



English

Español
Nederlands
日本語



EXOTIK PRE-AMPLIFIER
Owner's Manual

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 operation, 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.

REPLACE THE MAINS FUSE IN THE PLUG WITH ONE OF THE SAME TYPE AND RATING.

DISCONNECT SUPPLY CORD BEFORE CHANGING FUSE.

WARNING

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

SHOCK HAZARD. DO NOT OPEN.

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 is 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. Mains plug.** Use the mains plug to disconnect the product from the mains supply. The mains plug must be accessible at all times. Use the mains switch (if applicable) when the product is not in use.
- 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. Lightning storms.** Unplug this apparatus during lightning storms or when unused for long periods of time.
- 18. Objects and liquid entry.** Do not let objects or liquids fall into the product. Do not expose the product to dripping or splashing. Do not place a vessel containing liquid on top of 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.** Do not 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:

- Pull out the red fuse cover/carrier.
- Remove and dispose of the blown fuse.
- 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.

- Disconnect the plug from the mains supply.
- Cut off the plug and dispose of it safely. A plug with bared conductors is dangerous if engaged in a live socket.
- Only fit a 13 Amp BS1363A approved plug with a 5 Amp fuse.
- 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.

- 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.



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	2002	General requirements Marking Hazardous radiation 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 Protection against electric shock Stability and mechanical hazards Resistance to fire

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	2001	Conducted emissions
EN55013	2001	Absorbed emissions
EN55020	2002	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.

Copyright and Acknowledgements

Copyright © 2004 Linn Products Ltd. First edition April 2004.

Linn Products Limited, Glasgow Road, Waterfoot, Eaglesham, Glasgow, G76 0EQ,
Scotland, United Kingdom

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publisher.

Printed in the United Kingdom.

Trade marks used in this publication: **Linn** and the Linn logo are registered trade marks of Linn Products Limited. **EXOTIK**, **UNIDISK**, **KLIMAX**, **LIMBIK** and **KNEKT** are trade marks of Linn Products Limited.

EXOTIK+DA additional acknowledgements:

"DTS", "DTS-ES" and "DTS 96/24" are trade marks of Digital Theater Systems, Inc.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trade marks of Dolby Laboratories.

The content of this manual is furnished for information use only, is subject to change without notice, and should not be construed as a commitment by Linn Products Limited. Linn Products Limited assumes no responsibility or liability for any errors or inaccuracies that may appear in this manual.

Linn Products Limited disclaims any proprietary interest in trade marks and trade names other than its own.

Contents

Introduction	1	Operation	17
Audio formats (EXOTIK+DA)	1	Standby key	17
Cleaning	1	Selecting a source	17
Connecting	2	Adjusting the audio	17
Unpacking	2	Volume	17
Connecting to the mains supply	2	Balance	17
Positioning	2	Volume trim	17
Back panel	3	Lip Sync Delay (EXOTIK+DA)	18
Front Panel and Handset	4	Surround sound formats	18
Front panel display	4	Midnight Movie mode (EXOTIK+DA)	20
Front panel layout	4	Restoring the original audio settings	20
Handset	5	Record function	21
Setup	6	Technical Specification	22
Connecting	6	Guarantee and Service	23
Setup menus	6		
Using the setup menus	7		
Speaker Setup	7		
Source Setup	9		
Audio Setup	11		
General Setup	12		
Installer Menu	15		
Using the EXOTIK with a Linn UNIDISK player	16		

Introduction

The EXOTIK pre-amplifier has been designed to provide superb audio performance with both two- and multi-channel source material. This product uses technology developed for Linn's award-winning flagship KLIMAX Kontrol pre-amplifier and offers purist audio performance and access to and control of the new generation of multi-channel sound formats.

Two variants of the product offer different levels of functionality to suit your requirements:

The standard EXOTIK is a multi-channel analogue unit supporting bass redirect, stereo sub algorithm and 5.1 to 2 channel downmix.

EXOTIK+DA is an enhanced product which offers all the features of the standard EXOTIK with the addition of a digital audio module for processing of all major audio algorithms, including Dolby Digital 5.1, Pro Logic II, DTS Surround and DTS 96/24.*

The EXOTIK pre-amplifier exemplifies a commitment by Linn to new products which can take advantage of the latest technology and audio formats whilst continuing to support existing Linn customers with improved performance and superb value.

Important notes:

When the unit is in standby, either EXOTIK or EXOTIK+DA is shown on the front panel display to indicate the product variant.

In this manual 'EXOTIK' refers to both the standard and the EXOTIK+DA versions of the product. 'Standard EXOTIK' and 'EXOTIK+DA' refer specifically to the variants.

*The digital audio module is available as an upgrade for the standard EXOTIK.

Audio formats (EXOTIK+DA)

The surround sound algorithms supplied with the EXOTIK+DA include:



Dolby Pro Logic II, Dolby Digital EX



DTS 96/24, DTS-ES

Along with Linn's proprietary LIMBIK algorithm.

Note:

A full list of the algorithms is detailed in the *Surround sound formats* section of the *Operation* chapter.

Cleaning

Disconnect the EXOTIK from the power supply before cleaning. Remove dust and fingerprints with a soft, dry cloth. Avoid using domestic cleaning products on the unit.

Connecting

This chapter explains how to install the EXOTIK pre-amplifier into your hi-fi/AV system.

Unpacking

The EXOTIK is supplied with the following accessories:

- luminescent handset with booklet
- 2 x R03 (AAA) batteries for the handset
- 1 pair of black interconnect cables
- RS232 lead (for connecting the EXOTIK to a Linn UNIDISK player to allow communication between the two units)
- mains lead
- this manual

We recommend you retain the packaging for reuse in case you need to transport the unit at any time.

Connecting to the mains supply

Manual voltage selection is not required as the EXOTIK operates from any mains AC power. There are no user-replaceable fuses inside the unit. The mains lead supplied may be fitted with a fused plug according to local regulations. If this is the case, always replace this fuse with another of the same type and rating.



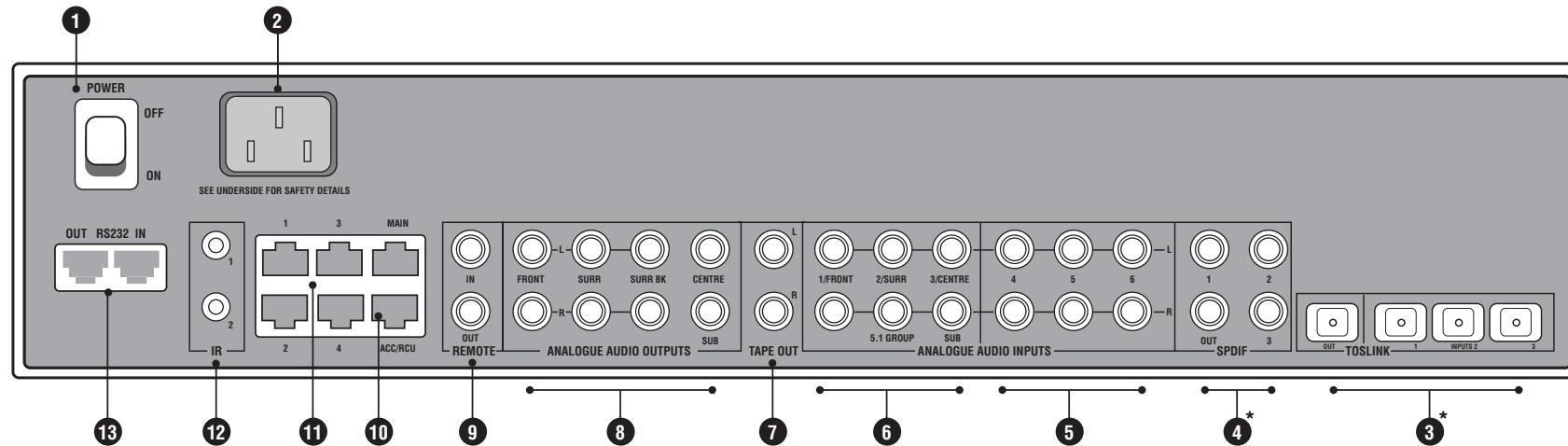
The EXOTIK must always be earthed when connected to the mains supply. Use the earthed mains lead supplied. Never use an unearthed plug or adapter with this unit.

Positioning

You can locate your EXOTIK anywhere you find convenient (including in a 19" rack), but there are a few simple points to note regarding positioning:

- The IR sensor that receives the handset signals is quite sensitive, so the unit should be kept out of direct sunlight to avoid false operation. The IR beam from the handset will pass through semi-opaque glass so operation behind, for example, smoked-glass cabinet doors is possible.
- Never block the ventilation slots on the top and sides of the unit.
- The unit should be protected from anything that generates significant amounts of heat, such as radiators or power amplifiers.

Back panel



Connector group name: Connector marking	Connection function	Connector type
1 OFF, ON	Mains power switch	-
2 No name or marking	Mains power inlet	IEC
3 * TOSLINK: OUT, INPUTS 1 to 3	One optical digital audio output and three inputs	4 x TOSLINK
4 * SPDIF: OUT, INPUTS 1 to 3	One electrical digital audio output and three inputs	4 x RCA
5 ANALOGUE AUDIO INPUTS: 4 L-R, 5 L-R, 6 L-R	Three stereo analogue L-R audio inputs	6 x RCA
6 ANALOGUE AUDIO INPUTS: 5.1 GROUP - 1/FRONT L-R, 2/SURR L-R, 3/CENTRE L, SUB R	One 5.1 analogue audio input or three stereo analogue L-R audio inputs	6 x RCA
7 TAPE OUT: L-R	One analogue L-R output for connection to a recording device e.g. DAT recorder	2 x RCA

*EXOTIK+DA

Connector group name: Connector marking	Connection function	Connector type
8 ANALOGUE AUDIO OUTPUTS: FRONT L-R, SURR L-R, SURR BK L-R, CENTRE, SUB	One 7.1 analogue audio output. The SURR outputs are for connection to the two surround loudspeakers in a 5.1 system. The SURR BK outputs are for connection to the two additional loudspeakers in a 7.1 system - located at the rear of the room. For two-channel systems, use the FRONT outputs (and SUB if required) only	8 x RCA
9 REMOTE: IN, OUT	RC5 in/out local loop for use in a KNEKT system	2 x RCA
10 ACC/RCU	For installing the EXOTIK in a KNEKT system or for connection to an infrared repeater	1 x RJ45
11 1 to 4, MAIN	Used if the EXOTIK is part of a KNEKT system	5 x RJ45
12 IR: 1, 2	Pass IR commands to auxiliary devices	2 x 3.5 mm jack
13 RS232: IN, OUT	Pass control instructions to and from the EXOTIK. The OUT connection is used if you want to let the EXOTIK control another device e.g. a Linn UNIDISK player. The IN connection is used if you want to control the EXOTIK from a third-party home theatre controller	2 x RJ12



Switch off the EXOTIK before connecting plugs to, or disconnecting plugs from, the back panel to avoid generating an electrical surge that may damage the unit or other components of your AV system.

Using the EXOTIK with a Linn UNIDISK player

For information on how to connect and set up your EXOTIK to a Linn UNIDISK player, see the section at the end of the *Setup* chapter.

Front Panel and Handset

Front panel display

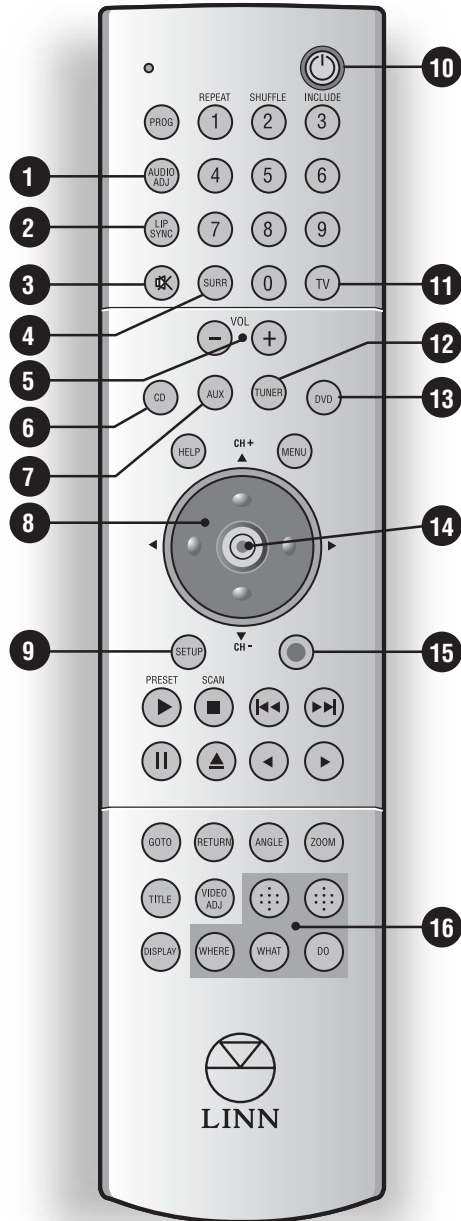
The front panel display shows you information regarding what you are listening to. The current volume, current source, or both can be displayed along with the input audio signal and processing algorithm.

The display also shows the setup menus and other information depending on the current operation.

Front panel layout



- ❶ **Front panel display**
- ❷ **SELECT** Selects/executes options and certain commands. Used for accessing Setup Menus
- ❸ **SOURCE - / +, ◀ / ▶** Change source, for adjusting settings
- ❹ **⏻ (standby)** Brings unit out of, or puts into, standby mode
- ❺ **VOLUME - / +, ▾ / ▴** Adjust the volume level, navigate setup menus and adjust settings



Handset

- 1 **AUDIO ADJ** Adjusts loudspeaker balance and trim
- 2 **LIP SYNC** Adds time delay to the audio signal*
- 3 **🔇 (mute)** Mutes/unmutes the audio output
- 4 **SURR** Selects a surround sound format
- 5 **VOL - / +** Adjust the volume level
- 6 **CD** Selects a CD source
- 7 **AUX** Selects an auxiliary source
- 8 **▲ ▼ ◀ ▶** For navigating setup menus and adjusting settings
- 9 **SETUP** Enters/exits the setup menus
- 10 **⏻ (standby)** Brings unit out of, or puts into, standby mode
- 11 **TV** Puts handset into TV mode
- 12 **TUNER** Selects a tuner source
- 13 **DVD** Selects a DVD source
- 14 **'enter'** Selects/executes options and certain commands. Is used for accessing Setup Menus
- 15 **Ⓞ (record)** For setting up a record path
- 16 **KNEKT keys** Used if the unit is installed in a KNEKT system

Keys and functions not listed above do not function with the EXOTIK but may with other Linn products.

Note:


If your EXOTIK is not responding as expected to handset keys, it is likely that the handset is in TV mode. To correct this press any of the source keys (DVD, CD, TUNER or AUX) on the handset.

*EXOTIK+DA

Setup

Connecting

The first stage in setting up your EXOTIK is to connect your sources, power amp(s) and other peripheral devices to the EXOTIK.

1. Ensure your EXOTIK and all components that you will be connecting to the EXOTIK are disconnected from the mains supply.
2. Connect your source components, power amp(s) and any communication/control devices you wish to use, referring to the back panel diagram in the *Connecting* chapter.
3. Connect the EXOTIK to the mains supply and turn the unit on using the switch on the back panel. The front panel will display EXOTIK or EXOTIK+DA, depending on your unit.
4. Press the  key on the front panel or handset.

The main stage in setup is configuring the EXOTIK pre-amplifier to suit your requirements. This is achieved using the setup menus. How to configure the EXOTIK is explained in the rest of this chapter.

Setup menus

The setup menus enable you to configure your EXOTIK for all sources it is connected to, the loudspeakers in your system and much more. To take advantage of your EXOTIK's features, please take the time to configure your unit correctly.

The setup menus are divided into four categories and are accessed via the MAIN MENU:

SPEAKER SETUP

For configuring the unit for the number and size of the loudspeakers in your system and for calibrating their volume level. (EXOTIK+DA: also for setting the distance of your loudspeakers from your listening position.)

SOURCE SETUP

For configuring sources on the unit.

AUDIO SETUP

For configuring the audio output of the unit.

GENERAL SETUP

For adjusting the general setup of the unit.

There is also a UNIDISK SETUP item in the MAIN MENU for accessing the setup menus on a Linn UNIDISK player if one is present (see *Using the EXOTIK with a Linn UNIDISK player*, end of this chapter).

In addition, the EXOTIK features an INSTALLER MENU for saving the configuration of the unit as set in the above menus and restoring the factory defaults. For full information see *Installer menu*, this chapter.

Using the setup menus

To access the setup menus:

Either

- Press **SETUP** on the handset.

or

- Hold **SELECT** on the front panel until MAIN MENU / SPEAKER SETUP is shown on the display.



To access the installer menu:

- Hold **SETUP** on the handset or **SELECT** on the front panel until INSTALLER MENU is shown on the display (approximately 5 seconds).

To navigate through the menus and options:

- Use the Δ / ∇ keys on the handset or front panel. Arrows on the display indicate which key(s) can be used.

To make a selection:

- Press 'enter' on the handset, or **SELECT** on the front panel.

To exit from the setup menus:

- Press **SETUP** on the handset (if changes have been made you will be prompted to save or not save the changes).

Speaker setup



SIZE

Accesses the SPEAKER SIZE sub-menu.

For all loudspeakers in your system (except a subwoofer) you must inform the EXOTIK whether the speakers are LARGE or SMALL. These settings refer to the frequency response of the loudspeakers, not to their physical size.

Standard EXOTIK

For loudspeakers that operate below 100 Hz, select **LARGE**.

For loudspeakers that do not operate below 100 Hz, select **SMALL**. Frequencies in the audio signal that are below 100 Hz will be routed to a subwoofer, if present, or any LARGE loudspeakers, if not.

SMALL FREQUENCY (EXOTIK+DA)

Select the operating frequency that your limited bass response (SMALL) loudspeakers operate above. Frequencies in the audio signal that are below the selected option will be routed to a subwoofer, if present, or any full-range loudspeakers (LARGE), if not.

Options: **40 Hz, 60 Hz, 80 Hz, 100 Hz, 120 Hz**

Default setting: **80 Hz**

FRONT*

Large front speakers (full-range frequency response), set to **LARGE**.
Small front speakers (limited bass response), set to **SMALL**.

Default setting: **LARGE**

*For two-channel systems, use the FRONT item and set CENTRE, SURROUND and SURROUND BACK to **NONE**.

CENTRE

Large centre speaker (full-range frequency response), set to **LARGE**.

Small centre speaker (limited bass response), set to **SMALL**.

No centre speaker, set to **NONE**.

Default setting: **LARGE**

SURROUND

Large surround speakers (full-range frequency response), set to **LARGE**.

Small surround speakers (limited bass response), set to **SMALL**.

No surround speakers, set to **NONE**.

Default setting: **LARGE**

SURROUND BACK

Large surround back speakers (full-range frequency response), set to **LARGE**.

Small surround back speakers (limited bass response), set to **SMALL**.

No surround back speakers, set to **NONE**.

Default setting: **LARGE**

SUBWOOFER

If you have connected a subwoofer, set to **YES**.

If you have not connected a subwoofer, set to **NO**.

Default setting: **YES**

Select **SAVE** to save your changes and return to the SPEAKER SETUP menu.

Select **BACK** to return to the SPEAKER SETUP menu without saving changes.

Select **EXIT** to leave setup (if changes have been made and SAVE has not been selected, you will be prompted to save or not save the changes).

DISTANCE (EXOTIK+DA)

Accesses the SPEAKER DISTANCE sub-menu.

DISTANCE UNITS

Select the units for loudspeaker distance measurements.

Options: **FEET, METRES**

Default setting: **FEET**

SPEAKER DISTANCE

In order to ensure that sound from all loudspeakers in your system reaches you at the same time, you must inform the EXOTIK+DA as to the distance each speaker is from your seating position. The EXOTIK+DA will then add a time delay to the appropriate speakers.

Set the distance from your seating position for all speakers in your system.

Range: **1 ft (0.3 m) to 27 ft (8.2 m)**

Default setting: **6 ft (1.8 m)**

Select **SAVE** to save your changes and return to the SPEAKER SETUP menu.

Select **BACK** to return to the SPEAKER SETUP menu without saving changes.

Select **EXIT** to leave setup (if changes have been made and SAVE has not been selected, you will be prompted to save or not save the changes).

CALIBRATION

Accesses the SPEAKER CALIBRATION sub-menu.

SPEAKER CALIBRATION

If your audio system uses more than two loudspeakers and a subwoofer, you can use the speaker calibration feature to ensure that the volume level that reaches your seating position is the same for each loudspeaker (speaker calibration is not required for two-channel systems). Calibration can be done by ear or by using an SPL (Sound Pressure Level) meter.

There are differences in the method of performing loudspeaker calibration on a standard EXOTIK and an EXOTIK+DA:

Standard EXOTIK

You will need a test disc that contains a tone signal for each loudspeaker in your system. Your specialist Linn retailer may be able to supply you with a suitable disc.

To perform speaker calibration:

- Add a Linn UNIDISK player (or other multi-channel disc playing source) to the EXOTIK by following the source setup instructions in the next section.
- Exit setup and change source to the UNIDISK/multi-channel disc playing source.
- Re-enter setup and return to the SPEAKER CALIBRATION sub-menu.
- Play the tracks on the test disc for speaker calibration while selecting the appropriate loudspeakers from the EXOTIK's menu.
- If the tone signal coming from a particular loudspeaker is louder or quieter than from the other loudspeakers, use the Δ / ∇ keys on the handset to trim the volume as required.

EXOTIK+DA

To perform speaker calibration:

- Select **REF. CALIBRATION LEVEL**. Adjust the reference calibration level so that the signal you hear is at a comfortable listening level (or reaches a preset level on an SPL meter).
- Select **NOISE**. Choose either **WHITE** (equal energy per frequency, bright sounding) or **PINK** (equal energy per octave, richer in lower frequencies than White).
- Select **START**. The signal will move round the loudspeakers in your system in a clockwise direction and will be indicated on the display.
- When the signal reaches a loudspeaker which is louder or quieter than the other loudspeakers, use the Δ / ∇ keys on the handset to trim the volume as required. A few seconds after the Δ or ∇ key has been released the signal will continue its clockwise direction.

- To stop loudspeaker calibration, press **SETUP** on the handset or **SELECT** on the front panel.

Range: **-15 dB to 15 dB** (in 0.5 steps)

Default setting: **0 dB**

Select **SAVE** to save your changes and return to the SPEAKER SETUP menu.

Select **BACK** to return to the SPEAKER SETUP menu without saving changes.

Select **EXIT** to leave setup (if changes have been made and SAVE has not been selected, you will be prompted to save or not save the changes).

Select **BACK** to return to the MAIN MENU.

Select **EXIT** to leave Setup.

Source setup



SOURCE SETUP
 ∇ ANALOG GROUP

Select the back panel input you wish to use with your source component, or select ADD UNIDISK* if you are adding a Linn UNIDISK player as a source component.** You must complete the source setup procedure for each source component you are connecting to your EXOTIK.

Options: **ANALOG GROUP, ANALOG 1 to 6, SPDIF 1 to 3*, TOS (TOSLINK) 1 to 3*, KNEKT, ADD UNIDISK***

* EXOTIK+DA

**If you wish to connect a UNIDISK player to a standard EXOTIK use the ANALOG GROUP inputs (for multi-channel systems) or a stereo input pair (for two-channel systems).

NAME

You are able to give the source a name which will be shown on the display when that source is selected.

To change the flashing character:

- Repeatedly press or hold \blacktriangle / \blacktriangledown on the handset or front panel.

The following characters are available: A to Z, 0 to 9, space.

To move to the next or previous character:

- Press \blacktriangleright or \blacktriangleleft .

When you have finished inputting the name, press 'enter' or **SELECT**.

Default setting: (name of back panel connector or 'UNIDISK')

Note:

The name can be up to twelve characters long.

The next two items are for use if ADD UNIDISK has been selected from the source setup options. For the other source setup options these items will not be shown.

ANALOG INPUT

Select which analogue input(s) is/are connected to the UNIDISK player.

Options: **ANALOG GROUP, ANALOG 1 to 6**

Default setting: **ANALOG GROUP**

DIGITAL INPUT

Select which digital input is connected to the UNIDISK player.

Options: **SPDIF 1 to 3, TOSLINK 1 to 3**

Default setting: **SPDIF 1**

TYPE

Select a type for this source. This is the type that appears on Linn learning handsets.

Options: **AUX, CD, DVD*, TUNER, PHONO 1/LASER, PHONO 2/AUX, TAPE 1, TAPE 2/VCR, DAT, TV, CABLE, SATELLITE, NONE.**

Default setting: **AUX** (Except ANALOG 2 and 3, and KNEKT which are set to NONE)

*DVD is the only option available for the ADD UNIDISK source.

Notes:

For ease of use with the handset supplied with the unit, you may wish to restrict the type selected to either CD, DVD, TUNER or AUX, to allow direct source selection.

If you do not wish to use a particular back panel input, set Type to **NONE**. This means that when you are using the **SOURCE +/-** keys on the front panel to select a source, inputs set to NONE will not be seen.

VOLUME OFFSET

Volume offset is for adjusting the volume of a source in comparison to other sources. You may want to adjust the volume offset for a source if, for example, your tuner sounds quieter than your CD player when played at the same volume setting.

Range: **-15 to 15** (in 0.5 steps). No volume offset equals 0.

Default setting: **0**

SURROUND CHANNELS

If you are setting up the ANALOG GROUP source or are adding a Linn UNIDISK player and have a 7.1 speaker configuration, you are able to select whether to use your side surround or back surround speakers when listening to a 5.1 channel audio source.

Set to **SURROUND** to send the surround signal to your side surround speakers. Set to **SURROUND BACK** to send the surround signal to your back surround speakers.

Default setting: **SURROUND**

Select **SAVE** to save your changes and return to the SOURCE SETUP menu.

Select **BACK** to return to the SOURCE SETUP menu without saving changes.

Select **EXIT** to leave setup (if changes have been made and SAVE has not been selected, you will be prompted to save or not save the changes).

Select **BACK** to return to the MAIN MENU.

Select **EXIT** to leave setup.

Audio setup



VOLUME RATE

Set the speed at which the EXOTIK changes volume when **VOL +/VOL -** is pressed.

Range: **1/10** (slowest) to **10/10** (fastest)

Default setting: **6/10**

MUTE RATE

Set the speed at which the EXOTIK mutes or unmutes the volume when **M** is pressed, or when changing sources.

Range: **1/10** (slowest) to **10/10** (fastest)

Default setting: **6/10**

VOLUME LIMIT

Set the maximum volume level of the EXOTIK.

Range: **0** to **100** (in 0.5 steps)

Default setting: **100**

VOLUME PRESET

Set the volume level of the EXOTIK when it is brought out of standby. The setting cannot be higher than the Volume Limit setting (see above).

Range: **0** to **100** (in 0.5 steps)

Default setting: **40**

MIDNIGHT MOVIE (EXOTIK+DA)

Midnight Movie mode optimises the audio of any source for listening at a reduced volume.

Midnight Movie mode increases the level of quiet sections (e.g. whispered dialogue in a movie) and reduces the peaks of loud sections (e.g. action scenes in a movie) but without restricting the overall dynamics of the original audio signal.

It is turned on/off by pressing and holding **SURR** on the handset.

Options: **LOW** (least effective), **MEDIUM**, **HIGH** (most effective)

Default setting: **LOW**

DOLBY PRO LOGIC II MUSIC (EXOTIK+DA)

Dolby Pro Logic II is an audio signal processing algorithm that converts a two-channel audio signal to a five-channel audio signal.

Dolby Pro Logic II Music is a mode of Dolby Pro Logic II that is particularly suited to music. It features three user-adjustable parameters that are accessed from this item.

CENTRE WIDTH

This parameter allows adjustment of the audio signal between the centre loudspeaker and front left and right loudspeakers.

If set to **0** (no spreading) all of the audio signal for the centre channel is sent to the centre loudspeaker.

If set to **3** (neutral) a portion of the centre channel signal is also sent to the left and right front loudspeakers.

If set to **7** (Full Phantom) all of the centre channel signal is split evenly between the front left and right loudspeakers.

Range: **0 to 7**

Default setting: **3**

PANORAMA CONTROL

If set to **ON**, the Panorama control extends the audio signal from the front left and right loudspeakers to include the surround left and right loudspeakers. This adds a "wraparound" effect to the sound.

Options: **ON, OFF**

Default setting: **OFF**

DIMENSION CONTROL

This parameter allows you to shift the balance between the front and rear loudspeakers. Positive values move the sound towards the front, negative values towards the rear.

If a recording is too spacious or strong from the surround loudspeakers it can be shifted "forward" to get a better balance. A stereo recording can be shifted "backward" to make the sound more enveloping.

Range: **-3** (most rear) to **3** (most front)

Default setting: **0** (neutral)

Select **SAVE** to save your changes and return to the AUDIO OPTIONS menu.

Select **BACK** to return to the AUDIO OPTIONS menu without saving changes.

Select **EXIT** to leave setup (if changes have been made and SAVE has not been selected, you will be prompted to save or not save the changes).

Select **SAVE** to save your changes and return to the MAIN MENU.

Select **BACK** to return to the MAIN MENU without saving changes.

Select **EXIT** to leave setup (if changes have been made and SAVE has not been selected, you will be prompted to save or not save the changes).

General setup



DISPLAY INTENSITY

Set the brightness of the front panel display.

Options: **LOW, MEDIUM, HIGH**

Default setting: **MEDIUM**

DISPLAY CONTENT

Set what information you want displayed on the unit's front panel when it is in normal operation.

Options: **LAST USED** (source or volume), (current) **SOURCE AND VOLUME, VOLUME,** (current) **SOURCE**

Default setting: **SOURCE AND VOLUME**

DISPLAY TIMEOUT

Set the time that new volume or source information is shown for before unit returns to its Display Content (see above).

Range: **1 SEC. to 10 SEC.**

Default setting: **4 SEC.**

SELECTION TIMEOUT

When the source is changed, this item sets the time the EXOTIK takes before the new source is selected.

Range: **1 SEC. to 10 SEC.**

Default setting: **4 SEC.**

SLEEP TIMEOUT

Set the time elapsed before the front panel display enters sleep mode (i.e. shows three dots) after a key on the front panel or handset is pressed.

Options: **NEVER SLEEP, IMMEDIATE, 30 SEC., 5 MINS.**

Default setting: **NEVER SLEEP**

STARTUP SOURCE

Set the source the unit selects when brought out of standby.

Options: **LAST USED, NONE, (any of the source inputs)**

Default setting: **LAST USED**

STANDBY RECORD FROM

You can record from a source component to a recording device through the EXOTIK, even if the EXOTIK is in standby mode.

Set which source configuration you want the EXOTIK to select when it is in standby.

Options: **LAST USED, NONE, (any of the source inputs), AS KNEKT***

Default setting: **LAST USED**

KNEKT

If your EXOTIK is installed in a Linn KNEKT multi-room system, select the appropriate setting. If your EXOTIK is not installed in a KNEKT system, select **NONE**.

Options: **NONE, MAIN ROOM, LOCAL ROOM, INTERSEKT**

Default setting: **NONE**

ACCESSORY SOCKET

Define the use of the accessory (ACC/RCU) socket on the back panel.

Options: **RCU*** (KNEKT Room Control Unit), **IR** (Infrared Repeater)

Default setting: **RCU**

PRODUCT IR

Enable or disable the infrared receiver on the front of the unit.

Options: **ENABLE, DISABLE**

Default setting: **ENABLE**

*For use with Linn KNEKT systems.

RS232 EVENTS

If set to **ENABLE**, the unit passes information regarding its internal status to an external device that accepts RS232 data.

Options: **ENABLE, DISABLE**

Default setting: **DISABLE**

RS232 Setup

Accesses the RS232 SETUP sub-menu.

The RS232 Setup sub-menu is for use if the EXOTIK is communicating with other RS232 enabled products (e.g. a third-party controller).

BAUD RATE

Set the baud rate to suit the RS232 protocol being used.

Range: **1200 to 230400** (11 settings)

Default setting: **9600**

PARITY

Set parity to suit the RS232 protocol being used.

Options: **EVEN, ODD**

Default setting: **EVEN**

DATA BITS

Set the data bits to suit the RS232 protocol being used.

Options: **7, 8**

Default setting: **7**

STOP BITS

Set the stop bits to suit the RS232 protocol being used.

Options: **1, 2**

Default setting: **1**

Select **SAVE** to save your changes and return to the GENERAL SETUP menu.

Select **BACK** to return to the GENERAL SETUP menu without saving changes.

Select **EXIT** to leave setup (if changes have been made and SAVE has not been selected, you will be prompted to save or not save the changes).

Select **SAVE** to save your changes and return to the MAIN MENU.

Select **BACK** to return to the MAIN MENU without saving changes.

Select **EXIT** to leave setup (if changes have been made and SAVE has not been selected, you will be prompted to save or not save the changes).

Installer menu

To access the Installer menu:

- Hold **SETUP** on the handset or **SELECT** on the front panel until INSTALLER MENU is shown on the display (approximately 5 seconds).



SAVE AS INSTALLER

After the EXOTIK has been set up you can save the settings by selecting this item. The saved Installer configuration can be restored at any time should the EXOTIK's setup be changed (see below). Any alterations to the product's setup that you wish to keep as a new Installer configuration can be stored by selecting this item, which will overwrite the existing Installer configuration.

RESTORE INSTALLER

If you have made changes to the setup of the EXOTIK that you do not wish to keep, use this option to restore the Installer configuration.

RESTORE FACTORY

Use this option to restore the default settings for all the setup menus.

SOFTWARE REVISION

This item informs the installer as to the version of the software installed on the EXOTIK.

Select **EXIT** to leave the Installer menu (if changes have been made you will be prompted to save or not save the changes).

Using the EXOTIK with a Linn UNIDISK player

There are certain operational benefits available when using the EXOTIK with a Linn UNIDISK player. These benefits are as follows:

Standard EXOTIK

- You are able to use either your EXOTIK's or UNIDISK player's handset without there being a conflict between the two products.
- You are able to access your UNIDISK player's setup menus via the UNIDISK SETUP option in the EXOTIK's Main Menu setup items (i.e. the UNIDISK player's setup menus will appear on the display device it is connected to).

EXOTIK+DA

- When a disc is loaded into the UNIDISK player and the UNIDISK is selected as the source on the EXOTIK+DA, the EXOTIK+DA will automatically switch to the required input for the loaded disc.
- The EXOTIK+DA will choose an appropriate surround sound algorithm for the disc's audio stream.
- You are able to use either your EXOTIK+DA's or UNIDISK player's handset without there being a conflict between the two products.
- You are able to access your UNIDISK player's setup menus via the UNIDISK SETUP option in the EXOTIK+DA's Main Menu setup items (i.e. the UNIDISK player's setup menus will appear on the display device it is connected to).

If you wish to use a Linn UNIDISK player with your EXOTIK, follow the instructions below.

1. Connect the audio outputs you wish to use from the UNIDISK player to the corresponding inputs on the EXOTIK.
2. Connect the video outputs you wish to use from the UNIDISK player to your display device.
3. Connect the RS232 product-to-product lead (supplied with the EXOTIK) from the EXOTIK's RS232 OUT to the UNIDISK player's RS232 IN.
4. Connect the EXOTIK's REMOTE OUT to the UNIDISK player's REMOTE IN (you will require an RCA phono-to-phono lead).
5. Enter User Options on your UNIDISK player.

Set -

Front Panel IR Command/Enable IR Commands to **IGNORED** or **OFF**
 RS232 Events/Enable RS232 Events to **ENABLED** or **ON**
 Baud Rate to **9600**
 (Also, for a UNIDISK SC set Knekt Mode to **SOURCE**.)

6. Exit User Options.
7. Enter the GENERAL SETUP menu on the EXOTIK.
8. Enter the RS232 SETUP sub-menu.

Set -

Baud Rate to **9600**
 Parity to **EVEN**
 Data Bits to **7**
 Stop Bits to **1**


Save settings.

9. Add the UNIDISK in SOURCE SETUP (See *Source setup* earlier in this chapter).

Operation

Standby key



To toggle between standby mode and operation mode:

- Press  on the front panel or handset.

Selecting a source

To select the source you want to watch or listen to:

Either

- Press the appropriate source type key (DVD, CD, TUNER or AUX) on the handset.
- Use the  /  keys to cycle through available sources of that type.
- When the desired source is shown on the front panel display, press '**enter**', or wait and the EXOTIK will select the source automatically.

or

- Repeatedly press the **SOURCE +/-** keys on the front panel. This will cycle through all available sources.
- When the desired source is shown on the front panel display, press **SELECT**, or wait and the EXOTIK will select the source automatically.

Adjusting the audio

Volume

To change the volume:

- Repeatedly press or hold **VOL -/ +** on the front panel or handset.



Volume range is from 0 to 100 (in 0.5 steps).

Balance

To change the balance for all loudspeakers (excluding a centre speaker and/or subwoofer):

- Press **AUDIO ADJ** (adjust) on the handset.

BALANCE is shown on the front panel display.

- Repeatedly press or hold  to shift the balance to the right, or  to shift the balance to the left.



Balance range is from 10 increments to the left to 10 increments to the right, with neutral balance being 0.

Volume trim

This feature is for use in systems that have more than two loudspeakers.

When listening to multi-channel audio or watching a DVD-Video, you may want to adjust the volume level of your centre, surround, back surround loudspeakers or subwoofer without affecting any of the other loudspeakers. This is done by adjusting volume trim.

To change the volume trim:

- Repeatedly press **AUDIO ADJ** (adjust) on the handset until the desired loudspeaker(s) is/are shown on the front panel display.
- Repeatedly press or hold  /  on the front panel or handset to increase/decrease the level of volume trim.

Volume trim range is from -10.0 to 10.0 (in 0.5 steps) with neutral trim being 0.

Note:

The loudspeakers shown when **AUDIO ADJ** is repeatedly pressed is dependent on the number of loudspeakers in your system and the currently selected surround sound format.

Lip Sync Delay (EXOTIK+DA)

You may find with certain DVD-Videos that the movement of the actors' lips and the sound are not synchronized. You can correct this on the EXOTIK+DA using the Lip Sync Delay feature.

To adjust Lip Sync Delay:

- Press **LIP SYNC** on the handset.
- Press **▲ / ▼** to increase/decrease the delay of the audio signal until the picture and audio are synchronized.

Lip Sync Delay range is from 0 to 250 milliseconds.

Notes:

The setting for Lip Sync Delay is retained for that source.

When adding Lip Sync Delay to an analogue source the audio must be converted from the audio domain to the digital domain and back again. For this reason, the minimum delay that can be applied to an analogue source is 5 milliseconds.

Surround sound formats

The EXOTIK+DA is equipped with a wide range of surround sound formats to enhance your audio/home cinema experience. The only surround sound format available on the standard EXOTIK is Stereo Sub.

To change the surround sound format:

- Repeatedly press **SURR** on the handset until the desired format is shown on the front panel display.

The available surround sound formats, and a brief description of each, is as follows:

Surround sound format	Description
Dolby Digital	A standard for storing 5.1 channels of audio signal on to discs such as DVD-Videos
Dolby Digital EX	Spreads the surround speaker portion of a Dolby Digital 5.1 audio signal to two back speakers - converting 5.1 audio to 7.1 audio
Dolby Pro Logic II	Converts any non-surround sound audio signal into a surround sound 5.0 signal
Dolby Pro Logic II Music	Same as Dolby Pro Logic II but is particularly suited to music. Features three user-adjustable parameters that are accessed via the setup menus
DTS Digital Surround	A standard for storing 5.1 channels of audio signal on to discs such as DVD-Videos
DTS 96/24	Same as DTS Digital Surround but offers better audio quality
DTS ES Matrix	Spreads the surround speaker portion of a DTS 5.1 audio signal to two back speakers - converting 5.1 audio to 7.1 audio
DTS ES Discrete	A standard for storing 6.1 channels of audio signal on to discs such as DVD-Videos. On the EXOTIK the extra channel can be spread over two back speakers - converting 6.1 audio to 7.1 audio
DTS 96/24 ES Matrix	Higher quality of DTS Digital Surround with the addition of the surround sound speaker portion of the signal being spread to two back speakers - converting 5.1 audio to 7.1 audio
Phantom	Passes the centre channel portion of a 5.1 or 7.1 audio signal to the front left and right speakers
3 Stereo	Downmixes a 5.1 or 7.1 audio signal and passes it to the front left and right, and centre speakers only

cont.

Surround sound format	Description
Stereo Sub	Downmixes a 5.1 audio signal to a two-channel signal and then routes the signal to the front left and right speakers and subwoofer
MPEG Stereo	A standard for storing two-channel audio in MPEG files
MPEG Surround	A standard for storing surround sound audio in MPEG files
AAC Stereo	A standard for storing two-channel audio
AAC Surround	A standard for storing surround sound audio
Limbik Party	A Linn algorithm that sends essentially the same audio signal to all speakers in your system

Depending on the audio signal coming in to the EXOTIK+DA and the number of speakers in your system, two of the above formats can be combined to provide extra processing e.g. Dolby Digital + Dolby Digital EX will convert a two-channel digital audio signal to 7.1 channels of audio (see table on page 20).

The surround sound formats that are available for the different audio input and signal types, are:

Analogue audio input

	5.1 speakers in system	7.1 speakers in system
Stereo	2.0	2.0
Analog 5.1	5.1	5.1

Two-channel audio input

	Analogue signal	PCM stereo signal	LtRt downmixed signal
Stereo	2.0	2.0	2.0
Dolby Pro Logic II	5.0	5.0	5.0
Dolby Pro Logic II Music	5.0	5.0	5.0
Limbik Party	5.1 & 7.1	5.1 & 7.1	5.1 & 7.1
Stereo Sub	2.1	2.1	2.1

Surround sound audio input

	Dolby	DTS	MPEG	AAC
Stereo	2.0	-	-	-
Phantom	2/2.1	2/2.1	2/2.1	2/2.1
3 Stereo	3/0.1	3/0.1	3/0.1	3/0.1
Stereo Sub	2.1	2.1	2.1	2.1
Dolby Digital	5.1	-	-	-
Dolby Digital + Dolby Digital EX	7.1	-	-	-
DTS Digital Surround	-	5.1	-	-
DTS 96/24	-	5.1	-	-
DTS ES Matrix	-	7.1	-	-
DTS ES Discrete	-	7.1	-	-
DTS 96/24 ES Matrix	-	7.1	-	-
MPEG Stereo	-	-	2.0	-
MPEG Surround	-	-	5.1	-
MPEG Surround + Dolby Digital EX	-	-	7.1	-
AAC Stereo	-	-	-	2.0
AAC Surround	-	-	-	5.1
AAC Surround + Dolby Digital EX	-	-	-	7.1
Limbik Party	5.1 & 7.1	5.1 & 7.1	5.1 & 7.1	5.1 & 7.1

Notes:

The available surround sound formats are dependent on the type of signal being processed.

The default surround sound format for the current audio signal is shown in brackets on the front panel display.

Midnight Movie mode (EXOTIK+DA)

This feature allows you to add compression to any multi-channel or 2-channel analogue source. Adding compression reduces sudden increases in volume such as the sound of an explosion on a DVD-Video.

To switch Midnight Movie mode on/off:

- Press and hold **SURR** on the handset.

When the mode is on, MIDNIGHT MOVIE or M/MOVIE is shown on the front panel display. The amount of compression can be adjusted using the Midnight Movie item in the Audio setup menu (see *Setup* chapter).

Restoring the original audio settings

To reset all the above audio items to their neutral/default settings:

- Press and hold **AUDIO ADJ** on the handset until AUDIO SETTINGS RESET is shown on the front panel display.

Record function

The record function allows you to route a source signal to a recording device such as a VCR or DAT recorder.

The record functions available on your EXOTIK are dependent on whether your unit includes, or does not include the digital audio module (if your unit has the digital audio module EXOTIK+DA is shown on the front panel display when the unit is in standby mode).*

The differences in record functionality between the two variants is shown below:

Standard EXOTIK


Analogue Record Outputs	
Analogue source	Any analogue source can be routed to the analogue outputs

EXOTIK+DA

	Analogue Record Outputs	Digital Record Outputs
Analogue source	Any analogue source can be routed to the analogue outputs	Any analogue source can be routed to the digital outputs
Digital source	Only the digital source currently being listened to can be routed to the analogue outputs (drivers for the digital outputs are disabled)	Only the digital source currently being listened to can be routed to the digital outputs

*The digital audio module is available as an upgrade to the standard EXOTIK.

To set a record path:

- Press the  (record) key on the handset.
- Use the \triangle / ∇ keys to select the source you want to record, then press 'enter'.

Notes on the sources:

NO SOURCE: No record path will be set.

AS KNEKT: When a record path on the EXOTIK is being used, this setting will allow users of a KNEKT Line Driver system to change the source they are listening to (which also changes the record path). To protect a record path, select the required record option. Once recording has finished, reselect the AS KNEKT option.

Source inputs set to NONE will not be shown.

Additional step for an EXOTIK+DA:

- Use the \triangle / ∇ keys to select the record mode you want to use for making the recording, then press 'enter'.

The available record modes are:

Option	Information
LtRt 44.1 kHz LtRt 48 kHz LtRt 88.2 kHz LtRt 96 kHz	Choose the option that suits your recording device's operating frequency. (With these options, multi-channel signals are downmixed to two channels)
LtRt As Input	Output frequency is the same as the input frequency, and multi-channel signals are downmixed to two channels
Bit Perfect	Output frequency is the same as the input frequency and there is no processing of the signal
Analog*	Passes audio signals to the analogue outputs

*Analog is the only record mode available on the standard EXOTIK.

Notes:

The source audio signal is routed to either all of the analogue and/or all of the digital outputs simultaneously. It is not necessary to specify which output you are using.

The available record modes are dependent on whether the input signal is analogue or digital.

For reasons of copyright defence some audio and video discs incorporate protection systems that prevent them from being recorded.

Technical Specification

Electrical

Mains voltage 100-230 Vac @ 50-60 Hz

Physical

Weight 3.5 kg, 7 lb 10 oz

Dimensions 381 (W) x 368 (D) x 80 (H) mm, 15" (W) x 14" (D) x 3" (H)

Signal Interfaces - Inputs

Type	Connector	Level	Impedance	Notes
Digital electrical (SPDIF)*	3 x RCA	500 mVp-p	75 Ω	-
Digital optical*	3 x TOSLINK	-	-	-
Unbalanced	12 x RCA	2 Vrms	10k Ω	Analogue

Signal Interfaces - Outputs

Type	Connector	Level	Impedance	Notes
Digital electrical (SPDIF)*	1 x RCA	500 mVp-p	75 Ω	-
Digital optical*	1 x TOSLINK	-	-	-
Unbalanced	8 x RCA	2 Vrms	330 Ω	Surround outputs
Unbalanced	2 x RCA	2 Vrms	330 Ω	Record outputs

Control Interfaces

Type	Port Name	Pin Connections
RS232	In	Rx = 3, Tx = 2, Ov = 5
RS232	Out	Rx = 5, Tx = 4, Ov = 2

*EXOTIK+DA

Guarantee and Service

This product is guaranteed under the conditions that apply in the country of purchase and your statutory rights are not limited. In addition to any statutory rights you may have, Linn undertake to replace any parts that have failed due to faulty manufacture. To help us, please ask your Linn retailer about the Linn warranty scheme in operation in your country.

In parts of Europe, the United States of America and some other markets, extended warranty may be available to customers who register their purchase with Linn. A warranty registration card is included with the product and should be stamped by your retailer and returned to Linn as soon as possible. Alternatively, register your warranty online at www.linn.co.uk

Warning

Unauthorised servicing or dismantling of the product invalidates the manufacturer's warranty. There are no user serviceable parts inside the product and all enquiries relating to product servicing should be referred to authorised retailers only.

Technical support and information

For technical support, product queries and information, please contact either your local retailer or one of the Linn offices opposite.

Full details of your local retailer/distributor can be found on the Linn website: www.linn.co.uk

Important

- Please keep a copy of the sales receipt to establish the purchase date of the product.
- Please ensure that your equipment is insured by you during any transit or shipment for repair.

Linn Products Limited

Glasgow Road
Waterfoot
Eaglesham
Glasgow G76 0EQ
Scotland, UK

Phone: +44 (0)141 307 7777
Fax: +44 (0)141 644 4262
Helpline: 0500 888909
Email: helpline@linn.co.uk
Website: www.linn.co.uk

Linn Incorporated

8787 Perimeter Park Boulevard
Jacksonville
FL 32216
USA

Phone: +1 (904) 645 5242
Fax: +1 (904) 645 7275
Helpline: 888-671-LINN
Email: helpline@linninc.com
Website: www.linninc.com

Linn Deutschland GmbH

Albert-Einstein-Ring 19
22761 Hamburg
Deutschland

Phone: +49-(0) 40-890 660-0
Fax: +49-(0) 40-890 660-29
Email: info@linngmbh.de
Website: www.linn.co.uk