

uandsound

Uandk sound UK

Recording the Serial Number

Please read the serial number on the real panel and record it below. Also record the place where you purchased this production and the date of purchase.

Model Number **M2300**

Serial Number _____

Place of Purchase _____

Date of Purchase _____

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M2300

Owner's Manual

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Specifications

Rated Power Output	200 Watts RMS at 8 ohms 300 Watts RMS at 4 ohms
Frequency Response	+/- 0.1 dB: 10 Hz-40 kHz +/- 3 dB: 5 Hz-110 kHz
Signal to Noise Ratio (Un-weighted)	100 dB
Distortion(THD) (20Hz - 20KHz)	<0.02%
Damping Factor (into 8 Ohms)	>300
Gain	1.75V
Input Impedance	> 80K Ohms
External Trigger	5~30V AC/DC
DC Offset	Less than 10 mv
Crosstalk (20Hz-20KHz)	>80 dB between ANY Channel
Phase (20Hz-20KHz)	Less than 15 degree
Power Requirements (All Channel Driven)	230 VAC, 50Hz, 1200W
Power Consumption (Standby)	5 Watts
Dimensions	452 mm W(including the panel) 105 mm H(including feet) 453 mm D(including speaker connections)
Chassis Type	2 RU Chassis
Weight	22 KG

Trouble Shooting Guide

The M2300 is expertly designed and built to provide two years of trouble-free performance.

Most problems that occur can usually be solved by checking your setup or making sure that the audio and video components connected to the amplifier are on and fully operational.

The following information will help you deal with common setup problems you may experience during normal use of your unit. If problems persist, contact your **UandK Sound** Dealer for help.

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M2300 Front Panel Features

1. STANDBY/ACTIVE Button

Turn on or turn off the M2300 by touching this button when the "ON/TRIGGER" switch at "ON". This button has no function when the "ON/TRIGGER" switch at "TRIGGER". See the feature of "Power Mode".

2. Amplifier Display

- a. BLUE LIGHT - Power Mode is on .
- b. Red LIGHT - This indicate a fault condition. The fault condition is one or more of the followings:
 - Excessive Operating Temp;
 - Excessive Current(Short Circuit);
 - DC on the output.
- c. Dull-Red Light - Standby mode.

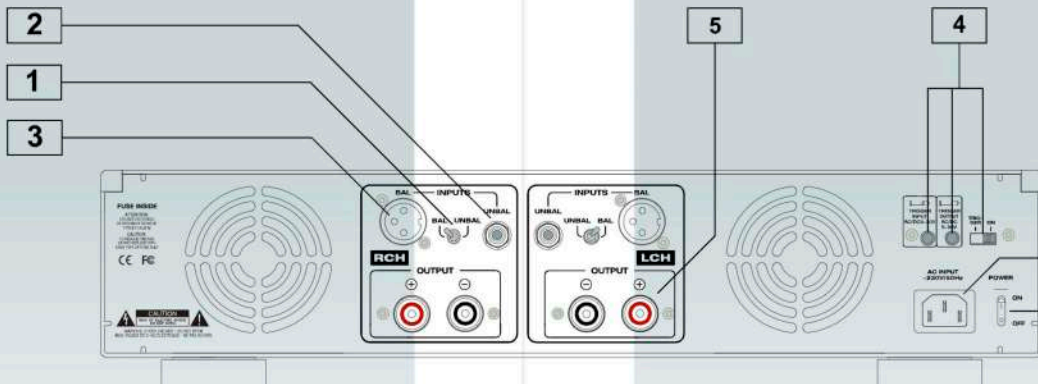
INSTALLATION-GETTING CONNECTED



CAUTION: All connections and switching must be done with the amplifier's power switch positioned to "off". Connect the power cord last to be sure that the amplifier is off during all of your connections and set up.

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M2300 Rear Panel Features

1. Inputs Selector Switch

- "UNBAL" is a female RCA Input provided to receive unbalanced audio sources.
- The M2300 features XLR Input. Select to "BAL" when it connects to balanced XLR signal.

NOTES: Choose "UNBAL" or "BAL" for every audio channel. Cannot use XLR cables in, with RCA out, or the converse situation. There is no direct internal connection between RCA and XLR Inputs.

2. Unbalanced RCA Input

Connect to the unbalanced RCA output of preamplifier and turn the switch to "UNBAL".

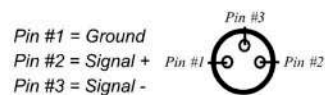
NOTES: Many RCA type patch cords can be very tight fit and some have to be removed by twisting action.

3. Balanced XLR Input

Connect to the balanced XLR output of preamplifier and turn on "BAL" mode.

NOTES: Balanced connection offer superior noise immunity over unbalanced RCA connection. Use balanced XLR connection whenever possible.

On the balanced XLR connector, the wiring is as follows:



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4. Power Mode

- ON-Always On.
- In the TRIGGER(Left) position, the M2300's ON and OFF functions are controlled by a trigger in from a source or preamplifier device(Use the 1/8" mono jack to connect). The trigger accepts 5~30V AC/DC and will turn the M2300 on whenever a trigger is present. When there is no trigger, the amplifier goes into standby mode.
- The M2300 supply TRIGGER link out to another amplifier(Use the 1/8" mono jack connect).

5. Speaker Outputs

- Connect the speaker wires to the Binding Posts.
NOTE: Red is Positive and Black is Negative.
- Use either Bare Speaker Wire or Banana Plugs to terminate the speaker wire.
NOTE: The total average impedance of the speaker(s) should be no less than 3 ohm per channel. You must make sure that the lower impedance does not cause M2300 to overheat, shut down, blow the line fuse, or pop your circuit breaker.

6. AC Power

- Power Switch:** When the switch is "-" position, the idle mode is activated. And this mode can be turned off by turning the switch to the "o" position.
- IEC Line Cord Socket:** Input voltage requires a range of 95~132VAC or 195~264VAC (switch inside). Use the correct IEC line cord, plug the line cord into a AC wall socket which is correctly configured with the voltage and current supply specified for M2300. Do not plug this line cord into a power trip, it must plug directly into a wall socket with grounding.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus in or near rain or moisture.

1. Read and keep these instructions for future reference.
2. Do not use this apparatus near water.
3. Clean only with dry cloth.
4. Do not block any ventilation openings. Install according to manufacturer's instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
6. Do not override the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades, one wider than the other. A grounding type 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 your outlet, consult an electrician for replacement of the obsolete outlet.
7. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles and the point where it exits from the apparatus.
8. Only use attachments/accessories specified by the manufacturer.
9. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
10. Unplug this apparatus during lightning storms or when unused for long period of time.
11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the 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 operated normally, or has been dropped.
12. To completely disconnect this equipment from the AC mains, disconnect the power supply cord plug from the AC receptacle.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING: SHOCK HAZARD – DO NOT OPEN.
AVIS: RISQUE DE CHOC ELECTRIQUE – NE PAS OUVRIR.



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



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

Trouble Shooting

No audio output	• Speaker cables may have come undone. Turn off your system and check the cables, and tighten the amplifier and speaker binding posts. • Damaged audio cable. • The preamplifier volume level is low for the channels concerned. Recheck the preamplifier calibration procedure. • Amplifier is in standby mode, and needs to be turned on "BLUE LED". • Check in case any missing channels have been turned off in a preamplifier setup menu. For example, the center amplifier channel will not receive a signal if the preamplifier has been set to "Phantom." • The ON/TRIGGER switch on the M2300 might be in the off position. • A fuse on the unit may have blown or the individual fuse within the power module may have blown.
Hum or buzzing sound is heard	• If your preamplifier has XLR balanced outputs, use them because they offer greater immunity to noise fields. • Remember to turn off all components in your system, including the amplifier, before disconnecting or connecting any cables during troubleshooting. • Disconnect all cables which come from outside the room, and check if the hum goes away. This includes such connections as cable TV, satellite TV, or roof top antennas. • Try moving the speaker cables away from any power cords. Try just one speaker, connecting it to each amplifier channel and see if one channel is bad.
Amplifier will not turn out	• The amplifier must be plugged into a live outlet. • The power switch on the rear panel must be on. • The power mode switch may be set to the wrong mode for your system.

Other Probable Causes of Noise

Speaker noise may also be caused by interference or noise on your AC line. Make sure there are no large appliances sharing the line, or halogen lamps or light-dimming Triac devices. Try connecting your system to another AC socket on a separate line.

If the hum is heard from within the **M2300** and not through the speakers, this may also be caused by interference on the AC or DC lines. The power transformers may turn this interference into an audible noise. Internal hum can be made worse by a shelf or cabinet resonance, so try moving the **M2300** to another shelf.

Try moving your components further away from the TV, especially if you ever notice the screen has changed color in the area closest to the component.

If you have very high efficiency speakers, these may tend to reveal noises which other speakers do not.

An excessive temperature fault can be reset by allowing amp to cool and cycling power on/off button on the front panel. Excessive current (short circuit) can be reset by removing the cause of the short and cycling power on/off button on the front panel. DC at output is a possible fault condition that is equipment related and requires technical assistance. Please contact the **UandK Sound** dealers if you have repeated problems causing the RED front panel light to illuminate that are NOT thermal or short circuit related.

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Please read the serial number on the real panel and record it below. Also record the place where you purchased this production and the date of purchase.

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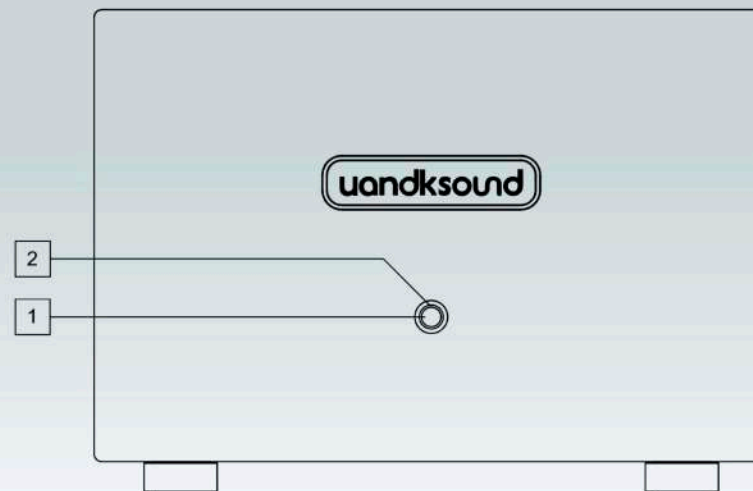


Specifications

Rated Power Output	200 Watts RMS at 8 ohms 300 Watts RMS at 4 ohms
Frequency Response	+/- 0.1 dB: 10 Hz-40 kHz +/- 3 dB: 5 Hz-110 kHz
Signal to Noise Ratio (Un-weighted)	100 dB
Distortion(THD) (20Hz - 20KHz)	<0.02%
Damping Factor (into 8 Ohms)	>300
Gain	1.75V
Input Impedance	> 80K Ohms
External Trigger	5-30V AC/DC
DC Offset	Less than 10 mv
Crosstalk (20Hz-20KHz)	>80 dB between ANY Channel
Phase (20Hz-20KHz)	Less than 15 degree
Power Requirements (All Channel Driven)	230 VAC, 50Hz, 4000W
Power Consumption (Standby)	5 Watts
Dimensions	452 mm W(including the panel) 321 mm H(including feet) 453 mm D(including speaker connections)
Chassis Type	7 RU Chassis
Weight	57 KG

Trouble Shooting Guide

The M7300 is expertly designed and built to provide two years of trouble-free performance. Most problems that occur can usually be solved by checking your setup or making sure that the audio and video components connected to the amplifier are on and fully operational. The following information will help you deal with common setup problems you may experience during normal use of your unit. If problems persist, contact your **UandK Sound Dealer** for help.

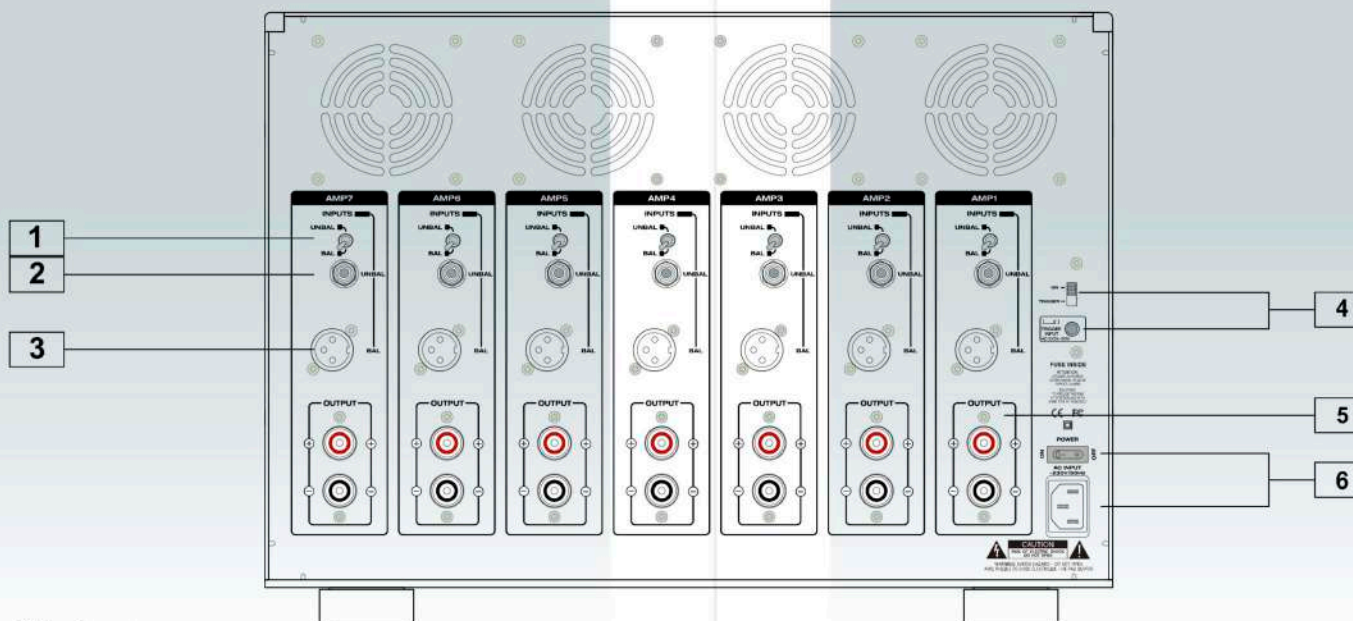


M7300 Front Panel Features

1. **STANDBY/ACTIVE Button**
Turn on or turn off the M7300 by touching this button when the "ON/TRIGGER" switch at "ON". This button has no function when the "ON/TRIGGER" switch at "TRIGGER". See the feature of "Power Mode".
2. **Amplifier Display**
 - a. **BLUE LIGHT** - Power Mode is on .
 - b. **Red LIGHT** - This indicate a fault condition. The fault condition is one or more of the followings:
 - Excessive Operating Temp;
 - Excessive Current(Short Circuit);
 - DC on the output.
 - c. **Dull-Red Light** - Standby mode.

INSTALLATION-GETTING CONNECTED

CAUTION: All connections and switching must be done with the amplifier's power switch positioned to "off". Connect the power cord last to be sure that the amplifier is off during all of your connections and set up.



M7300 Rear Panel Features

1. Inputs Selector Switch

- "UNBAL" is a female RCA Input provided to receive unbalanced audio sources.
- The M7300 features XLR Input. Select to "BAL" when it connects to balanced XLR signal.

NOTES: Choose "UNBAL" or "BAL" for every audio channel. Cannot use XLR cables in, with RCA out, or the converse situation. There is no direct internal connection between RCA and XLR Inputs.

2. Unbalanced RCA Input

Connect to the unbalanced RCA output of preamplifier and turn the switch to "UNBAL".

NOTES: Many RCA type patch cords can be very tight fit and some have to be removed by twisting action.

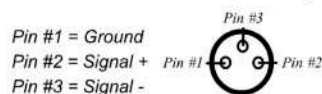
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NOTES: Balanced connection offer superior noise immunity over unbalanced RCA connection. Use balanced

XLR connection whenever possible.

On the balanced XLR connector, the wiring is as follows:



4. Power Mode

- ON-Always On.
- In the TRIGGER(Down) position, the M7300's ON and OFF functions are controlled by a trigger from a source or preamplifier device (Use the 1/8" mono jack to connect). The trigger accepts 5-30V AC/DC and will turn the M7300 on whenever a trigger is present. When there is no trigger, the amplifier goes into standby mode.

5. Speaker Outputs

- Connect the speaker wires to the Binding Posts.
NOTE: Red is Positive and Black is Negative.
- Use either Bare Speaker Wire or Banana Plugs to terminate the speaker wire.
NOTE: The total average impedance of the speaker(s) should be no less than 3 ohm per channel. You must make sure that the lower impedance does not cause M7300 to overheat, shut down, blow the line fuse, or pop your circuit breaker.

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- Power Switch:** When the switch is "-" position, the idle mode is activated. And this mode can be turned off by turning the switch to the "o" position.
- IEC Line Cord Socket:** Input voltage requires a range of 95-132VAC or 195-264VAC (switch inside).
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