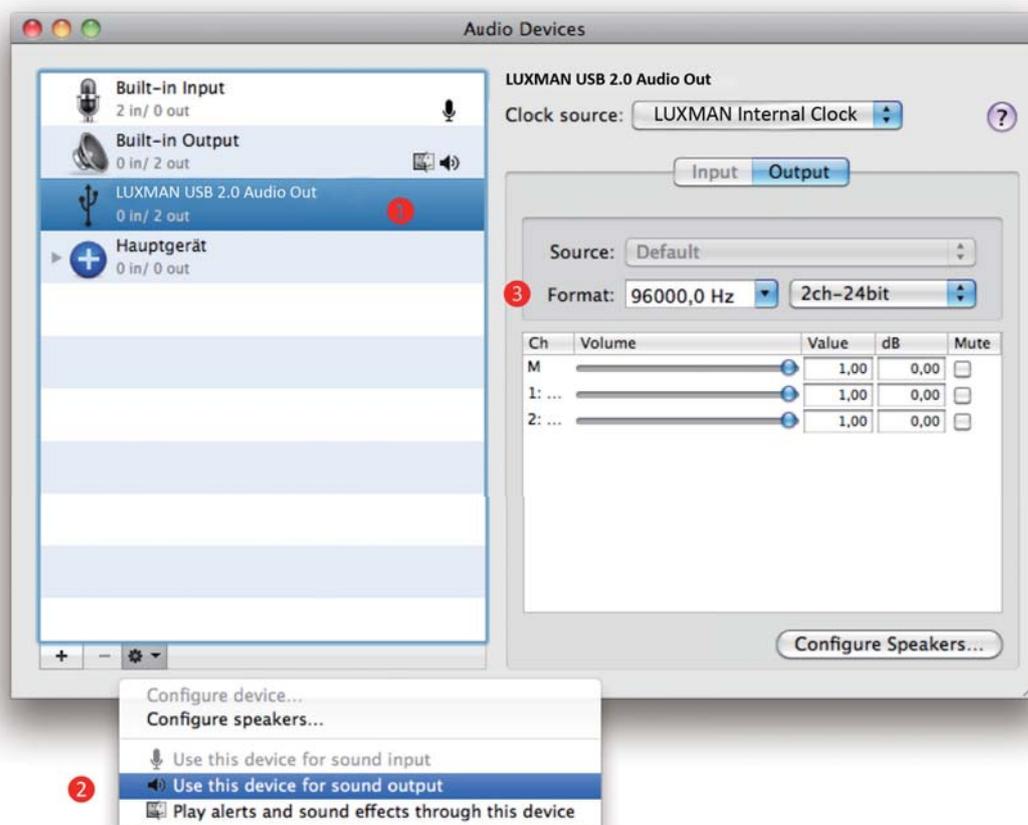
Open Finder >Go to> Utilities

Open Audio-MIDI-Setup



Mac OS X Installation from 10.6.4

- 1 Select device LUXMAN USB 2.0 Audio Out.
- 2 Check Use this device for sound output.
- 3 Set your desired sample rate and bit resolution at Format.



Software Installation Instruction

Windows 7 / Vista / XP Installation

You have to install the driver before using the USB device for the first time.

Put the installation CD into the CD/DVD drive of your computer.

Setup will start automatically. If not, please follow these steps:

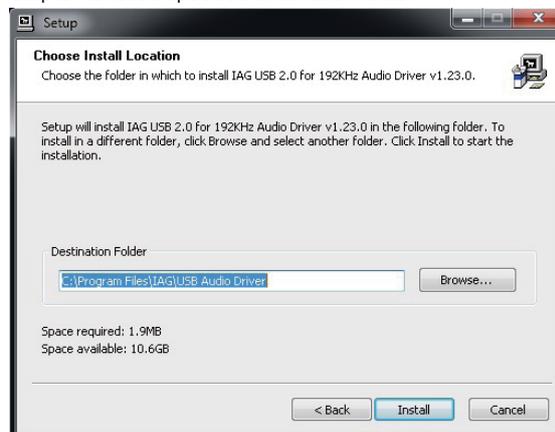
Click on Start -> Computer. Right-click the icon of the CD/DVD drive and then click on Install program.

Follow the instructions of the setup program to install the driver. Complete the installation by clicking Finish.

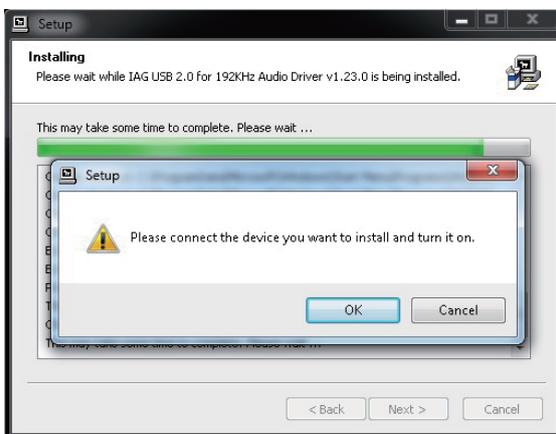
Step 1 - Start Install Wizard



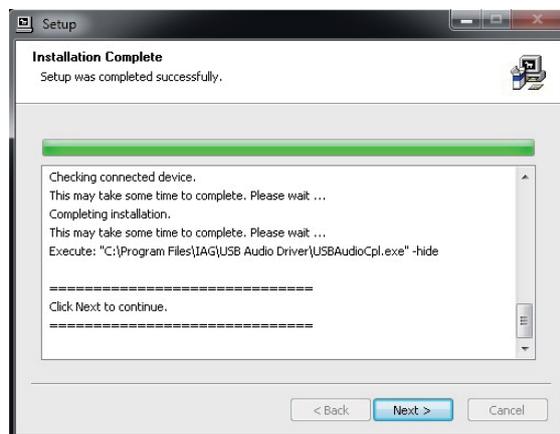
Step 2 - Choose specified destination folder



Step 3 - Connect your Luxman P-10 Headphone Amplifier



Step 4 - Click "next" to finish the installation



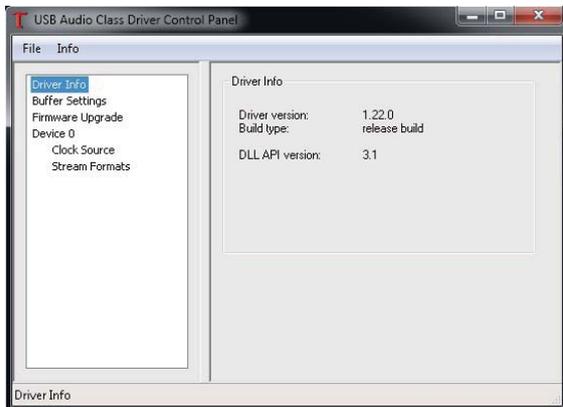
Step 5 - Close the installation



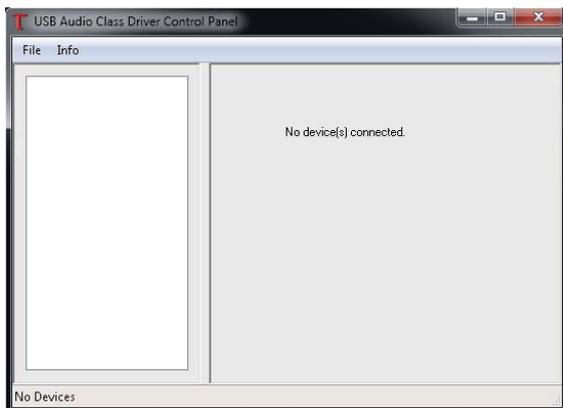
Software Installation Instruction



To confirm connection of the Luxman P-10 to the PC, double click on the  tab.



If this window appears then the connection has been established between the Luxman P-10 Headphone Amplifier and the PC, the device is now ready to use.



If this window appears then the connection has not been established, please reconnect the Luxman P-10 Headphone Amplifier.

Windows 7 / Vista / XP System Setup

After successful installation of the driver please connect the USB audio device to a free USB port.

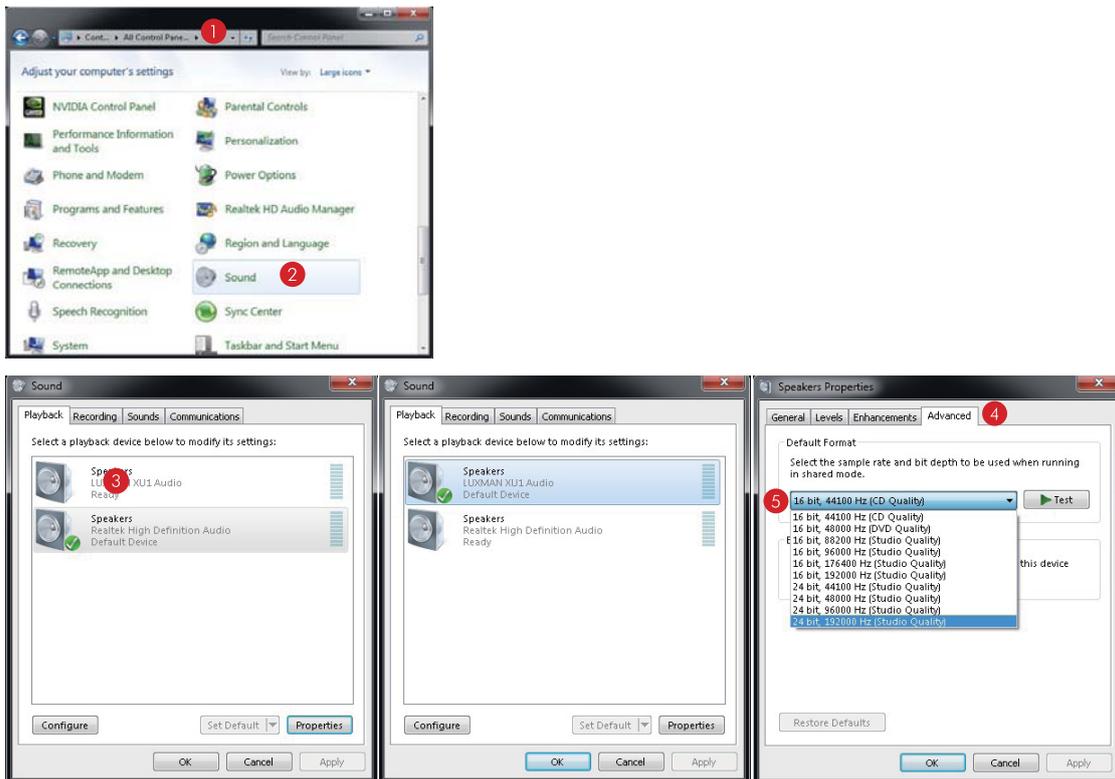
Do not use a USB-hub! Close all other USB applications if you want to listen to music with your computer. The LUXMAN XU1 Audio Driver replaces the internal soundcard of your computer.

Adjusting the sample rate

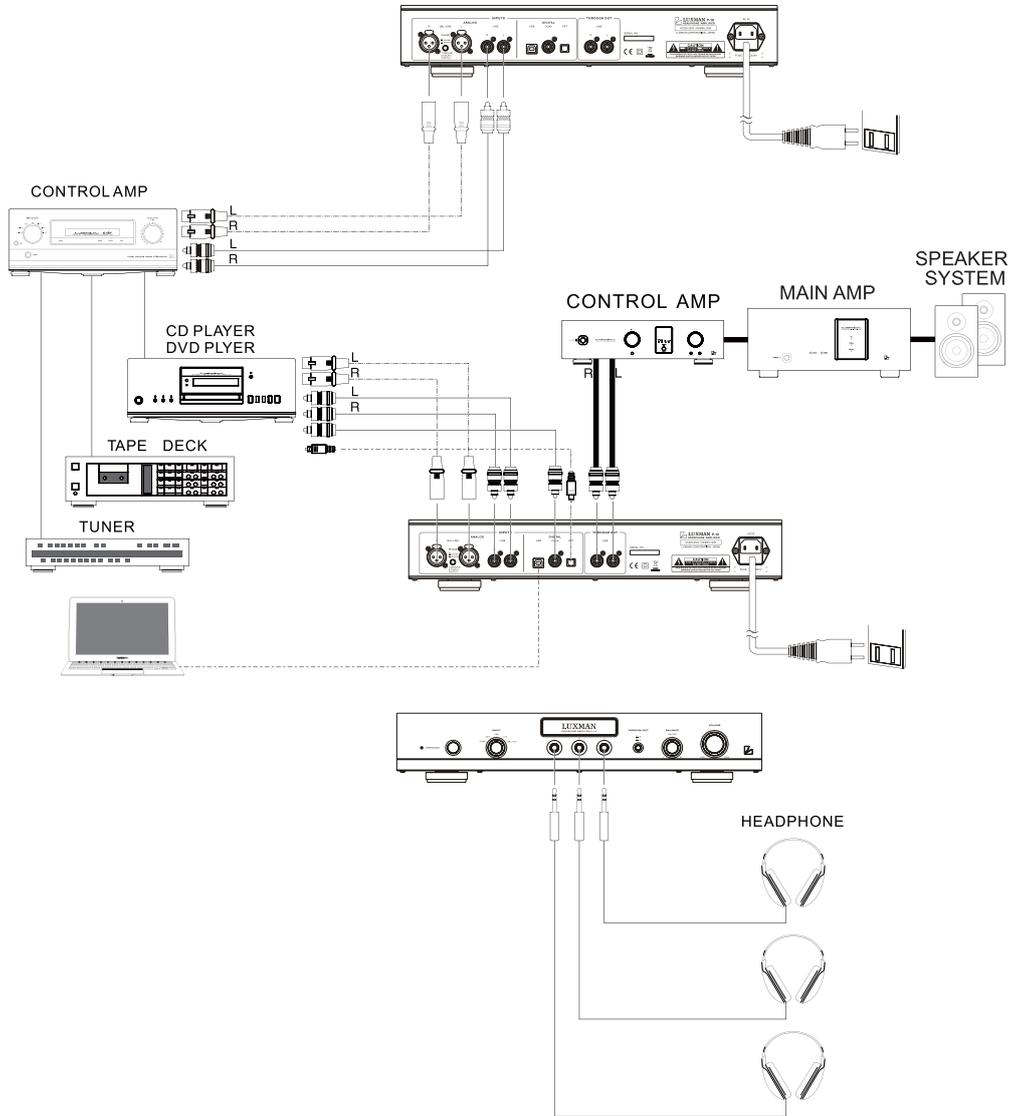
- 1 Open the control panel of your computer.
- 2 Open Sound.
- 3 If the LUXMAN XU1 Audio is not set do to default, please set it to default as shown.
- 4 Under properties select Advanced and adjust the output format as required 5.

Note: Windows Vista does not support the sample rate of 176.4kHz/24 bit. If you want to playback this sample rate, a music player supporting this feature is required. You can use J. River media Center or Foobar for example.

Windows XP does not support sample rates of more than 48 kHz. You need a special music player to play back other sample rates, for example J. River media Center or Foobar.



Connections



Before making connections

Before connecting other devices, connect the accessory power cable to the AC inlet of this unit. Turn off the power switch of this unit and the power supplies of the connected devices to prevent unexpected noise.

How to connect power supply

Use the accessory power cable and insert the AC plug in an outlet on the wall.

How to connect CD player or other devices

Connect the output terminals of a CD player or TAPE player(rec out) to the line input of this unit, used RCA cables or BALANCE cables.

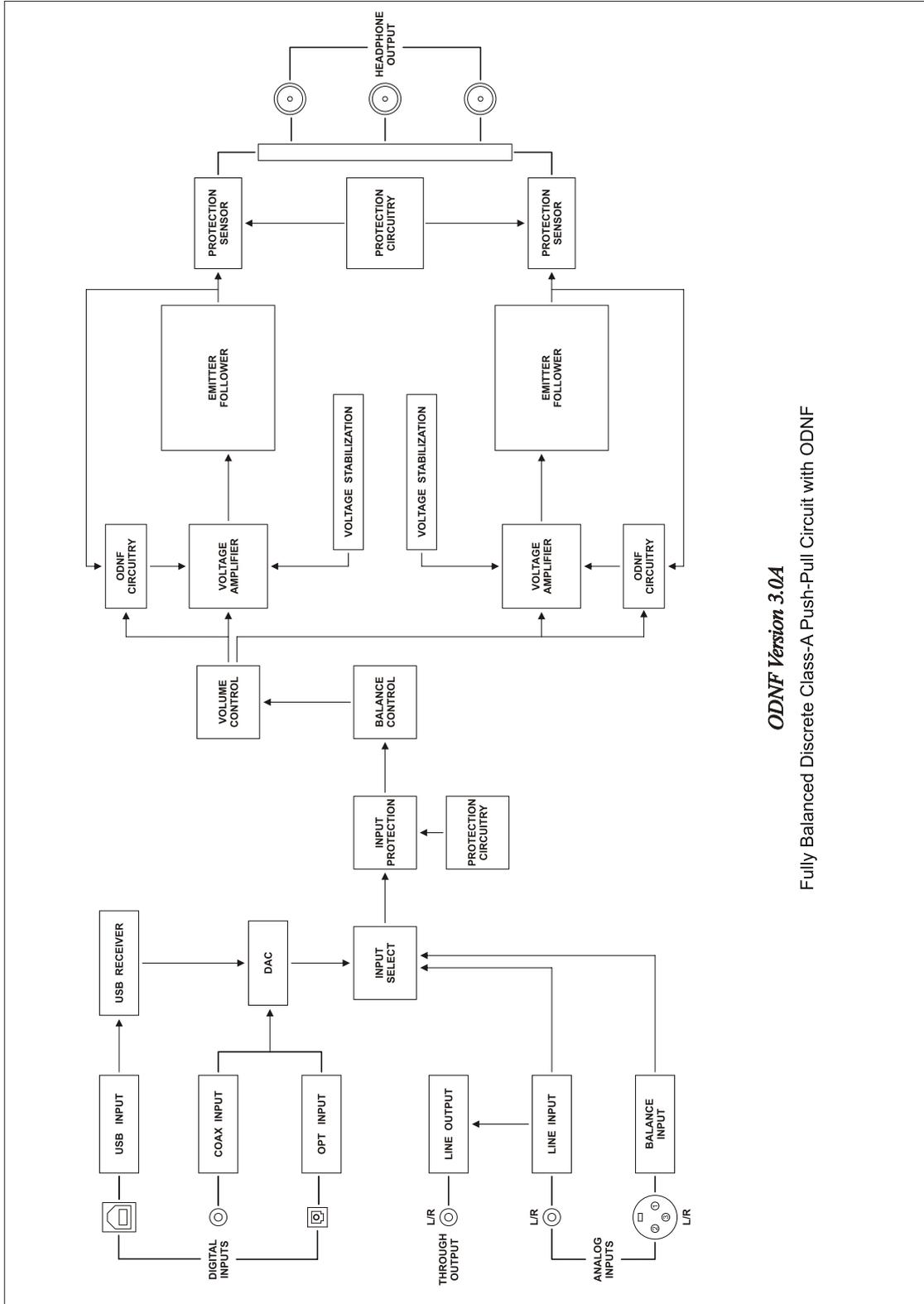
Phone out

Connectors for headphone with 8 ohms or above. Three sets of headphone can be used.

Through out (line) connection

Input signal pass through line output can be used to connect with amplifier or other devices.

P-10 Block Diagram



ODNF Version 3.0A
Fully Balanced Discrete Class-A Push-Pull Circuit with ODNF

Specification

Continuous Power Output	4W / 8Ω, 1W / 32Ω
Input Sensitivity	1V (4W/8Ω, 1W/32Ω)
Input Impedance	LINE 23 kΩ (VOLUME CONTROL max./through out OFF) BALLINE 66 kΩ COAX 75Ω
Total Harmonic Distortion	0.0025% (1 kHz, 2W/8Ω) 0.002% (20 Hz ~ 20 kHz, 2W/8Ω)
Frequency Response	20 Hz ~ 20 kHz +0/-0.1 dB (4W/8Ω) 10 Hz ~ 100 kHz +0/-0.5 dB (4W/8Ω)
S/N ratio	108dB (IHF - A)
Damping Factor	48/8Ω
Digital Resolution	44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
Accessories	Power Cord, User Manual, Thank You Card, Warranty Card, CD-ROM, USB cable, White Gloves
Power Supply Voltage	AC110~120V, 220-230V (50/60Hz)
Power Consumption	19W
Max. External Dimensions	595(L)×565(W)×235(H) (mm)
Net Weight	10.5kg

※ The right is reserved to alter performance, specification, and appearance as required.

Troubleshooting



Before investigating a problem, always switch off the system at mains.

If your system is not working properly please work through this checklist before returning the unit to your dealer.

Problem	Cause	Solution
No power is supplied even though the power switch is pressed.	<ul style="list-style-type: none"> The power plug is disconnected from the AC outlet, or it is not completely inserted. 	<ul style="list-style-type: none"> Insert the power plug in the AC outlet securely.
	<ul style="list-style-type: none"> The front panel toggle switch is in off status. 	<ul style="list-style-type: none"> Press the front toggle switch to switch the unit on.
No sound is generated	<ul style="list-style-type: none"> The volume control is set to minimum level. 	<ul style="list-style-type: none"> Rotate the volume control clockwise to adjust the sound level.
	<ul style="list-style-type: none"> Cable connections are incomplete. 	<ul style="list-style-type: none"> Make sure cable connections are made securely.
	<ul style="list-style-type: none"> The input selector is not set to the correct input source. 	<ul style="list-style-type: none"> Set the input selector to the input source
	<ul style="list-style-type: none"> The output level of the input device is set to the minimum. 	<ul style="list-style-type: none"> Adjust the output level.
	<ul style="list-style-type: none"> Computer does not detect the presence of the P-10; outboard DAC does not lock onto incoming data even though USB cable is connected. 	<ul style="list-style-type: none"> Go to control panel -> Sounds and Audio Devices Properties -> Audio tab -> Sound playback -> Select the P-10 as default device.
No sound is generated on one side	<ul style="list-style-type: none"> The balance control of the input source is fully rotated. 	<ul style="list-style-type: none"> Set the balance control to the desired position.
	<ul style="list-style-type: none"> The connecting cable is connected on one side only. 	<ul style="list-style-type: none"> Make sure cable connections are made for both sides.
No signal from Throughout line	<ul style="list-style-type: none"> Throughout switch set to off. 	<ul style="list-style-type: none"> Set the throughout switch to on.
Humming sound (boon or hiss noise) generated	<ul style="list-style-type: none"> The ground side of the plug-pin cable has no contact with the terminal. 	<ul style="list-style-type: none"> Secure the plug-pin cable connection.
	<ul style="list-style-type: none"> Induction noise picked up from another device. 	<ul style="list-style-type: none"> Make sure any devices that might interfere with the amplifier are not in close proximity to the amplifier.
	<ul style="list-style-type: none"> The power cables are laid too close to the signal cables. 	<ul style="list-style-type: none"> Provide sufficient spacing between the power cables and the signal cables.



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