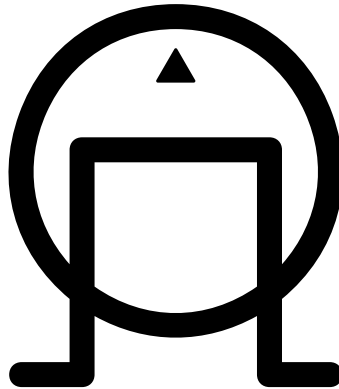


P R I M A R E



**Primare I21 Integrated Amplifier**



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Issue: I21

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**FCC Warning:** This equipment generates and can radiate radio frequency energy and if not installed and used correctly in accordance with our instructions may cause interference to radio communications or radio and television reception. It has been type-tested and complies with the limits set out in Subpart J, Part 15 of FCC rules for a Class B computing device. These limits are intended to provide reasonable protection against such interference in home installations.

**EEC:** This product has been designed and type-tested to comply with the limits set out in EN55013 and EN55020.

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# CONTENTS

## INTRODUCTION

Welcome to the I21 Integrated Amplifier .....	1
High-performance power amplifier .....	1
Flexible inputs.....	1
Fixed and variable outputs.....	1
Superb technical design .....	1
Intuitive user interface.....	1
Using the I21 with other Primare products .....	2
Technical specification.....	2

## HOW TO GET STARTED

Power connection.....	3
Safety instruction .....	3
Switching on and off .....	3
To switch on.....	3
To switch on from standby or to standby.....	3
Back panel connections .....	4
Outputs .....	4
Loudspeaker outputs .....	4
Preamplifier outputs .....	4
Inputs.....	4
Source inputs .....	4
Front panel controls .....	5

## OPERATING THE I21 INTEGRATED AMPLIFIER

Selecting a source .....	7
To select a source.....	7
Changing the volume .....	7
To change the volume .....	7
To dim the front panel display.....	8
To restore the normal display .....	8



# INTRODUCTION

Welcome to the Primare I21 Integrated Amplifier! This chapter introduces you to its key features, and explains how you can take advantage of its superb sound as the key component in your hi-fi system.

## Welcome to the I21 Integrated Amplifier

The I21 is an integrated preamplifier and power amplifier with extraordinary performance for its price.

### High-performance power amplifier

The I21 incorporates a power amplifier providing 75 Watts per channel of superb quality sound.

### Flexible inputs

The I21 preamplifier stage provides four inputs, labelled CD, TUNER, LINE 1, and LINE 2, to cater for a flexible range of sources.

### Fixed and variable outputs

The currently selected source is provided on two pairs of line-level outputs, for connecting the I21 to other equipment. The TAPE OUT sockets are independent of the position of the volume control, and allow you to connect the

I21 to a tape recorder. The PRE OUT sockets are controlled by the volume control, and can be used to connect the I20 to another output stage.

### Superb technical design

The I21 incorporates a classic circuit design based on J-FET input devices and bipolar output devices, typical of far more expensive equipment, giving high performance and excellent reliability.

### Intuitive user interface

In keeping with the philosophy of the Primare range of systems, the I21 can be controlled through a very simple and intuitive set of front panel controls.

Alternatively all the functions of the I21 can be controlled by the C22 Remote Control supplied with the I21, along with the other Primare components in your system.

### Using the I21 with other Primare products

Although the I21 is flexible enough to work with virtually any other equipment you have in your system, it is ideal for use with the other products in the Primare range. A particular benefit of using the I21 with other Primare sources is that you can control your entire system with a single remote control, to give you a fully integrated system with the simplest possible user interface.

### Technical specification

<b>Output power per channel</b>	<b>2 x 75W into 8<math>\Omega</math>, 2 x 125W into 4<math>\Omega</math></b>
<b>Speaker terminals</b>	<b>4 -16 <math>\Omega</math></b>
<b>Output impedance</b>	<b>&lt;0.08</b>
<b>DC offset</b>	<b>&lt;5mV (servo controlled)</b>
<b>Line inputs</b>	<b>330mV</b>
<b>Tape outputs</b>	<b>300mV</b>
<b>Frequency response</b>	<b>&lt;10Hz - 100kHz, -3dB</b>
<b>THD</b>	<b>0.05% (1kHz, 10V into 8<math>\Omega</math>)</b>
<b>Signal-to-noise, line</b>	<b>-100dB (A-weighted)</b>
<b>Power consumption, standby</b>	<b>&lt;12W</b>
<b>Peak current</b>	<b><math>\pm</math>25A</b>
<b>Dimensions (WxDxH)</b>	<b>430 x 385 x 100mm</b>
<b>Weight</b>	<b>13,5kg</b>



# HOW TO GET STARTED

This chapter provides a quick overview of how to connect the I21 integrated amplifier to other components in your system.

## Power connection



**Warning:** Before connecting power check that the required supply voltage, indicated on the back panel, corresponds to your local AC supply. If a different voltage is stated on the type plate do not connect the I21 to the mains power, and seek advice from your dealer.

Connect the mains power using the enclosed mains cable.

**NOTE:** Always disconnect the I21 and all other units in the system from the mains power before connecting or disconnecting any of the cables. Never short circuit speaker terminals. This might seriously damage the unit.

## Safety instructions

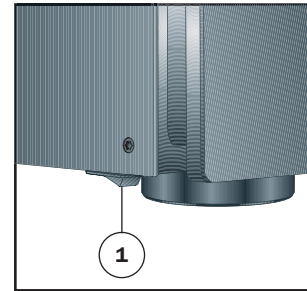
To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the I21.

If you want to build in the I21 you need to be sure to allow space of at least 20 cm behind, 10 cm on both sides and 30 cm above the top panel of the unit. This is to prevent fire or damage caused by overheating. Also make sure that the main switch is accessible.

## Switching on and off


### To switch on

- Use the main switch under the left-hand edge of the housing (1).



During normal operation you can leave the I21 switched on and in standby mode.

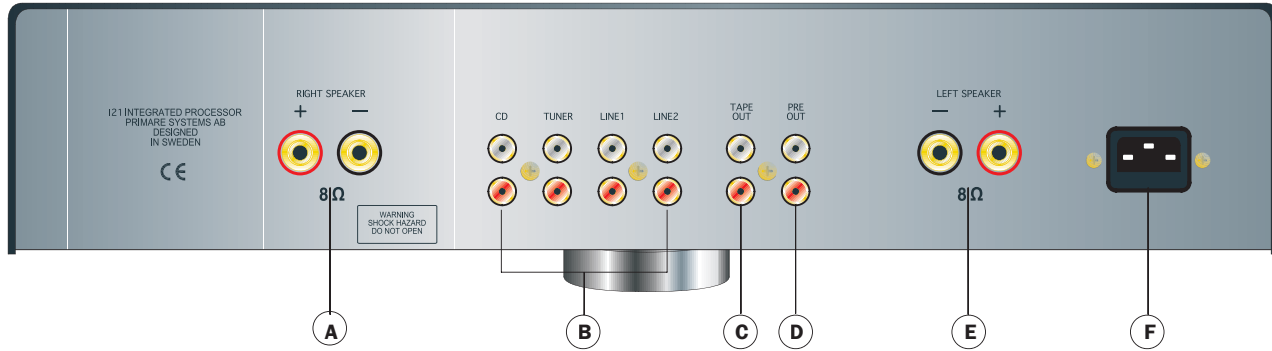
### To switch on from standby or to standby

- Pressing  on the front panel or on the remote control, will change the standby mode.

## HOW TO GET STARTED

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### Back panel connections



A. Right loudspeaker outputs

B. Audio inputs

C. Tape outputs

D. Preamplifier outputs

E. Left loudspeaker outputs

F. Mains power input

## **Outputs**

### **Loudspeaker outputs**

Connect the left and right loudspeakers to the corresponding terminals. The terminals can accept speaker cables terminated with 4mm banana plugs, spade terminals, or bare wires. To connect bare wires unscrew the terminal, pass the bare wire through the hole in the terminal bolt, and clamp the wire in place by screwing the terminal back down.

### **Preamplifier outputs**

The PRE OUT sockets provide a line-level output from the I21 preamplifier stage which can be connected to another preamplifier. The level of this output is controlled by the VOLUME control on the I21.

The TAPE OUT sockets provide a fixed level copy of the currently selected source, suitable for connecting to a tape recorder.

## **Inputs**

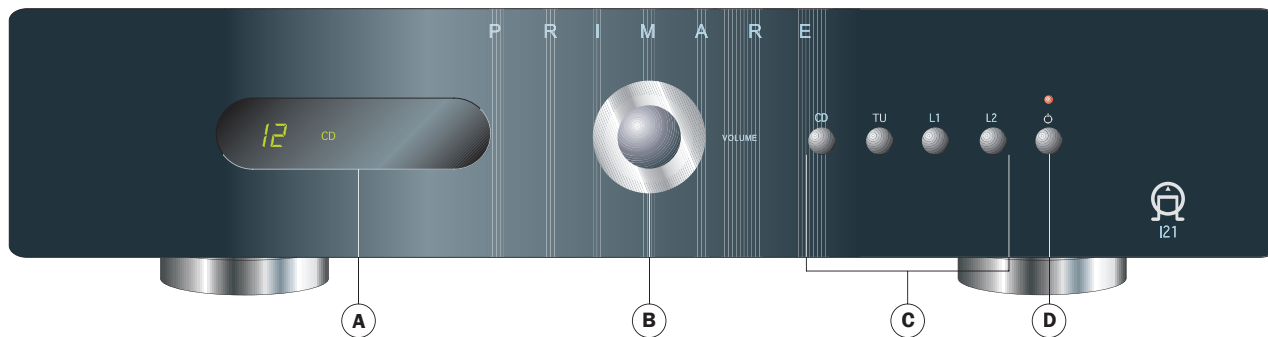
### **Source inputs**

Connect each source to the appropriate source input, connecting the right channel to the red socket and the left channel to the white socket.

To connect an analogue turntable with a moving magnet or moving coil cartridge you will need an additional phono preamplifier such as the Primare R20. The output of the turntable is connected to the R20, and the output of the R20 should be connected to a spare input on the I21, such as LINE1.

### Front panel controls

All the functions of the I21 Integrated Amplifier can be accessed using the five front panel push buttons and the volume control. Information about all operations is displayed on the front panel display



- A. The display keeps you informed about the volume setting and currently selected inputs.
- B. The VOLUME control changes the volume

- C. The INPUT SELECTOR buttons select one of the four source inputs.
- D. The STANDBY button switches the I21 to standby, or switches it on from standby.

# OPERATING THE I21 INTEGRATED AMPLIFIER

This chapter explains how to operate the I21 Integrated Amplifier, using either the front panel controls or the remote control.

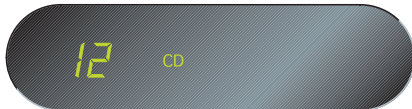
## Selecting a source

The I21 Integrated Amplifier provides a choice of four line inputs, labelled: CD, TUNER, LINE 1, and LINE 2.

### To select a source

- Press the button on the front panel or the remote control corresponding to the source you want to select.

The currently selected source is indicated on the front panel display:



- Alternatively, press the ▲ or ▼ buttons on the remote control to step between sources.

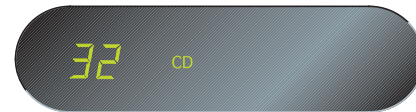
## Changing the volume

The I21 allows you to vary the volume from 0 (silence) to 79 (maximum volume).

### To change the volume

- Rotate the VOLUME control on the front panel, or press the – or + buttons on the remote control.

The current volume setting is shown on the front panel.



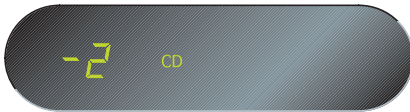
## Changing the balance

You can change the balance of the sound between the left and right channels to shift the position of the stereo image.

### To change the balance

- Press the **BAL/ST** button on the remote control.

The front panel display shows the current balance setting, where -6 corresponds to the leftmost position, 0 corresponds to centre, and 6 corresponds to the rightmost position.



- Press the **-** or **+** buttons on the remote control to adjust the balance.
- Press the **BAL/ST** button again to revert to the normal volume display.

Alternatively the normal display will revert automatically after four seconds.

## To dim the front panel display

- Press the **DIM** button on the remote control.

The display will dim to show just the currently selected source.



### To restore the normal display

- Press the **DIM** button again.



