LINN

KINOS SYSTEM CONTROLLER
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:

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.

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

Contents

Introduction

The KINOS System Controller is an advanced, high-performance, multi-channel AV system controller, offering comprehensive and user-friendly control of any AV system.

Unlike many AV processor products, the KINOS is a genuine system controller that lets you manipulate and control each element of your home entertainment system through a single, clear interface. This advanced product can process a wide variety of quality audio and video standards and offers up to 7.1 channels of audio at an exceptionally high level of performance.

Based on a modular, two-chassis design, the KINOS contains nine circuit boards and provides over sixty sockets for interconnecting your existing audio-visual system; providing extensive control whilst maintaining the performance integrity of high quality source products.

The KINOS incorporates a powerful Linn-designed user interface, first introduced in the KISTO System Controller, for simple set-up, control and storage of customisable user or system profiles. On-screen help ensures that setup and operation are straightforward, intuitive and enjoyable, allowing you to concentrate on what really matters – your music and movies.

With the KINOS System Controller at the heart of your system, seamlessly integrating your audio and video products and your room environment with Linn control and performance, we are confident that your access to home entertainment will be simpler and your enjoyment from it greater.
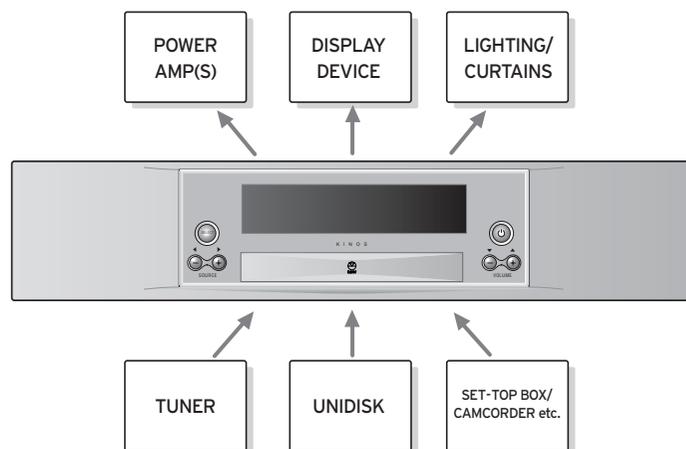
Important note:
When the unit is in standby mode, either KINOS or KINOS+DSP is shown on the front panel display. KINOS+DSP indicates that the unit includes an additional digital signal processor - the Linn Rekord module (see *Record function* in the *Operation* chapter).

Audio formats

The surround sound algorithms supplied with the KINOS include:

 Dolby Pro Logic II, Dolby Digital EX

 Dolby Headphone

 DTS 96/24, DTS-ES

Along with Linn's proprietary LIMBIK algorithm.

Note:
Once your KINOS is set up with your display device, you can view a full list of the algorithms by pressing **SURR** (surround) on your handset, then **HELP** – see *Help feature* in the *Operation* chapter.

Cleaning

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

Front Panel and Handset

Front panel display

The front panel display shows you information regarding what you are watching and 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
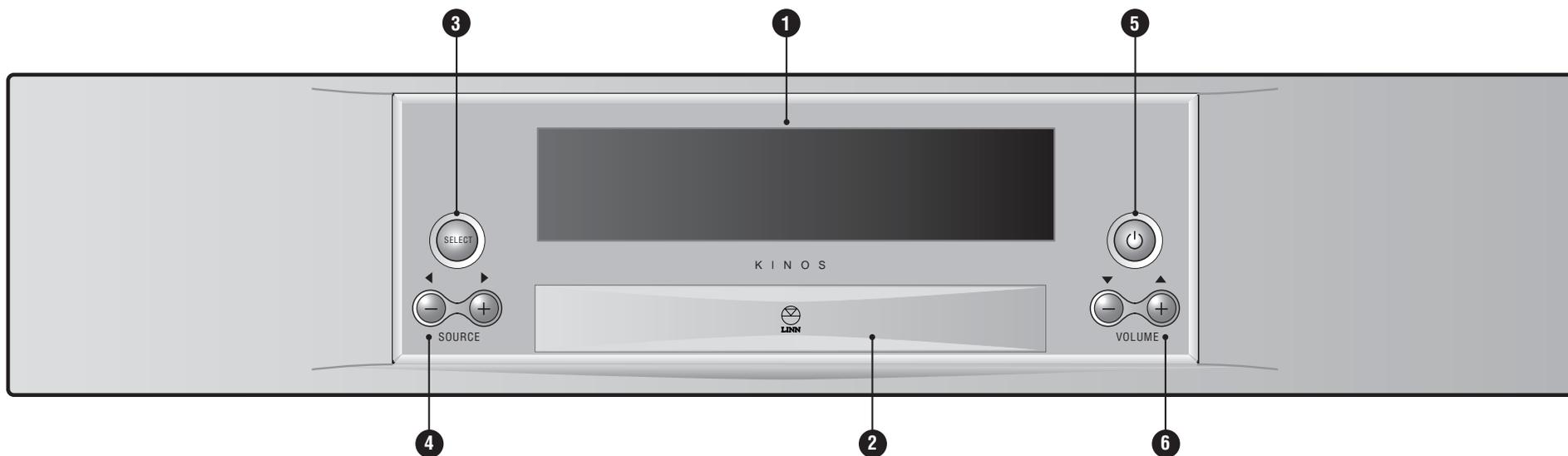
1 **Front panel display**

2 **Door** Covers front panel connectors

3 **SELECT** Selects/executes options and certain commands. Used for accessing setup menus

4 **SOURCE - / +,** ◁/▷ Change source, adjust settings

5 ⏻ **(standby)** Brings unit out of, or puts into, standby mode

6 **VOLUME - / +,** △/▽ Adjust the volume level, navigate setup menus and adjust settings

Handset
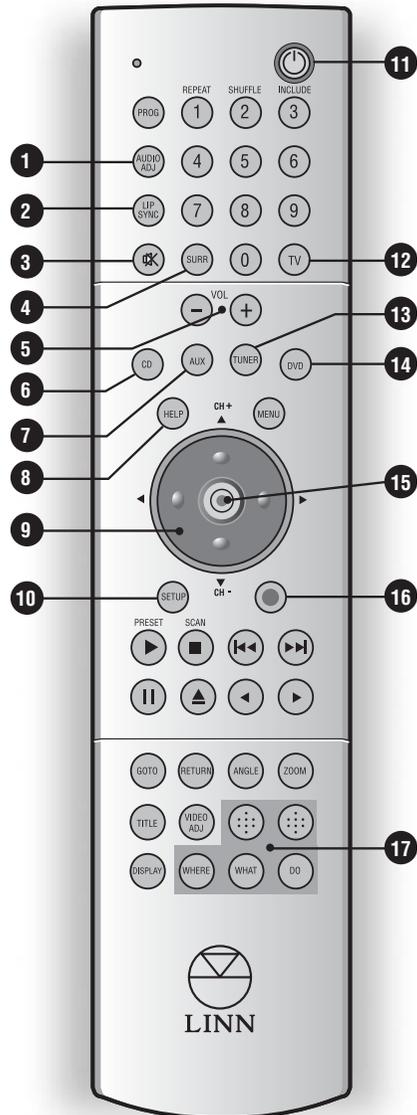
1 **AUDIO ADJ** Adjusts loudspeaker balance and trim

2 **LIP SYNC** Adjusts audio/video synchronization

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 **HELP** Accesses on-screen help information

9 Navigate setup menus and adjust settings

10 **SETUP** Enters/exits the setup menus

11 **(standby)** Brings unit out of, or puts into, standby mode

12 **TV** Puts handset into TV mode

13 **TUNER** Selects a tuner source

14 **DVD** Selects a DVD source

15 **'enter'** Selects/executes options and certain commands. Accesses setup menus

16 **(record)** For setting up a record path

17 **KNEKT keys** Used if the unit is installed in a KNEKT system

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

Note:
If your KINOS 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.

Front panel connectors

The KINOS features connectors on the front panel, allowing you to connect additional AV components such as a camcorder or games console. These connectors are located behind the front panel door.
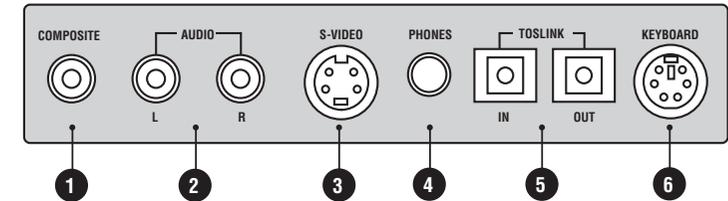
1 **COMPOSITE** Composite video input

2 **AUDIO L/R** Analogue stereo inputs

3 **S-VIDEO** S-video input

4 **PHONES** Headphones socket

5 **TOSLINK IN/OUT** Digital optical audio input and output

6 **KEYBOARD** PS2 keyboard connector

After connecting a source component to the front panel, the KINOS must be correctly configured before the new source can be used. Once a source has been set up you do not need to set it up again.

For full information on setup see the *Setting up the KINOS* in the *Installation* chapter.

Operation

Help feature

To make learning how to operate your KINOS more convenient we have placed operating instructions in the product itself. This information can be accessed by pressing **HELP** on the handset. Help information is shown on your display device (not on the front panel display) and can be accessed at any time while the KINOS is in operation mode.

The information shown depends on the previous key that was pressed. For example, if you press the **LIP SYNC** key then **HELP** within four seconds, information on the Lip Sync Delay feature will appear. If more than four seconds have passed since the previous key press, the Help feature's index page is shown. Use the ▽ key on the handset or front panel to navigate to the required item, then press **'enter'** on the handset or **SELECT** on the front panel. Press ◁ to return to the index page. Press **HELP** again to exit the Help feature.

Note:
After pressing **HELP** allow the KINOS a few seconds to display the correct information.

Standby key

To toggle between standby mode and operation mode:

● Press ⏻ (standby) 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 display device/front panel, press **'enter'**, or wait and the KINOS will select the source automatically.

or

● Use the **SOURCE -/+** keys on the front panel. These will cycle through all available sources.*

● When the desired source is shown on the display device/front panel, press **SELECT**, or wait and the KINOS will select the source automatically.

* To access sources that use the front panel connectors, press **SOURCE -** and **SOURCE +** on the front panel simultaneously. Further simultaneous presses of **SOURCE -** and **SOURCE +** will cycle through the available front panel sources. Front panel sources are not accessible via the handset.

Splitting a source

You are able to split a source and define a different audio or video component to the current one. This is a useful feature if, for example, you want to watch one source while listening to another.

To split a source:

● With the source that you wish to split showing on the front panel display, press the corresponding source key on the handset (e.g. for a DVD player source, press **DVD**).

△ / ▽ arrows appear to the left of the source name. (If you have just selected that source the △ / ▽ arrows will already be showing and the source name will be showing on your display device.)

● Press ▷ on the handset.

The source's audio and video components are shown one above the other.

● Press ▷ to toggle between the audio and video components.

● Use the △ / ▽ keys to change the audio or video source.

● To select the new source component, press **'enter'**.

To return a split source to its previous state:

● Press the appropriate source type key on the handset.

● Press the △ key followed by the ▽ key.

Note:
If there is a certain combination of sources you use frequently, you may find it more convenient to set up the combination as a permanent source configuration in the setup menus (see *Setting up the KINOS* in the *Installation* chapter).

Adjusting the audio

Volume

To change the volume:

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

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' or 'Bal.' is shown on the display device/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 5 to the left, to 5 to the right (in 0.5 steps), with neutral balance being 0.

Volume trim (This feature is for use in systems that have more than two loudspeakers.)

You may find that when watching a DVD-Video or listening to a multi-channel disc, that you want to adjust the volume level of the centre, surround, back surround loudspeakers or subwoofer without affecting any of the other loudspeakers. This is done by trimming the loudspeaker volume.

To trim loudspeaker volume:

● Repeatedly press **AUDIO ADJ** (adjust) on the handset until the desired loudspeaker(s) is/are shown on the display device/front panel display.

● Repeatedly press or hold △ / ▽ on the handset or front panel to increase/decrease the amount 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. For example, if the currently selected surround sound format is Dolby Digital 5.1 then centre, surround and subwoofer speakers will be available for trimming (if all have been connected). If Stereo is the current surround sound format then no loudspeakers will be available for trimming.

Lip Sync Delay

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 KINOS 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 KINOS is equipped with a wide range of surround sound formats to enhance your audio/home cinema experience. For information on the surround sound formats, press **SURR** on the handset, then **HELP**.

To change the surround sound format:

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

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 device.

Dolby Headphone

The KINOS features Dolby Headphone. This signal-processing algorithm replaces the 'in your head' effect of regular headphone listening with a spacious, natural soundfield. Dolby Headphone works with any multi-channel digital or 2-channel analogue audio stream and can reproduce the acoustics of three different virtual rooms.

To access Dolby Headphone:

● Plug headphones into the PHONES socket on the front panel.

The headphones will automatically be detected by the KINOS which will mute the sound to your loudspeakers.

To change the Dolby Headphone option:

● While the headphones are plugged in, repeatedly press **SURR** on the handset until the desired option is shown on the front panel/display device.

For more information on Dolby Headphone, press **HELP**, navigate to Dolby Headphone on the index page, then press **'enter'**.

Midnight Movie mode

This feature allows you to add compression to any multi-channel digital 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 (for approximately 5 seconds).

When the mode is on '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 *Setting up the KINOS* in the *Installation 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 'Normalizing' is shown on the front panel/display device.

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 KINOS are dependent on whether your unit includes, or does not include the Linn Rekord module (if your unit has the Rekord module fitted KINOS+DSP is shown on the front panel display when the unit is in standby).*

The difference between the two variants is shown below:

KINOS (i.e. without Linn Rekord module)

	Analogue Record Outputs	Digital Record Outputs
Analogue source	Any analogue source can be routed to the analogue outputs	No 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	Only the digital source currently being listened to can be routed to the digital outputs. (Is indicated on the display by 'As Selection')

KINOS+DSP (i.e. with Linn Rekord module)

	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 at any time
Digital source	Any digital source can be routed to the analogue outputs at any time	Any digital source can be routed to the digital outputs at any time

Note:
The audio component of video sources follows the tables above.

*The Linn Rekord module is available as an upgrade to the standard KINOS.

To set a record path:

● Press the ⦿ (record) key on the handset.

● Use the △ / ▽ keys to select the source you want to record, then press **'enter'**.

● Use the △ / ▽ keys to select the record option you want to use for making the recording, then press **'enter'**.

The available record options 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 down-mixed to two channels)
LtRt Input	Output frequency is the same as the input frequency, and multi-channel signals are down-mixed 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 and/or video signals to the analogue outputs
SCART	Passes audio and/or video signals to the SCART outputs
As KNEKT	When a record path on the KINOS 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
...	No record path

Notes:
The available record options are dependent on whether the input signal is analogue or digital.

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.

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

Changing the setup

You can adjust many features of the KINOS' operation via the setup menus. These are accessed by pressing **SETUP** on the handset, or pressing and holding **SELECT** on the front panel (for approximately 5 seconds). The Main Menu screen appears on the front panel display/display device.

When in setup you can view help information (shown on your display device) for any particular menu item by pressing **HELP** on the handset.

Navigating setup menus and changing settings:

- To move up and down the menu items, use the ⌃ / ⌄ keys on the handset or front panel.

- To select a menu item, press **'enter'** on the handset or **SELECT** on the front panel.

- To change the setting of a menu item, use the ⌃ / ⌄ keys on the handset or front panel.

- To select the new setting, press **'enter'** on the handset or **SELECT** on the front panel.

For more information on setup, see *Setting up the KINOS* in the *Installation* chapter.

Note:
To make setting up the KINOS easier it can be done using a PS2 (PC) keyboard plugged into the front panel.

Installation

While designing the KINOS System Controller we always bore in mind the needs of the installer/owner, and so we have endeavoured to make installation, setup and operation as simple as possible.

This chapter will show you how to install and configure a KINOS to your requirements. We are sure you will find the procedure intuitive and straightforward.

Unpacking

The KINOS System Controller is supplied with the following accessories:

- luminescent handset with booklet

- 2 x RO3 (AAA) batteries for the handset

- RS232 lead (for connecting the KINOS 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 on the KINOS is not possible or required as the KINOS will operate 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 KINOS System Controller must always be earthed when connected to the mains supply. Use the earthed moulded mains lead supplied. Never use an unearthed plug or adapter with this unit.

Positioning

You can locate your KINOS 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. In particular, if you mount your KINOS in a rack, put it below the power amplifiers so it will not be heated by hot air rising from the amps, and leave a 1U space above and below to allow free air circulation. For optimum cooling consider installing fan-assisted air circulation (or air-conditioning) in the rack.

Note:
If the KINOS is operated for long periods and/or has restricted ventilation, the unit's internal fan will operate and will remain running until the internal temperature has dropped to a pre-set level.

Connections

(1) Control   **(4) Video in/out**   **(1) Control, (2) SCART**

(3) Audio in/out
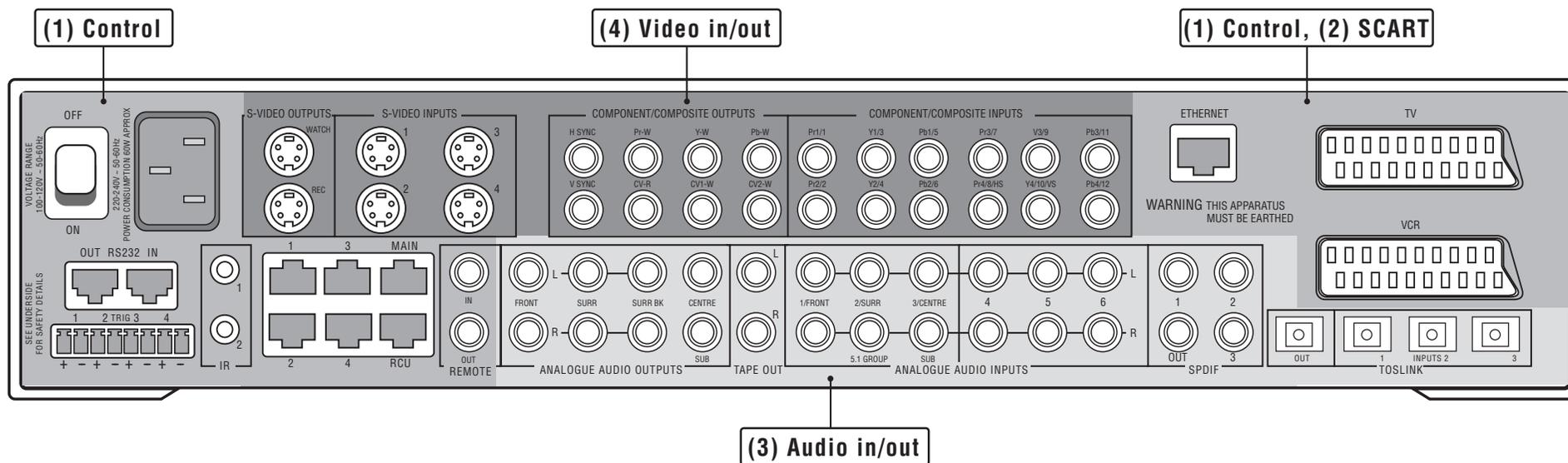
The diagram above shows the connectors available on the rear panel of your KINOS. Connectors are arranged in named groups according to function. The function of the connector groups and connections are detailed over the next few pages of the manual, in sections as shown on the diagram.

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

Using the KINOS with a Linn UNIDISK player

For information on how to connect and set up your KINOS to your Linn UNIDISK player, see the section at the end of this chapter.

(1) Control, (2) SCART
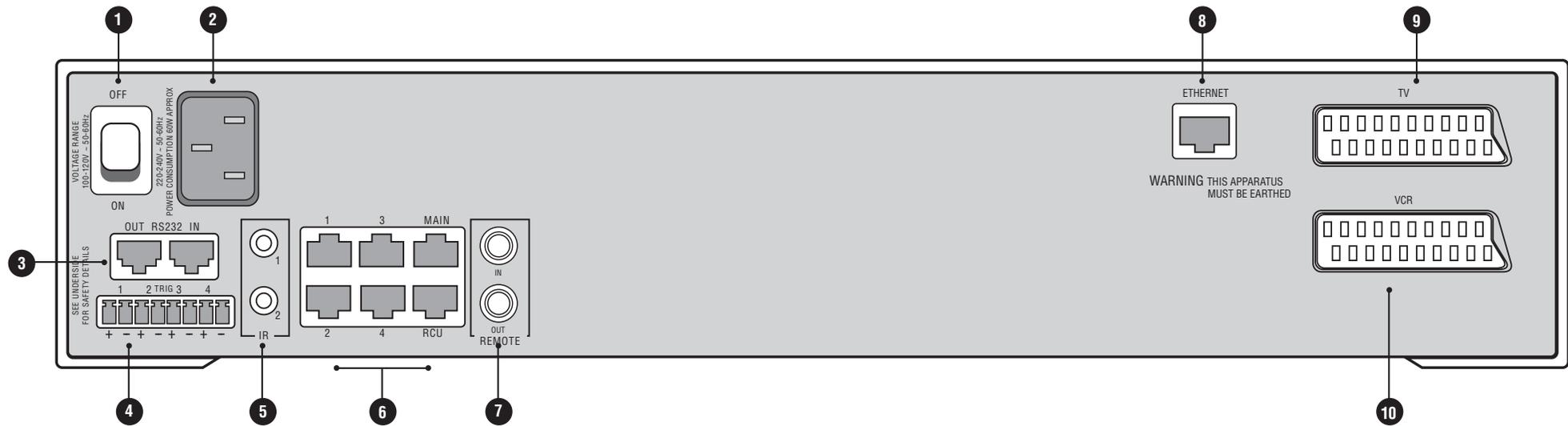
Connector group name: Connector marking	Connector function	Connector type
1 OFF, ON	Mains power switch	–
2 No name or marking	Mains power inlet	IEC
3 RS232: IN, OUT	Pass control instructions to and from the KINOS. The OUT connection is used if you want to let the KINOS control another device e.g. a Linn UNIDISK player. The IN connection is used if you want to control the KINOS from a 3rd party home theatre controller	2 x RJ12
4 TRIG (TRIGGER): 1 to 4	+12 V switched control outputs. For operating peripheral devices e.g. projector screen or lighting controls	4 x Phoenix
5 IR: 1, 2	Pass IR commands to auxiliary devices	2 x 3.5 mm jack
6 1 to 4, MAIN, RCU	Used if the KINOS is part of a KNEKT system	6 x RJ45

Connector group name: Connector marking	Connector function	Connector type
7 REMOTE: IN, OUT	RC5 in/out local loop for use in a KNEKT system	2 x RCA
8 ETHERNET	For controlling the KINOS from a computer/home network	RJ45
9 TV	Output to a TV. Can also be used as the input from a SCART enabled device e.g. set-top box. Carries composite, S-video or component signals as an output, but only composite as an input	SCART
10 VCR	Can be used as the input from, or output to, a VCR. Carries composite, S-video or component signals as either an input or an output	SCART

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(3) Audio in/out

Connector group name: Connector marking	Connector function	Connector type
11 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	8 x RCA
12 TAPE OUT: L-R	One analogue L-R output for connection to a recording device e.g. DAT recorder	2 x RCA
13 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
14 ANALOGUE AUDIO INPUTS: 4 L-R, 5 L-R, 6 L-R	Three stereo analogue L-R audio inputs	6 x RCA

Connector group name: Connector marking	Connector function	Connector type
15 SPDIF: OUT, INPUTS 1 to 3	One electrical digital audio output and three inputs	4 x RCA
16 TOSLINK: OUT, INPUTS 1 to 3	One optical digital audio output and three inputs	4 x TOSLINK

Note:

The output marked SUB (subwoofer) carries the information on the LFE (Low Frequency Effects) channel (the .1 in a 5.1 audio signal) if present, plus some or all of the source signal's bass information (depending on how the other speakers are set up).

(4) Video in/out

Connector group name: Connector marking	Connector function	Connector type
17 S-VIDEO OUTPUTS: WATCH, REC	One S-video watch output for connection to a display device. One S-video record output for connection to a recording device	2 x 4 pin mini-DIN
18 S-VIDEO INPUTS: 1 to 4	Four S-video inputs for connection to source components	4 x 4 pin mini-DIN
19 COMPONENT/ COMPOSITE OUTPUTS: H SYNC, V SYNC, Pr-W, Y-W, Pb-W, CV-R, CV1-W, CV2-W	One YPrPb (RGB) component output plus H and V Sync outputs. Two watch (CV1-W, CV2-W) and one record (CV-R) composite outputs	8 x RCA
20 COMPONENT/ COMPOSITE INPUTS: Pr1/1, Y1/3, Pb1/5, Pr2/2, Y2/4, Pb2/6, Pr3/7, Y3/9, Pb3/11, Pr4/8/HS, Y4/10/VS, Pb4/12	Four YPrPb (RGB) component inputs, or two YPrPb (RGB) component inputs and one YPrPb plus H and V Sync (marked HS and VS) inputs*, or twelve composite inputs *If you want to use the H and V Sync inputs, you must also use the Pr2Y2Pb2 inputs	12 x RCA

Front panel connectors
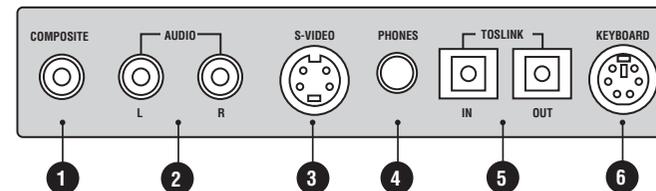
Connector group name: Connector marking	Connector function	Connector type
1 COMPOSITE	Composite video input	1 x RCA
2 AUDIO: L/R	Analogue stereo inputs	2 x RCA
3 S-VIDEO	S-video input	1 x 4 pin mini-DIN
4 PHONES	Headphones socket	1 x 6.5 mm jack
5 TOSLINK: IN/OUT	Digital optical audio input and output	2 x TOSLINK
6 KEYBOARD	For setting up unit via a keyboard	1 x 6 pin mini-DIN

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Setting up the KINOS

The KINOS has been designed to make setup straightforward and intuitive. Follow the step-by-step instructions below to ensure that your KINOS has been connected correctly and is configured to suit your requirements.

1: Connecting

The first stage is to connect your sources, display device and other components to the KINOS.

1. Ensure your KINOS and all components that you will be connecting to the KINOS are disconnected from the mains supply.

2. Connect your source components (your inputs) to the KINOS referring to the back panel diagrams on the preceding pages. The KINOS has been pre-configured with default source settings to make setup easier (see *Default Input Settings*).

   Example:
   If you wish to connect the analogue outputs from a CD player, use the 'Analog1' input on the KINOS.

   Note:
   You may wish to complete the Source Overview template provided in the manual, as you connect each component.

3. Connect your display device and power amp(s) (your outputs) referring to the back panel diagrams on the preceding pages.

Important note:
Because video signals are always passed through the KINOS as is (i.e. format unchanged) the input video signal must match the output video signal.

Example:
If the input video signal is YPrPb, the output video signal must be YPrPb.

However, the connectors used for the input and output do not have to match.

Example:
If the connector for input video signal is S-video SCART VCR, the connector for output video signal could be S-video SCART TV or S-video Watch or S-video Record.

4. Connect any communication/control devices you wish to use (Ethernet, RS232, 12 V triggers etc).

5. Connect all peripheral components to the mains supply and turn them on.

6. Connect the KINOS to the mains supply and turn the unit on using the switch on the back panel. LOADING OPERATING SYSTEM flashes on the front panel display for approximately 40 seconds. The screen will then display KINOS or KINOS+DSP (depending on your unit). The KINOS is now in standby mode.

7. Press the ⏻ (standby) key on the front panel or handset.

2: Setup modes

The next stage is to enter setup. Although all setup menus are shown on the front panel display, you may find it more convenient to configure the unit while viewing the setup menus on your display device. (The KINOS' on-screen help information is shown on your display device and not on the front panel.)

Video output: important note
The default setting for the KINOS' video output signal type is YPrPb. If your display device does not accept a YPrPb signal you must change the Watch: Default Mode setting on the KINOS to the appropriate setting.

To do this, first read *Navigating setup menus and changing settings* on the next page, then follow the instructions below:

1. Press and hold **SETUP** on the handset, or press and hold **SELECT** on the front panel until the Main Menu screen changes to the Installer Menu screen.

2. Change the language setting if required.

3. Enter the Edit User Profile menu.

4. Enter the Video Options menu.

5. Change the Watch: Default Mode item to the required setting.

6. Exit setup.

The KINOS has two setup modes:

1. **General Setup**
   General Setup can be used for adding a new source, removing an existing source, changing settings for an existing source or loudspeakers, or configuring general settings for the KINOS. The only setup items that cannot be accessed in General Setup are 'installer only' ones (see below).

Any changes made to settings in General Setup can be returned to those left by the installer.

During setup, if you require information on any of the setup items, press **HELP** on the front panel or handset.

To enter General Setup:

● Press **SETUP** on the handset, or press and hold **SELECT** on the front panel until the Main Menu screen appears.

2. **Installer Setup**
   In Installer Setup you are able to set up the KINOS for up to four separate configurations (this is useful if the unit is going to be used in different locations). These configurations are called Profiles. Within each Profile you can set up loudspeakers, sources, audio and video performance, and general settings for the KINOS. If you wish to configure a Profile which is similar to an existing one you can save time by simply copying the existing one. The Profiles contain all the default settings as detailed in the *Default Input Settings* page of the manual.

There are many 'installer only' menu items that are not in General Setup. These are for more advanced settings that, once set, are unlikely to require changing. 'Installer only' items are indicated on the display device/front panel by a '+'.

We recommend that you do not enter Installer Setup unless you are an installer as changes made in this mode may not be easily corrected.

To enter Installer Setup:

● Press and hold **SETUP** on the handset or **SELECT** on the front panel. After approximately 5 seconds the Main Menu screen will appear. Continue holding the key until the Installer Menu screen appears.

3: Installer Setup

The main stage of setup is to work your way through the setup menus, configuring the KINOS to the required settings. Remember that on-screen help is viewable by pressing **HELP**.

Navigating setup menus and changing settings:

● To move up and down the menu items, use the △ /▽ keys on the handset or front panel.

● To select a menu item, press **'enter'** on the handset or **SELECT** on the front panel.

● To change the setting of a menu item, use the △ / ▽ keys on the handset or front panel.

● To select the new setting, press **'enter'** on the handset or **SELECT** on the front panel.

Installer Setup – procedure

1. Enter Installer Setup (see opposite).

2. Select the required language you want text displayed in. Options are: English, Français, Deutsch, Italiano, Español, Nederlands.

3. Select the required distance units, either feet or metres.

4. Select the Profile you wish to configure, then press **'enter'** or **SELECT**. The Main Menu screen appears.

5. Change the Profile Name as required.

6. Enter Speaker Setup. Configure the loudspeaker settings as appropriate.

7. Enter Source Setup. Configure each source you have added as appropriate. Remove source configurations you do not require.*

8. The Source Overview item is for use after sources have been set up. It shows the Name, Type, Audio and Video settings for each source configuration.

9. Enter Audio Options, Video Options and General Setup. Adjust the settings as appropriate.

You have now configured the Profile.

* If you are setting up only a few sources, you may find it more convenient to remove all existing source defaults before adding sources. A Remove All Sources function is included in the Source Setup menu.

4: The User Profile

The final stage in setup is to transfer the settings in the configured Profile to the User Profile. These will be the settings the KINOS will use when in normal operation.

To do this:

1. In the Installer Menu screen highlight Copy Profile, press **'enter'** or **SELECT**.

2. In the Copy Profile item select the Profile you have just configured, press **'enter'** or **SELECT**.

3. In the To Profile item select User, press **'enter'** or **SELECT**.

4. Highlight Overwrite Target, press **'enter'** or **SELECT**.

5. Exit setup.

Note:
Once the KINOS is set up, if you want to adjust the settings in Installer Setup, make the changes to the User Profile.

Copying an existing Profile

If you want to configure a new Profile which is similar to an existing Profile, you may find it convenient to copy the existing Profile over.

To do this:

1. In the Installer Menu screen highlight Copy Profile, press **'enter'** on the handset or **SELECT** on the front panel.

2. Select the number of the Profile you wish to copy, press **'enter'** or **SELECT**.

3. In the To Profile item select the Profile you wish to copy to, press **'enter'** or **SELECT**.

4. Highlight Overwrite Target, press **'enter'** or **SELECT**.

Using the KINOS with a Linn UNIDISK player

There are certain operational benefits available when using the KINOS with a Linn UNIDISK player:

● When a disc is loaded into the UNIDISK player and the UNIDISK is selected as the source on the KINOS, the KINOS will automatically switch to the required input(s) for the loaded disc.

● The KINOS will choose an appropriate surround sound algorithm for the disc's audio stream.

● You are able to use either your KINOS' 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 KINOS' 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 KINOS, follow the instructions below.

1. Connect the audio and video outputs you wish to use from the UNIDISK player to the corresponding inputs on the KINOS.

2. Connect the RS232 product-to-product lead (supplied with the KINOS) from the KINOS' RS232 OUT to the UNIDISK player's RS232 IN.

3. Connect the KINOS' REMOTE OUT to the UNIDISK player's REMOTE IN (you will require an RCA phono-to-phono lead).

4. 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**.)

5. Exit User Options.

6. Enter Installer Setup on the KINOS and select the Profile you wish to use.

7. Select General Setup.

8. Select RS232 Out Settings.

   Set –

   Function to **UNIDISK**
   Baud Rate to **9600**
   Parity to **Even**
   Data Bits to **7**
   Stop Bits to **1**

   Save and return to Main Menu.

9. Select Source Setup.

10. Select Add UNIDISK. Here you can set the audio and video inputs you have chosen to use and adjust the other available options (if you need information on the setup menus, press **HELP** on the handset). Once complete, select Save and exit setup.

Please ensure that the setup menus on your UNIDISK player are correctly configured for use with your KINOS and the other components in your AV system. For the majority of the menu items the default setting will be most suitable (see your UNIDISK player's owner's manual for further information).

Default Input Settings

This table shows the default source input settings for the KINOS System Controller.

Name	Type	Audio In	Video In
Tape	Tape1	analog6	-
FM Tuner	Tuner	analog5	-
Phono	AUX	analog4	-
CD Player	CD	analog1	-
SACD/DVD-A	DVD	analog5.1	RGBgroup1
DVD Player	DVD	spdif1	RGBgroup1
DAB Tuner	Tuner	tos1	-
Satellite	AUX	tos2	composite4
Game	AUX	tos3	svid1
TV	TV	ScartTv	compositeScartTv
VCR(SCART)	Tape2/VCR	ScartVcr	compositeScartVcr
FrontA/V	-	analogAux	compositeAux
FrontDA/SV	-	tosAux	svidAux
FrontA/VS	-	analogAux	svidAux

Source Overview

Profile name:

This page is for recording the installation source input settings for the KINOS System
Controller (for completion by the installer). If more than one overview is required please
copy this page as necessary.

Name	Type	Audio In	Video In

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Technical Specification

Electrical

Mains voltage	100-230 Vac @ 50-60 Hz

Physical

Weight	4.7 kg, 10 lb 6 oz
Dimensions	381 (W) x 368 (D) x 80 (H) mm, 15" (W) x 14" (D) x 3" (H)

Signal Interfaces - Inputs

Audio

Type	Connector	Level	Impedance	Notes
Digital Electrical (SPDIF)	3 x RCA	500 mVp-p	75 Ω	–
Digital Optical	3 x TOSLINK	–	–	–
Digital Optical	3 x TOSLINK (front panel)	–	–	–
Unbalanced	12 x RCA	2 Vrms	10k Ω	Analogue
Unbalanced	2 x RCA (front panel)	2 Vrms	10k Ω	Analogue

Video

Type	Connector	Level	Impedance	Notes
RGB + Composite + S-video	2 x SCART	1 Vp-p	75 Ω	Standard TV + VCR interface (can be used as outputs)
Composite / Component	12 x RCA / 3 x RCA / 1 x RCA plus H and V syncs	1 Vp-p	75 Ω	–
S-video	4 x 4 pin mini-DIN	1 Vp-p	75 Ω	–
Composite	1 x RCA (front panel)	1 Vp-p	75 Ω	–
S-video	1 x 4 pin mini-DIN (front panel)	1 Vp-p	75 Ω	–

Signal Interfaces - Outputs

Audio

Type	Connector	Level	Impedance	Notes
Digital Electrical (SPDIF)	1 x RCA	500 mVp-p	75 Ω	–
Digital Optical	1 x TOSLINK	–	–	–
Digital Optical	1 x TOSLINK (front panel)	–	–	–
Unbalanced	8 x RCA	2 Vrms	330 Ω	Surround outputs
Unbalanced	2 x RCA	2 Vrms	330 Ω	Record outputs
Stereo	6.5 mm jack	–	10 Ω	Headphones output

Video

Type	Connector	Level	Impedance	Notes
Composite	2 x RCA	1 Vp-p	75 Ω	Watch output
Composite	1 x RCA	1 Vp-p	75 Ω	Record output
Component	1 x RCA plus H and V syncs	1 Vp-p	75 Ω	Watch output
S-video	2 x 4 pin mini-DIN	1 Vp-p	75 Ω	Watch output
S-video	2 x 4 pin mini-DIN	1 Vp-p	75 Ω	Record output

Control Interfaces

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

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 online at www.linn.co.uk

Warning

Unauthorised servicing or dismantling of the product invalidates the manufacturers 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
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