

**LINN KOLEKTOR**  
PREAMPLIFIER OWNERS MANUAL



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# Important safety information

Explanation of symbols used in this manual and on the product:



This symbol is intended to alert the user to the presence of uninsulated dangerous voltages within the enclosure of sufficient magnitude to cause electric shock.



This symbol is intended to alert the user to the presence of important maintenance and servicing information in the instruction and service manuals.

## **CAUTION**

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE THE COVER.

NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: SHOCK HAZARD. DO NOT OPEN.

*AVIS: RISQUE DE CHOC ELECTRIQUE. NE PAS OUVRIR.*

CAUTION: REPLACE FUSE WITH SAME TYPE AND RATING.

*ATTENTION: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE.*

DISCONNECT SUPPLY CORD BEFORE CHANGING FUSE.

*ATTENTION: DEBRANCHER AVANT DE REMPLACER LE FUSIBLE.*

## **WARNING**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

## **MAINS PLUGS**

This appliance is supplied with a non-rewireable mains plug for the intended country.

Replacement mains leads can be obtained from your Linn retailer. Should you need to change the plug please dispose of it carefully.

A plug with bared conductors is dangerous if engaged in a live socket.

The Brown wire must be connected to the Live (Line) supply pin.

The Blue wire must be connected to the Neutral supply pin.

The Green/Yellow wire must be connected to the Earth (Ground) supply pin.

Please contact your retailer or a competent electrician if you are in any doubt.

## GENERAL SAFETY INSTRUCTIONS

1. Read instructions. Read the safety and operating instructions before operating the appliance.
2. Retain instructions. Retain the safety and operating instructions for future reference.
3. Heed warnings. Observe all warnings on the appliance and in the operating instructions.
4. Follow instructions. Follow all operating and use instructions.
5. Water and moisture. Do not use the appliance near water, for example near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool and the like.
6. Carts and stands. Use only with a cart or stand that is recommended by the manufacturer.
- 6a. An appliance and cart combination should be used with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Wall or ceiling mounting. Mount to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation. Site the appliance so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat. Site the appliance away from heat sources such as radiators, heaters, stoves, or other appliances (including amplifiers) that produce heat.
10. Power sources. Connect the appliance to a power supply only of the type described in the operating instructions or marked on the appliance.
11. Grounding or polarisation. Do not defeat the safety purpose of the polarised or grounding type plug. A polarised 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. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
12. Power cord protection. Route power cords so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, power sockets, and at the point where they exit from the appliance.
13. Protective attachment plug. As a safety feature the product is equipped with an attachment plug containing overload protection. See the instruction manual about resetting or replacing the plug. Should the plug need replacing ensure that a replacement is used which has the same overload protection as the original.
14. Cleaning. The product should be cleaned only as recommended by the manufacturer.
15. Power lines. An outdoor antenna should be located away from power lines.
16. Outdoor antenna grounding. If an outdoor antenna is connected to the tuner/receiver ensure that the antenna system is grounded to provide some protection against voltage surges and static build up.  

In the USA see article 810 of the National Electrical Code ANSI/NFPA 70 concerning installation requirements.
17. Unplug this apparatus during lightning storms or when unused for long periods of time.
18. Objects and liquid entry. Take care not to let objects or liquids fall into the product.
19. Damage requiring service. The product should be serviced by qualified personnel if:
  - a) The power cord or plug has been damaged.
  - b) Objects or liquid have fallen into the product.
  - c) The product has been exposed to rain.
  - d) The product does not appear to operate normally or exhibits a marked change in operation.
  - e) The product has been dropped or the enclosure damaged.
20. Servicing. Don't attempt to service the product beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

## **UK USERS PLEASE READ THIS IMPORTANT SAFETY INFORMATION**

### **Fuse replacement**

This appliance is fitted with a non-rewireable 13 Amp mains plug. The plug contains a 5 Amp fuse. If the fuse has blown it can be replaced as follows:

- a) Pull out the red fuse cover/carrier.
- b) Remove and dispose of the blown fuse.
- c) Fit a new 5 Amp BS1362 approved fuse into the carrier and push the carrier back into the plug.

Always ensure the fuse cover is fitted. If the fuse cover is missing do not use the plug. Contact your Linn retailer to obtain a replacement fuse cover.

Fuses are for fire protection and do not protect against electric shock.

### **Mains plug replacement**

Should your mains plug need replacing and you are competent to do this proceed as follows. If you are in doubt contact your Linn retailer or a competent electrician.

- a) Disconnect the plug from the mains supply.
- b) Cut off the plug and dispose of it safely. A plug with bared conductors is dangerous if engaged in a live socket.
- c) Only fit a 13 Amp BS1363A approved plug with a 5 Amp fuse.
- d) The cable wire colours or a letter will be marked at the connection points of most quality plugs.

Attach the wires securely to their respective points. The Brown wire must go to the Live pin, the Blue wire must go to the Neutral pin, and the Green/Yellow wire must go to the Earth pin.

- e) Before replacing the plug top ensure that the cable restraint is holding the outer sheath of the cable firmly and that the wires are correctly connected.

### **WARNING**

THIS APPLIANCE MUST BE EARTHED.

### **Replacing the fuse**

Should the mains fuse blow replace it only with an equivalent part. The fuse holder is located just below the mains inlet socket. To replace the fuse disconnect the product from the mains supply. Using a flat blade screwdriver remove and replace the fuse. If the fuse blows a second time there is a fault in the product. Contact your local retailer.

**Fuse ratings.** See specifications section.

**Mains voltage operating range.** See specifications section.

**Warning!! The power supply may be destroyed if a unit designed for 115V is connected to 230V.**

## CE Declaration of Conformity

Linn Products Ltd declare that this product is in conformance with the Low Voltage Directive 73/23/EEC and Electromagnetic Compatibility 89/336/EEC as amended by 92/31/EEC and 93/68/EEC.

The conformity of the designated product with the provisions of Directive number 73/23/EEC (LVD) is proved by full compliance with the following standards:

Standard number	Date of issue	Test type
EN60065	1993	General requirements Marking Ionizing Heating under normal conditions Shock hazards under normal operating conditions Insulation requirements Fault conditions Mechanical strength Parts connected to the mains supply Components Terminal devices External flexible cords Electrical connections and mechanical fixings

The conformity of the designated product with the provisions of Directive number 89/336/EEC (EMC) is proved by full compliance with the following standards:

Standard number	Date of issue	Test type
EN55013	1994	Conducted emissions
EN55013	1994	Absorbed emissions
EN60555-2	1987	Harmonics
EN60555-3	1987	Voltage fluctuations
EN55020	1994	Immunity

### FCC notice

NOTE: 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 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.

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This manual was produced by Human-Computer Interface Ltd,  
Cambridge, England.



**With the Linn KOLEKTOR  
you will hear the sources in  
your hi-fi system at their  
best.**

# Introduction

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Congratulations and thank you for purchasing the Linn KOLEKTOR Preamplifier.

We believe that good music is not a luxury, but a necessity, and we at Linn have dedicated the last twenty-five years to making sure that our customers are given the best possible experience of the music they love. In other words, we take music seriously, which is why we dedicate ourselves to building hi-fi which sets the highest possible standards in bringing music to life within your home.

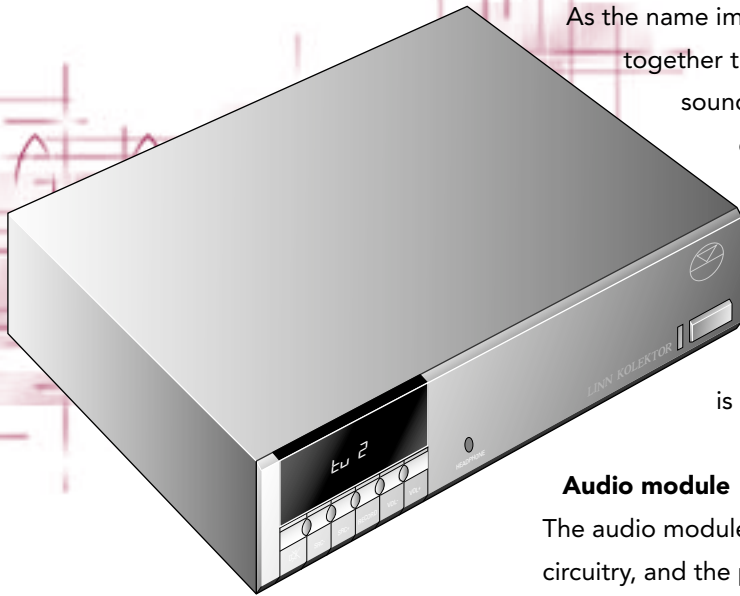
The KOLEKTOR draws on Linn's experience of building the ultimate hi-fi components to create a preamplifier that takes advantage of state of the art technology to deliver unprecedented audio performance. With the capability of handling up to ten input sources, including a moving magnet phono input, the KOLEKTOR is the ideal choice as the heart of any hi-fi system. With the Linn KOLEKTOR you will hear the sources in your hi-fi system at their best, and we want to make sure that you get the maximum enjoyment possible.

To do that, you need to know exactly how to get the best out of your KOLEKTOR Preamplifier and that is what this manual is all about. In the next few pages you will find out everything you need to know about how to set up the KOLEKTOR Preamplifier, and how to use it to get the best possible results.

We hope that you will spend a few minutes getting to know the KOLEKTOR Preamplifier well, and will keep on experimenting and, above all, enjoying it!

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## Your Linn KOLEKTOR



As the name implies we intended the KOLEKTOR to gather together the signals from the ever increasing number of sound sources, and control them with high quality, direct signal handling and a simple, flexible control system.

There are two main modules in the KOLEKTOR, audio and control. In addition an optional RS232 (computer) interface module is available.

### **Audio module**

The audio module carries the input and output sockets, the audio circuitry, and the power supplies. In all our products we make the audio path as short, simple, and direct as possible. A smaller circuit works better and picks up less noise. The KOLEKTOR audio path contains high-precision solid-state switches and an electronic gain control. The amplification uses low-noise, low-distortion precision operational amplifiers. All the components are surface mounted, keeping the signal path as short as possible and minimising the number of contacts.

A separate headphone amplifier drives high-quality headphones with no compromises to the main audio path.

The precision-equalised, low-noise phono stage is fully integrated and electronically switched, avoiding any mechanical connections in the sensitive phono signal path.

It is unusual to have tone controls in a preamplifier of this performance level. However, the controls in the KOLEKTOR are very different from conventional bass and treble controls, which cause extreme distortion to the audio signal. The bass control in the KOLEKTOR has its maximum effect around 40Hz, and the treble control at 20kHz. These are at the extremes of the audio band and are intended as subtle refinements to the playback system, used to compensate for smaller loudspeakers, a small room, or a lightly furnished acoustically 'bright' room. When set to flat they are transparent to the audio signal.

### **Control module**

The control module is compact, versatile, and powerful. This power makes the KOLEKTOR very easy to use and gives you many facilities not possible in a conventional preamplifier. We have been using microprocessors in our preamplifiers from the very first one we built (the LK1). The KOLEKTOR has two microprocessors: one does all the work, and the other looks after the process of loading the software into the main processor.

As we are obsessive about preserving the signal integrity through our products we take extreme care to prevent any noise escaping from the control circuitry. Only two wires carry the communications between the control and audio modules. They have electrical activity only when you are changing an input or the volume level. A small dedicated power supply on the control module ensures that the power demands of the control circuitry have no effect on the main audio power supplies.



### **Interface module**

This attention to detail also applies to the RS232 module. There is no electrical connection between the RS232 ports and the internal circuitry. This prevents any noise from the external controlling system entering the audio circuitry.

We hope that this information explains a bit more about this unconventional control amplifier, but if you would like to know more about this or any of our products please contact us. Enjoy your music!

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## Special features of the KOLEKTOR

In addition to providing all the features you would expect on a high-quality preamplifier, the KOLEKTOR also provides several unique features.

### **Bass and treble controls**

The Linn KOLEKTOR includes subtle bass and treble controls. These provide slight frequency response adjustments to allow you to enhance the sound from small loudspeakers, or adjust the sound when the system is being used in a small room.

### **Independent source settings**

The Linn KOLEKTOR can remember the volume, balance, bass, and treble settings for each of the sources. This allows you to compensate for any tonal differences between your sources, without having to readjust the settings each time you switch sources.

### **Configurable source names**

To give you total flexibility about the way you connect sources to the KOLEKTOR Preamplifier you can configure each input with a name to identify the source that you have connected to it. This also determines the handset key used to select the source. You can also omit inputs, so that they are not selected when you cycle through the sources.

### **Recording lock**

When making tape recordings from the Linn KOLEKTOR you can lock the source you are recording to make sure that you cannot disturb the recording by accidentally selecting another source.

### **User options**

The KOLEKTOR Preamplifier includes 12 user options to allow you to customise the way the KOLEKTOR works to suit your own preferences. For example, you can control what happens when you switch the KOLEKTOR on, how the display operates, and how the volume control behaves.

### **Intelligent operation with other Linn products**

If you use the Linn KOLEKTOR with other Linn products, such as a Linn CD player or tuner, the KOLEKTOR can automatically select the appropriate input when you operate the handset controls for that source. This ensures that your hi-fi system is as intuitive as possible to use, and requires the minimum number of key presses to achieve what you want.

### **Optional computer control**

The KOLEKTOR Preamplifier can be fitted with an optional RS232 interface to allow it to be controlled from a PC. For more information about the PC interface, and details of the upgrade, please contact your Linn dealer.

# Setting up the KOLEKTOR

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This chapter explains how to unpack your KOLEKTOR, and how to set it up with your other hi-fi components.

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## Unpacking

The KOLEKTOR is supplied complete with the following accessories:

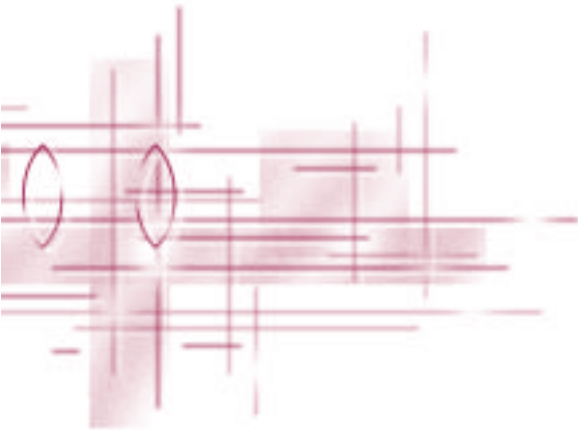
- The KOLEKTOR handset
- A mains lead
- Mains fuses
- This manual

We recommend you retain the packaging in case you need to transport the KOLEKTOR at a later date.

**WARNING:** Do not connect the mains supply until you have verified that the KOLEKTOR Preamplifier is set to the correct voltage for your mains supply.

The KOLEKTOR is factory-set for a 230 volts mains supply and must not be connected to a mains supply before it is adjusted for your local voltage, and fitted with the appropriate fuses. To set the voltage, slide the voltage selector on the back panel of the unit to display the correct setting for your country:

- 230V for countries with 230V or 240V supplies.
- 115V for countries with 100V or 115V supplies.





### **Replacing the fuses**

The KOLEKTOR Preamplifier requires two fuses. To replace the fuses first identify the correct fuses for your local voltage; see *Specifications*, page 30, for the fuse ratings.

The fuse compartment is located below the mains inlet on the back panel. To replace the fuses pull open the compartment like a drawer, flip down the cover, and remove the two original fuses. Then insert the two replacement fuses, and close the fuse compartment.

**WARNING:** This appliance must be earthed. Use the earthed moulded mains lead supplied. Never use an unearthed plug or adaptor.

---

## Positioning the KOLEKTOR

You can position your KOLEKTOR Preamplifier almost anywhere you find convenient, but the following considerations may be useful.

The KOLEKTOR Preamplifier can be placed on top of other Linn products, provided you allow plenty of air circulation around components that generate heat, such as power amplifiers.

If you are using the phono input you may need to keep the KOLEKTOR up to 30cm away from a power amplifier.

### **Locating the KOLEKTOR for use with the handset**

The Linn infra-red control system is exceptionally sensitive, and you should be able to operate your KOLEKTOR with the handset from almost anywhere in a room. For best results the infra-red sensor on



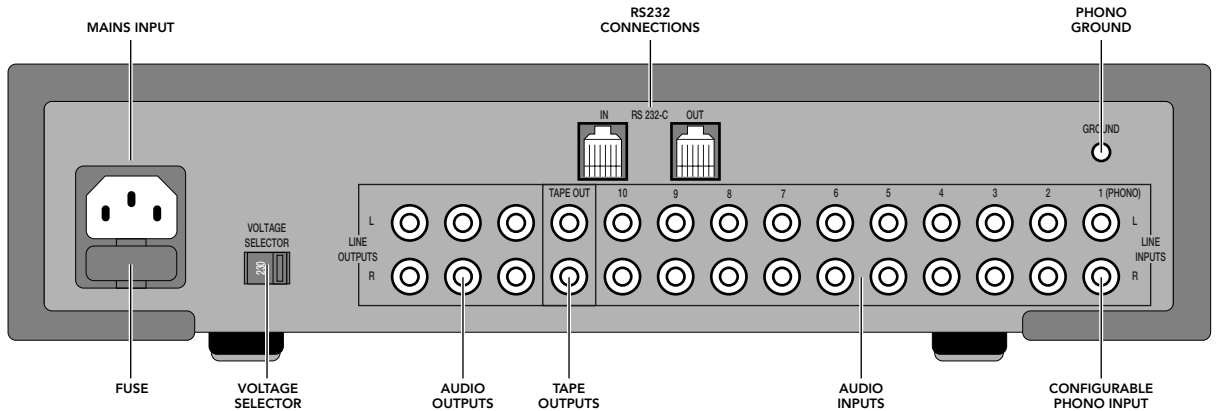
the front panel should be kept out of direct sunlight, and it should not be obscured.

Note that certain types of halogen lamps, and low-energy or fluorescent bulbs, can also interfere with use of the handset if they are near to the infra-red sensor.

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## Connecting the KOLEKTOR

The following diagram shows the connections for the rear panel of the KOLEKTOR:



**WARNING:** The KOLEKTOR should be switched off before connecting or disconnecting any of the plugs on the rear panel, or you may generate surges which could damage other components in your hi-fi system.

### Connecting the sources

The KOLEKTOR provides line-level RCA phono input connections for up to ten sources, labelled 1 to 10 on the back panel.

We recommend using high-quality leads such as Linn Interconnect cables. These are directional and should be connected so that the arrow points from the source component towards the KOLEKTOR.

### **Connecting a phono source**

Instead of using input 1 for a line-level source, you can configure the KOLEKTOR so that this input is suitable for the much lower level output provided by a moving magnet phono cartridge. For information about configuring this input see the section *Configuring the inputs*, page 19.

### **Connecting a tape recorder**

To make recordings in conjunction with the KOLEKTOR connect the TAPE OUT sockets to the line inputs of the tape deck. Connect the line outputs from the tape deck to any pair of input sockets on the KOLEKTOR (input 3 is initially configured as TAPE) for playback.

### **Connecting to a power amplifier**

To connect the KOLEKTOR to a power amplifier connect one pair of the line outputs from the KOLEKTOR to the line inputs of the power amplifier. The KOLEKTOR provides three sets of outputs to allow you to use multiple power amplifiers in conjunction with multi-amplifier or active speakers. The KOLEKTOR is ideal for use with any of the Linn high performance power amplifiers including the LK85, LK140, LK240, or KLOUT.

### **Connecting headphones**

You can connect a pair of headphones to the headphone socket on the front panel of the KOLEKTOR, which is fed from a dedicated internal headphone amplifier. Switch your power amplifier off to mute your loudspeakers.

### **Connecting the mains supply**

Connect the mains lead to the KOLEKTOR and plug it into a suitable power outlet.



# Using the KOLEKTOR

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This chapter gives general information about using the KOLEKTOR.

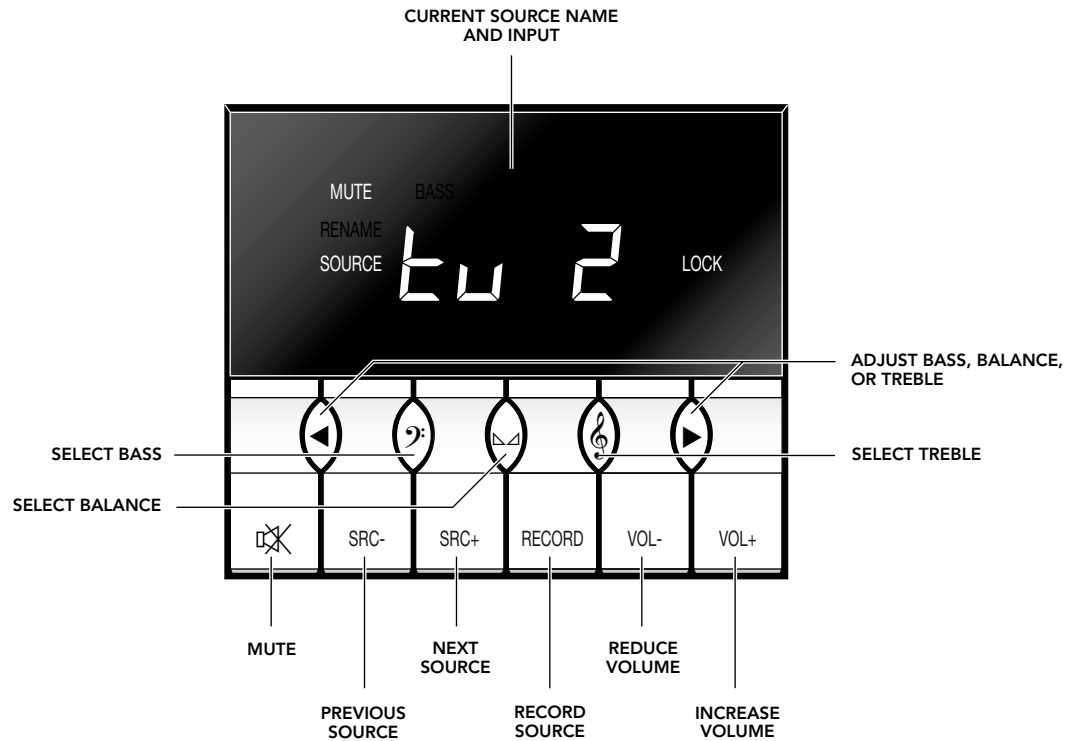
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## Using the front panel

We designed the KOLEKTOR to be as simple as possible to operate. The front panel display gives clear information about what you are doing and, although there are many sophisticated features, all the most commonly used ones require only one or two key presses.

The illustrations on the next page explain the function of each of the front panel keys, and the meaning of the different parts of the display.

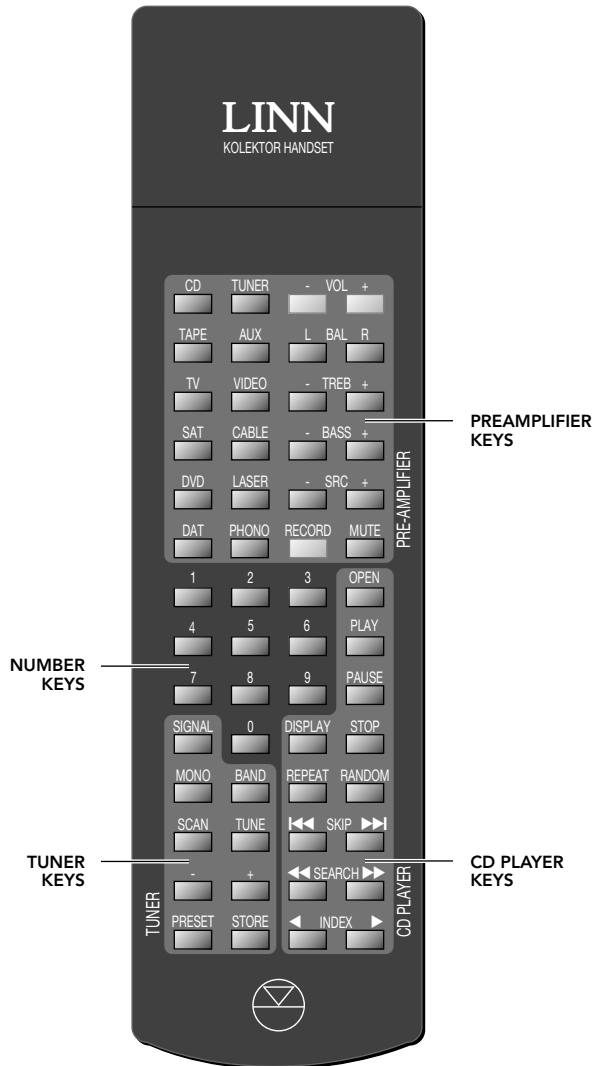




The function of each key is explained in the following table:

Press this key	To do this
	Mute or unmute the sound.
<b>SRC-</b> and <b>SRC+</b>	Select the previous/next source.
<b>RECORD</b>	Lock and unlock the current input to avoid accidentally changing the input while recording.
<b>VOL-</b> and <b>VOL+</b>	Adjust the volume.
	Select the bass.
	Select the balance.
	Select the treble.
and	Adjust the bass, balance, or treble selection.

# Using the handset



The KOLEKTOR is supplied with a handset for remote control, and this provides access to all of the functions available from the front panel. In addition it provides keys to allow you to select each of the sources directly with a single key press.

The keys are arranged into logical groups, and the illustration opposite shows the function of each group of keys.

The keys on the lower half of the handset allow you to control a Linn CD player or tuner. The source operated by the number keys depends on which type of source was last controlled by the handset. If the number keys appear not to work, first press a Linn CD player or tuner key to indicate which source you want to control.

Note that you can configure the KOLEKTOR Preamplifier so that it will automatically select the appropriate input if you use the handset to control a Linn CD player or tuner. For more information about selecting this option see U4 in *User options*, page 24.

---

## Switching on and off

### To switch on

To switch the KOLEKTOR on press the power button on the front panel.



When you first switch on the KOLEKTOR the display shows the name of the currently selected source and the input number it uses.

To customise the display operation see U2, U9, and U10 in *User options*, page 24.

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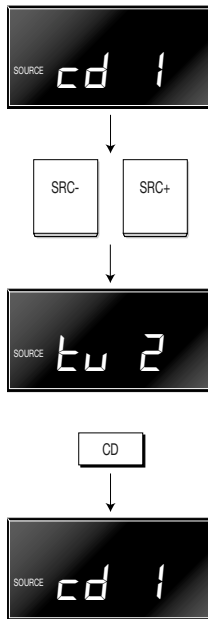
## Selecting a source

The KOLEKTOR is initially set up to provide the following 10 sources:

Input	Display	Handset button	Description
1	cd	CD	CD player
2	tu	TUNER	Tuner
3	tP	TAPE	Tape deck
4	Au	AUX	Auxiliary
5	tn	TV	Television
6	cr	VIDEO	Video Cassette Recorder
7	St	SAT	Satellite
8	cb	CABLE	Cable
9	dd	DVD	DVD player
10	Ld	LASER	LaserDisc player



If you prefer you can configure each input to use any of 12 different display names and handset buttons. For more information see *Configuring the inputs*, page 19.



### To select a source

Press **SRC-** or **SRC+** (front panel or handset) until the display shows the source you want to select, or hold down **SRC-** or **SRC+** to step quickly between sources.

When you step between inputs the volume will fade down and then back up. If the volume is becoming too high, pressing **VOL+** or **VOL-** will immediately stop the volume fading up.

### To select a source directly from the handset

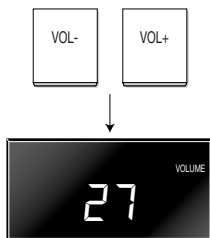
Press the appropriate source key; eg **CD**.

If you have given several sources the same name, pressing the corresponding source key will step through those sources in sequence. For example, if you have set up two CD players connected to inputs 1 and 2, pressing the **CD** handset button will select them in turn, and the display will show *cd 1* and *cd 2*.

---

## Changing the volume

The volume, balance, bass, and treble settings are normally the same for all inputs. They are restored to their previous settings when you switch the KOLEKTOR on, with the volume limited to 15. If you wish to change this see U1, U3, and U5 in *User options*, page 24.

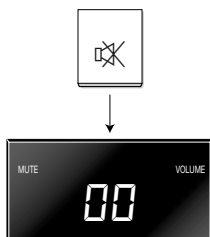


### To change the volume


Press **VOL-** or **VOL+** (front panel or handset), or hold down the corresponding key to decrease or increase the volume continuously.

You can change the volume in precise steps of 1dB from 0 to 60.


To display the current volume setting press either key briefly.



### To mute the sound

Press  (front panel) or **MUTE** (handset).

The **MUTE** indicator will be lit, and the sound will be muted.




To unmute the sound press  (front panel) or **MUTE** (handset) again. The sound will also be unmuted if you press an input or volume key.

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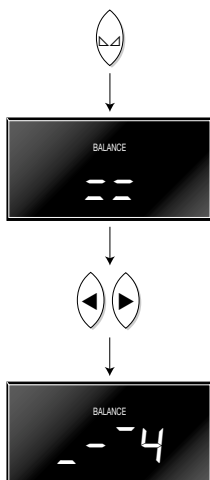
## Changing the balance

The balance can be changed in 19 steps from fully left to fully right.

### To change the balance

Press  (front panel) to display the current balance setting. Then use  and  (front panel) to set the balance as required.

Alternatively press **BAL L** or **R** (handset).



While you are adjusting the balance the display will show the current balance setting, and the **BALANCE** indicator will be lit:




FULLY LEFT



CENTRE POSITION



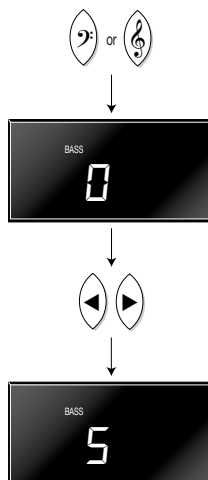
FULLY RIGHT

While you are adjusting the balance press  to restore the balance towards the centre position.





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## Changing the bass and treble

The KOLEKTOR has individual bass and treble controls to allow you to adjust the sound to suit a wide range of speakers, sources, and room acoustics.





### To change the bass or treble

Press  or  (front panel) to display the current bass or treble setting respectively. Then use  and  (front panel) to set the bass or treble as required.

Alternatively press **BASS-** or **BASS+** (handset) to set the bass or **TREB-** or **TREB+** (handset) to set the treble.

You can change the bass and treble from **-7** (maximum cut), through **0** (level), to **+7** (maximum lift).

After adjusting the bass or treble the display will revert to normal after a delay. While you are adjusting bass or treble, pressing  or  will restore the value towards zero.

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## Recording a source

The KOLEKTOR allows you to record from any source to the tape output, and lock the source so that you cannot accidentally select another source while recording.

### To set up a recording

First select the source you want to record using **SRC-** and **SRC+** (front panel or handset) or one of the source keys on the handset.

The currently selected source is always switched to the record output.

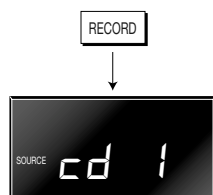
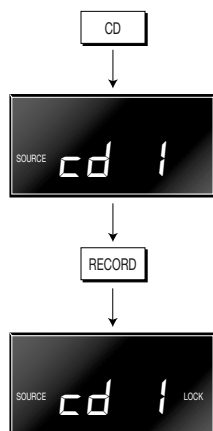
Then lock the input by pressing **RECORD** (front panel or handset). The **LOCK** indicator will be lit to show that the source is locked.

If you attempt to change source while a source is locked the **SOURCE** and **LOCK** indicators will flash to remind you that a recording is active.

### To cancel a recording

Press **RECORD** (front panel or handset) again.

The **LOCK** indicator will be switched off to show that the source is unlocked.



# Customising the KOLEKTOR

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This chapter explains the advanced features of the KOLEKTOR, including configuring the source inputs and the user options.

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## Configuring the inputs

The KOLEKTOR allows you to assign any of 12 alternative source names to each of the ten inputs on the back panel. The name you assign to an input determines the display shown on the front panel, and the handset button used to select the source.

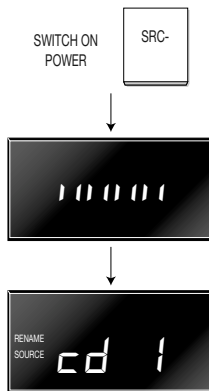
You can assign the same name to two or more different inputs, in which case the inputs will be selected in turn each time you press the corresponding handset button.

### **Using a moving magnet phono source**

If you want to use a moving magnet phono source with the KOLEKTOR Preamplifier connect it to input 1, and change input 1 to the name *Ph*. You cannot give the name *Ph* to any of the other inputs.

### **Removing inputs**

You can assign the name *\_ \_* to any input, to indicate that it is unused. The input will then not appear when you step through the sources with the **SRC-** and **SRC+** buttons. This is very convenient if you have fewer than ten sources.



The procedure for configuring sources is described in the following sections.

### To start configuring inputs

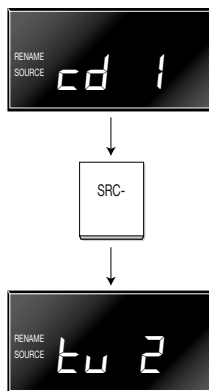
Switch off the KOLEKTOR using the power switch on the front panel.

Press and hold down **SRC-** (front panel) and switch on the power again.

Keep **SRC-** held down until the progress bar display is complete, and the display shows **Sources**.

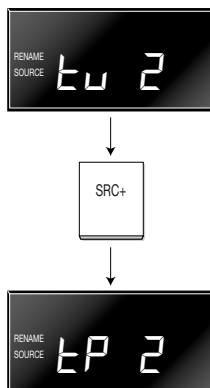
The display will then change to show the source assigned to line input 1.

Note that if you turn off the power while you are naming sources any changes you have made will be ignored, and the previous assignment of names to inputs will be retained.



### To select the input to rename

Press **SRC-** (front panel or handset).

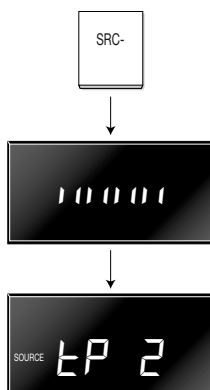


### To change the name of the currently selected input

Press **SRC+** (front panel or handset).

The name will step through the following sequence of options:

Display	Handset button	Description
<i>cd</i>	CD	CD player
<i>tu</i>	TUNER	Tuner
<i>tP</i>	TAPE	Tape deck
<i>Au</i>	AUX	Auxiliary
<i>tn</i>	TV	Television
<i>cr</i>	VIDEO	Video Cassette Recorder
<i>Sat</i>	SAT	Satellite
<i>cb</i>	CABLE	Cable
<i>dd</i>	DVD	DVD player
<i>Ld</i>	LASER	LaserDisc player
<i>dt</i>	DAT	DAT player
<i>Ph</i>	PHONO	Phono
--	None	Unused input



### To save the new input names

Press and hold down **SRC-** (front panel) until the progress bar display is complete.

The KOLEKTOR Preamplifier will then return to normal operation with the new input names you have defined.

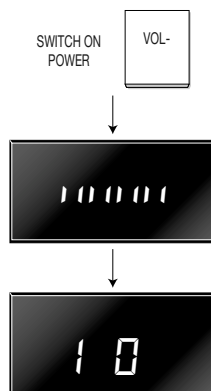
Note that if you release **SRC-** before the progress bar is complete you will return to input naming mode.

## Changing user options

The KOLEKTOR provides 12 user options to allow you to change the way the unit operates to suit your personal preferences.

### To change the user options

Switch off the KOLEKTOR, using the power switch on the front panel.



Press and hold down **VOL-** (front panel) and switch on the power again.

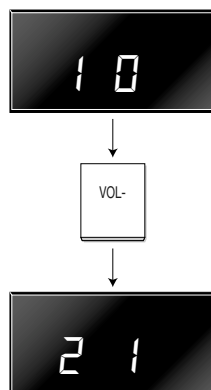
Keep **VOL-** held down until the progress bar display is complete and the display shows **Options**. The display will then change to show the first user option and its value.

In each case the display shows the option number on the left, and the option value on the right.

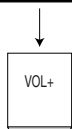
### To choose a specific user option

Press **VOL-** (front panel) until the display shows the number of the user option you want to change, together with its current value.

Each time you press the key the display shows the next user option, stepping back to user option 1 after user option 12.







### To change the value of the currently displayed user option

Press **VOL+** (front panel) to step through the values for the currently displayed user option.

### To save the user options

Press and hold down **VOL-** (front panel) until the progress bar display is complete.

The KOLEKTOR Preamplifier will then return to normal operation with the user options you have set.

## User options

The following table lists the user options provided. In each case the initial value is shown underlined.

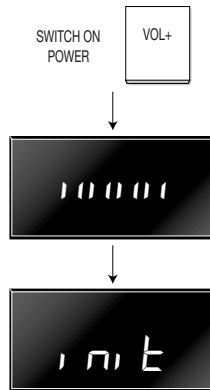
Number	Name	Description	Values
U1	Default Volume	The default volume setting on power up. Ignored if U5 is enabled.	<u>0 = Volume 15</u> 1 = Volume 30
U2	Enable Sleep Mode	Defines the sleep display after 20 seconds.	<u>0 = Disabled</u> 1 = Enabled “ – – ” 2 = Enabled “ ... ”
U3	Auto-Memory (while power is on)	If disabled, the current volume, bass, treble, and balance settings are used for all sources.  If enabled, the volume, bass, treble, and balance settings are retained for each individual source.	<u>0 = Disabled</u> 1 = Enabled
U4	Auto-Listen Source	If enabled, the tuner or CD player source is selected on a tuner or CD player handset command.	<u>0 = Disabled</u> 1 = Enabled
U5	Retain User Amplifier Settings (on power up)	If disabled, then on power up the volume, balance, bass, and treble settings for each source are set to the power down values.  If enabled, then on power up the volume, balance, bass, and treble settings for each source are restored to their individual previous values. The volume is limited to 30.  Overrides U1.	<u>0 = Disabled</u> 1 = Enabled
U6	Enable IR Control	Enables/disables infra-red control of the product.	0 = Disabled <u>1 = Enabled</u>

Number	Name	Description	Values
U7	RC5 Amplifier	Configures the amplifier address.	<u>0 = 16</u>
	Address	Leave at 16 for KOLEKTOR handset.	1 = 19
U8	Enable Unity Gain	Enables an input as a unity gain input. For use with an external surround sound processor.	<u>0 = Disabled</u>
			1 = Input 1
			2 = Input 2
			3 = Input 3
			4 = Input 4
			5 = Input 5
			6 = Input 6
			7 = Input 7
			8 = Input 8
			9 = Input 9
10 = Input 10			
U9	Default Display	Defines the display after the time-out period specified by U10. After a further time-out period U2 defines the display.	0 = Maintain
			1 = Volume
			2 = Balance
			3 = Bass
			4 = Treble
			5 = Source name
			6 = Source number
<u>7 = Source name/number</u>			
U10	Time-Out Period	Specifies the display time-out period, used by U9.	<u>0 = 2 seconds</u>
			1 = 5 seconds
			2 = 10 seconds
			3 = 15 seconds
U11	Volume Control	Defines how volume and balance change on MUTE and source switching.	<u>0 = Fade volume/balance</u>
			1 = Step volume/balance
U12	RS232 Command Interface	Enables/disables RS232 commands.	0 = Disable <u>1 = Enable</u>

---

## Factory default settings

The KOLEKTOR Preamplifier provides a **Reset to Factory Defaults** option which allows you to reset the unit back to its factory settings. This restores the user options to their initial values, and resets the inputs to their initial source names.



### To reset the KOLEKTOR

Switch off the KOLEKTOR, using the power switch on the front panel.

Press and hold down **VOL+** (front panel) and switch on the power again.

Keep **VOL+** held down until the display shows **init**.

The KOLEKTOR Preamplifier will then return to normal operation with the default settings, as shown underlined in the previous table.





# Troubleshooting and maintenance

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## Troubleshooting

Occasionally you may find that your KOLEKTOR fails to respond in the way you expect when you press a key. This will often be because you have pressed a key you did not intend to, which makes your KOLEKTOR behave in an unfamiliar or unexpected way.

The following is a list of symptoms and cures.

### **There is no sound from the speakers!**

Check that the **MUTE** indicator is not lit.

Check that your audio source is actually playing and that the correct source is selected.

### **I cannot change sources!**

Check that the **LOCK** indicator is not displayed. If necessary unlock the source by pressing the **RECORD** button.

### **Poor response to handset commands**

Direct sunlight, halogen lamps, and fluorescent bulbs can seriously interfere with infra-red handset reception. Placing the KOLEKTOR in the vicinity of any of these sources of interference can affect the response to handset commands.

### **Unexpected response to direct source keys or power up commands**

If the KOLEKTOR behaves in an unexpected way during power up, check the values set in your user options. Certain user options may interfere with your required choice so it is a good idea to read the section *User options*, page 24, before changing them.

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## Maintenance

The Linn KOLEKTOR is designed for a long life and any servicing should only be carried out by an authorised retailer.

### **Cleaning**

Dust or finger marks can be removed using a soft damp cloth. Avoid the use of domestic cleaning products.

### **Technical support**

For technical support and product queries/information:

Our address is:     Linn Products Limited  
                          Floors Road  
                          Waterfoot  
                          Glasgow G76 0EP  
                          Scotland

Telephone:           44-(0)-141 307 7777  
UK Helpline:         0500-888909  
E-mail:                helpline@linn.co.uk  
Facsimile:            44-(0)-141- 644-4262  
Web site:             <http://www.linn.co.uk/linn>

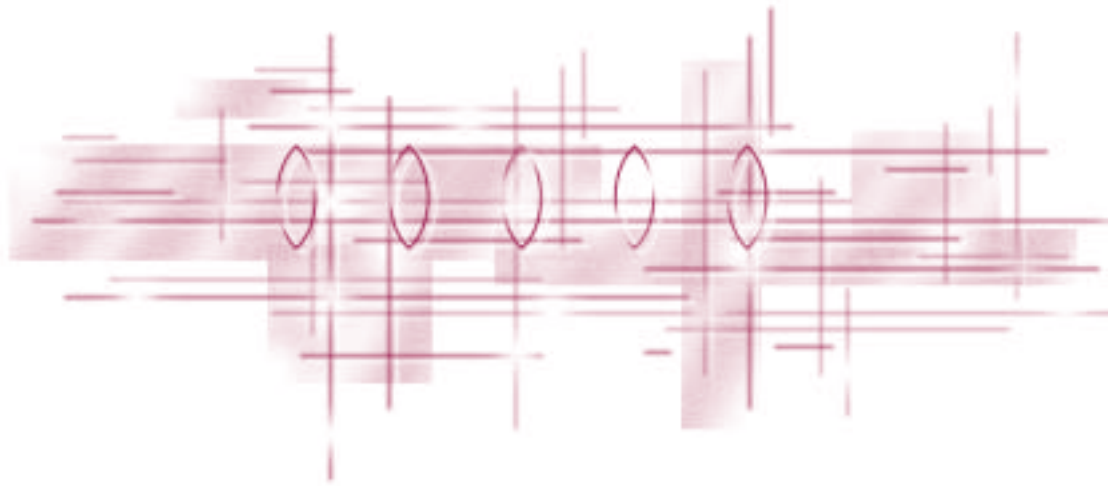


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4540 Southside Boulevard, Suite 402,  
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Facsimile: (904) 645 7275

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# Technical information

## Specifications

### General







<b>Dimensions</b>	80mm x 320mm x 325mm (3.15" x 12.6" x 12.88") (H x W x D)
<b>Weight</b>	4kg
<b>Power consumption</b>	8W maximum
<b>Mains supply fuses</b>	100–115VAC T800mA 220–240VAC T400mA
<b>Mains supply tolerance</b>	±10% with no performance change

### Audio

<b>Input impedance</b>	Input 1: 47k $\Omega$ in parallel with 68pF Inputs 2 to 10: 50k $\Omega$
<b>Maximum input level</b>	2.5V rms
<b>Nominal input levels</b>	Line inputs: 2V rms Phono (MM) input: 2.5mV rms
<b>Output impedance</b>	Line outputs: 300 $\Omega$ Tape output: 100 $\Omega$
<b>Gain</b>	Line inputs: 10dB maximum Phono input: 45dB maximum at 1kHz Tape output: 0dB from line inputs 36dB from phono input at 1kHz
<b>Gain control range</b>	60dB in 1dB steps
<b>Response adjustments</b>	Bass: ±10dB at 40Hz Treble: ±10dB at 20kHz



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-  key 12, 17
-  and  keys 12, 16, 17
-  key 12, 16
-  key 12, 17

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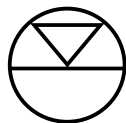
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