

# 40 AMP USER GUIDE

CYRUS



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TESTED

BUILDING A BETTER MUSIC EXPERIENCE



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## IMPORTANT! Read before operating this equipment!

**CAUTION:** The exclamation mark is to draw your attention to important instructions and safety procedures in this manual.



**ATTENTION:** The lightning flash warns you of the risk of electrical shock presented by components inside this product. Unauthorised personnel must not open this unit.



**WARNING:** To reduce the risk of electrical shock do not remove any unit covers or panels. There are no user serviceable parts in this product.

**WARNING:** To reduce the risk of electric shock, do not expose this equipment to rain or moisture.

**HEED WARNINGS:** All warnings on the product and in the operating instructions should be adhered to.

**READ ALL THE INSTRUCTIONS:** All the safety and operating instructions should be read before the product is operated.

**RETAIN INSTRUCTIONS:** The safety and operating instructions should be retained for future reference.

**FOLLOW INSTRUCTIONS:** All operating and use instructions should be followed.

**CLEANING:** Unplug this product from the mains before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

**WATER AND MOISTURE:** Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement; or near a swimming pool and the like. The product must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product.

**HEAT:** The product should be situated away from heat sources such as radiators, stoves, or any other products (including amplifiers) that produce heat.

**VENTILATION:** Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**OBJECT OR LIQUID ENTRY:** Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

**ACCESSORIES:** Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

**ATTACHMENTS:** Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**MOVING THE PRODUCT:** A product and cart combination should be moved with care. Sudden stops, excessive force, and uneven surfaces may cause the product and cart to overturn.



**POWER SOURCES:** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

**OVERLOADING:** Never overload wall outlets, extension cords, or integral convenience receptacles. This can result in an increased risk of fire or electric shock.

**POWER CORD PROTECTION:** Power supply cords should be routed 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, convenience receptacles, and the point where they exit from the product.

**NAKED FLAMES:** No naked flame sources, such as candles, must be placed on this product.

**LIGHTNING:** For added protection for this product during a lightning storm, or when it is left unattended or unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

**BATTERIES:** Warning: Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

### **CAUTION! POLARISED CONNECTOR (CANADA and USA):**

To prevent electrical shock, match wide blade of plug to wide slot, fully insert. Do not alter or remove this plug if it does not fit your mains power socket. Have a suitable socket installed by a competent electrician.

**ACCESS TO THE MAINS PLUG:** The means to disconnect this product from the mains supply is the mains plug. Ensure that the mains plug is accessible at all times.

## Power supply

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Connect the moulded IEC connector of the supplied AC cord into the power inlet on the rear of the unit.

The mains supply requirement of your amplifier is marked on a label on the rear panel. Before connecting, check that this voltage is the same as your mains supply.

220-230V Products: Voltage Range 220V-240V

115V Products: Voltage Range 110V-120V

If you move to an area with a different mains voltage, contact your local Cyrus distributor to have your product converted.

There are no user replaceable fuses in this unit.

## Servicing

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Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**CONDITIONS REQUIRING SERVICE:** Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product has been dropped or damaged in any way.
- If the product does not operate normally by following the operating instructions. (Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage requiring extensive work by a qualified technician to restore the product to its normal operation).
- When the product exhibits a distinct change in performance.

**REPLACEMENT PARTS:** When replacement parts are required, be sure the service technician has used replacements specified by the manufacturer or have the same characteristics as the original part. Unauthorised substitutions may result in fire, electric shock, or other hazards.

**SAFETY CHECK:** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

## Product service centres

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For product service or technical advice, contact only authorised Cyrus service centres. Contact details for Cyrus distributors may be found on the Cyrus website at [www.cyrusaudio.com](http://www.cyrusaudio.com).

### **FCC Notice\***

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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 and 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.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

\*115V products

## Welcome to the world of Cyrus

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Congratulations on your choice of Cyrus Hi-fi products. Our state-of-the-art design technology and outstanding quality of manufacture has won countless awards around the world. We are confident that you will derive great pleasure from owning a product from one of the most recognised and respected manufacturers of hi-fi equipment.

Now is a good time to register your new Cyrus product.

To register, click [here](#) or visit - [www.cyrusaudio.com/support/warranties](http://www.cyrusaudio.com/support/warranties).

Please read these instructions carefully before commencing installation. They provide full guidance to help you install your amplifier safely and correctly.

## Preparations for Installation

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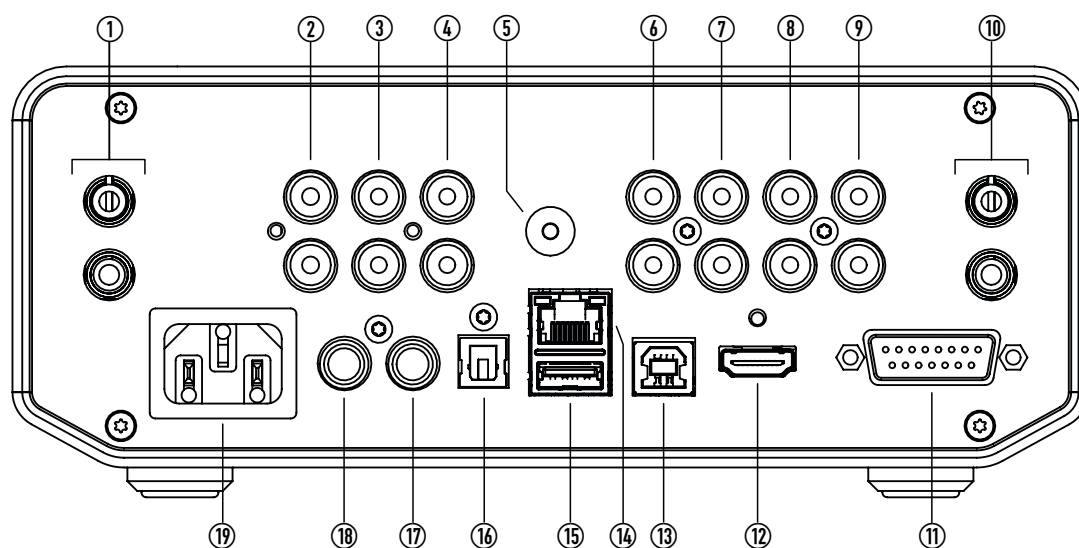
Before installing your Cyrus amplifier check that the following items are included in the accessory box.

- Power Cable
- Remote Handset with Batteries
- 2 Loudspeaker Plugs
- Quick-Start guide

After removing these items, please retain the packaging.

Install the amplifier in a well ventilated location away from sources of high temperature, dust or humidity. Never stand the amplifier under another unit or on any surface likely to obstruct its cooling or ventilation.

## Installation



### Key to the rear panel drawing

- |                          |                         |                            |
|--------------------------|-------------------------|----------------------------|
| 1. Right speaker output  | 7. AN2 analogue input 2 | 14. RJ45 control / upgrade |
| 2. Pre-amplifier output  | 8. AN3 analogue input 3 | 15. USB upgrade port       |
| 3. Fixed output          | 9. AN4 analogue input 4 | 16. DIG3 digital input 3   |
| 4. Phono/MM input        | 10. Left speaker output | 17. DIG2 digital input 2   |
| 5. Phono ground terminal | 11. 40 PSU connection   | 18. DIG1 digital input 1   |
| 6. AN1 analogue input 1  | 12. eARC input          | 19. Power inlet            |
|                          | 13. USB input           |                            |

## Important – read before making any connections



To avoid possible damage to your audio system, it is essential to disconnect all system components from the mains supply before connecting or disconnecting audio interconnects.

### Connecting analogue audio sources

- Connect a stereo audio interconnect cable between each analogue source component and one of the analogue input sockets 'AN1 - AN4'.

*Ensure left and right channels are correctly connected.*

*Make a note of the input number used for each source as the inputs can be re-named at the set-up stage.*

The analogue inputs are compatible with the connection of stereo analogue audio sources. These include-

*Analogue output from CD/Blu-ray Players*

*Analogue output from DAB or FM radio tuners*

*Analogue output from a TV*

*Analogue tape recorders*

*Surround decoders*

### Connecting a turntable

The PHONO/MM input is compatible with turntables fitted with moving-magnet cartridges (for moving coil cartridges an external phono stage will be required, connected to an analogue input). The turntable will have a cable with two plugs, and often a thin ground wire with a tag.

- Connect the plugs to the 'PHONO/MM' sockets on the back panel. Connect the white plug to the left socket and the red plug to the right socket.
- Unscrew the 'GROUND' terminal then fasten the ground wire (where fitted) under the terminal.

### Connecting digital audio sources

- Using a suitable Toslink optical or digital phono interconnect, connect each digital audio source to one of the inputs 'DIG1 - DIG3' & eARC.

*Make a note of the input number used for each source as the inputs can be re-named at the set-up stage.*

The digital audio inputs are compatible with a number of different digital audio sources. These include-

*Digital audio output from a CD player*

*Digital audio output from a TV*

*Digital audio output from a games console*

*Digital radio*

*Blu-ray players*

*Digital satellite receivers*

*Digital tape/disc recorders*

*NOTE: The digital audio inputs are only compatible with 2 channel PCM source material and will not reproduce multi-channel surround sound.*

### Connecting a USB audio device

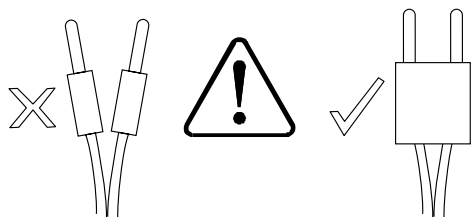
The USB audio input may be used to connect the audio feed from a Windows PC or mac OS computer.

Windows computers will require the installation of a USB audio driver. This is available for download from the Cyrus website. mac OS computers do not require driver installation.

- Install the driver (if required).
- Connect a cable from a USB outlet of the computer to the 'USB B' input.



## Connecting loudspeakers

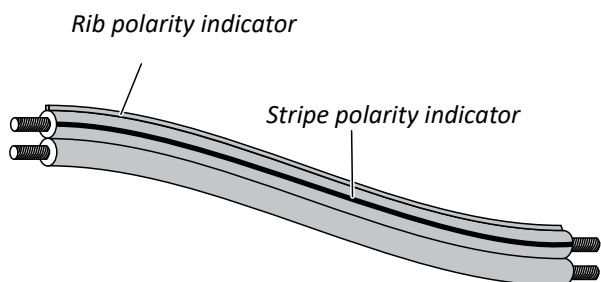


The 40 AMP is supplied with a pair of dual speaker plugs. To ensure safe operation of this amplifier, the speaker cables must be terminated with the supplied speaker plugs, assembled in accordance with the instruction supplied with the plugs.

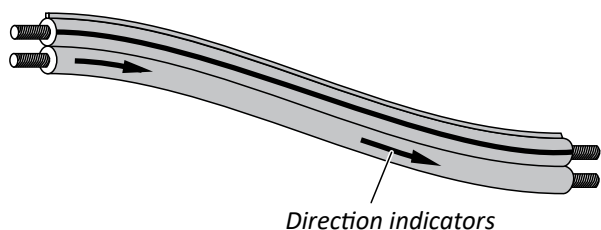
Never terminate the cables with separate 4mm/banana plugs.

NOTE: Additional plug kits are available from Cyrus if required.

- Following the instructions supplied with the speaker plugs, assemble the plugs to the speaker cables. *Observe polarity. The + and - speaker terminals of the amplifier must be connected to the corresponding + and - terminals of the speakers. To identify polarity at each end of the cable, most cables have polarity indicators. This is usually a stripe or a rib on one conductor as shown in the examples below. The polarity marking indicates the + cable.*



*Your cables may also be marked for directionality with arrows. In this case, the arrows should always point in the direction of signal flow towards the speakers.*



Once the plugs are fitted to the cables, Plug each cable into the speaker sockets on the back panel and into the speaker.

## Using the fixed output of your amplifier

The fixed output will feed the sound of the source currently playing at full volume to a tape recorder, a second amplifier in another room or a pair of active speakers with built-in amplifier(s) and volume control.

### Connecting a second amplifier

NOTE: Ensure that the second amplifier includes a volume control.

- Using a stereo phono interconnect, connect 'Fixed Out' to an analogue input of a second amplifier feeding speakers in another room.

*You can now play the same music in both rooms and use the volume controls on the two amplifiers to control the volume in each room separately.*

## Connecting headphones

- Connect headphones to the 3.5mm stereo jack socket on the front panel.

*If your headphones have a larger, 6.35mm (1/4") connector an adapter cable can be used. An extension cable (not supplied) may also be used if the headphone cable is not long enough.*

## External power supply - 40 PSU

The 40 PSU is a unique DC power supply that will upgrade the sonic performance of compatible products in the Cyrus range.

CAUTION:

- Disconnect both the 40 PSU and 40 AMP from the mains.
- Plug the multi-pin interconnect from the 40 PSU into the 40 PSU socket on the back panel.  
*CAUTION: Use only the interconnect supplied with the 40 PSU. Other interconnects may damage the 40 PSU and the amplifier.*
- Connect a mains supply to both units.

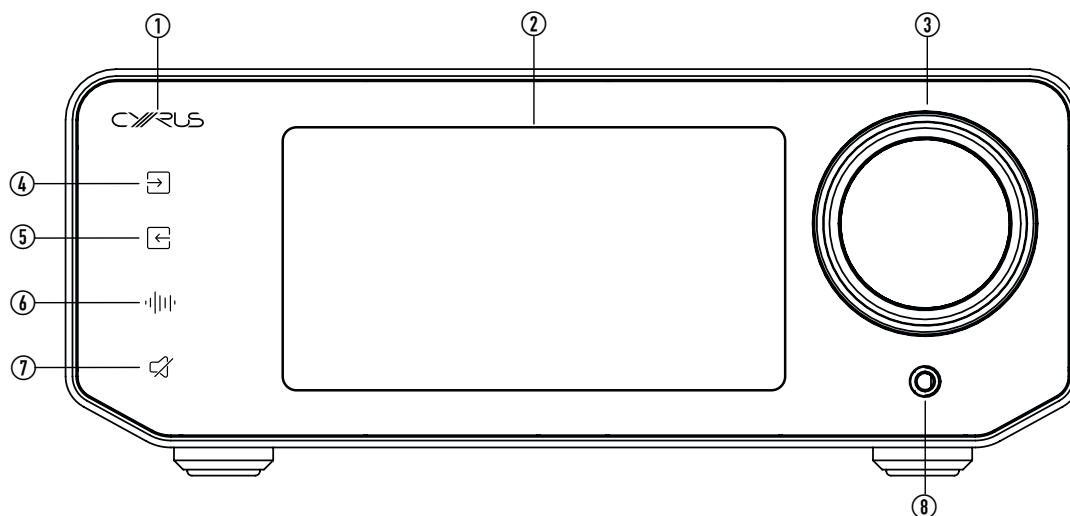
NOTE: Connection of a 40 PSU is detected automatically, so no internal adjustments are required.

## Connecting to the AC mains supply

Connect the socket on the AC Power cable to the power inlet on the rear panel of the amplifier. Now connect the cable to a suitable AC power point.

NOTE: The means to disconnect this product from the mains supply is the mains plug. Ensure that the mains plug is accessible at all times.

## Operation



### Key to the front panel drawing

- |                                    |                     |
|------------------------------------|---------------------|
| 1. Standby and indicator           | 5. Input -          |
| 2. Display window                  | 6. Balance          |
| 3. Volume & IR / proximity sensors | 7. Mute             |
| 4. Input +                         | 8. Headphone socket |

---

### Touch pad controls

The front panel controls are touch sensitive. There is no need to press the controls, just lightly touch or hold a finger on the touchpad to select a function.

### Power

#### Mains power

In regular use mains power can be left connected permanently.

When unattended for a long period (holidays etc) mains power should be disconnected.

#### Standby

When mains power is connected, the standby touchpad (CYRUS) is used for power control.

*When in standby, the touchpad colour will be red.*

When set to standby, all settings in use are retained.

#### Auto-standby

To save energy, standby will set automatically 20 minutes after music last played. If required, the auto-standby feature may be adjusted in the setup menu.

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### Selecting an input

Inputs may be selected from the front panel touchpads.

- Touch Input + & Input -.
- The input names will step through on the display.

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### Playing USB audio from a computer

Windows computers will require the installation of a USB audio driver. This is available for download from the Cyrus website. Mac OS computers do not require driver installation.

With the driver installed and a USB connection in place, USB audio can be played.

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### Playing DSD audio from a computer

Playback of DSD files will require the installation on the computer of a specialist music playback app that supports DSD playback.

- Before playing DSD music, choose, install and configure a DSD player app on a computer connected to the 'USB B' input.
- Select the 'USB' input.
- Play the DSD music file.

## Volume level and channel balance

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The level control performs the dual functions of volume and balance.

### Volume

- Turn the level control to set the volume in 1dB steps.  
*The volume level is shown numerically in dB at the right side of the display.*

### Headphone volume

When headphones are playing, headphone volume level is set and stored separately to speaker volume level. When switching between headphone and speaker operation the last used volume level setting for headphones or speakers will be recalled.

### Safe volume levels after standby

The last used volume level settings for both speakers and headphones are stored when the unit is set to standby. If either or both volume settings are set to an abnormally high level (greater than -30dB) before entering standby, the level will be reduced automatically to a safer level of -30dB for next use.

### Balance

- Touch Balance to change the mode of the front panel level control to set Left/Right channel balance.  
*The display will change to show a display of the balance setting.*
- Adjust the channel balance in 1dB steps by up to 5dB toward the left or right channels by turning the level control.

## Mute

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- Touch 'MUTE' to mute the volume to minimum level without disturbing the existing volume setting.  
*When muted the volume level display will show that the sound is muted.*
- Touch 'MUTE' again to restore the original volume setting.

## Headphones

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- Connect your headphones.  
*The volume level display will switch from 'dB' indication to show a headphone symbol, the sound will mute in the speakers, and switch to the headphones.*

Warning: Excessive sound pressure from earphones and headphones can cause hearing loss.

## Playing through a second amplifier

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If you have a second amplifier connected to fixed out, the

second amplifier will play the selected source from the main system.

Volume for the second system is controlled by the second amplifier.

NOTE: The fixed output will be muted when the amplifier is muted and during headphone operation.

## Remote control operation

### Remote control introduction

The 40 remote control will send commands to Cyrus amplifiers, CD players and audio streamers.

### Remote control backlight

The remote control keypad includes a back-light on the mode keys. The back-light will switch on automatically when a command is sent to show which mode the remote is in.

### Fitting batteries to the remote control

The battery compartment is on the back of the remote control.

1. Turn over the remote and slide off the cover.
2. Fit two AAA batteries into the battery compartment.
3. Replace the battery cover.

Replace the handset batteries only with AAA batteries of the same voltage and type.

Discard used batteries in accordance with recycling regulations in force in your area.

### Sending commands to Cyrus components

- Press the AMP key to switch on a Cyrus amplifier. The remote control will now send commands to a Cyrus amplifier.

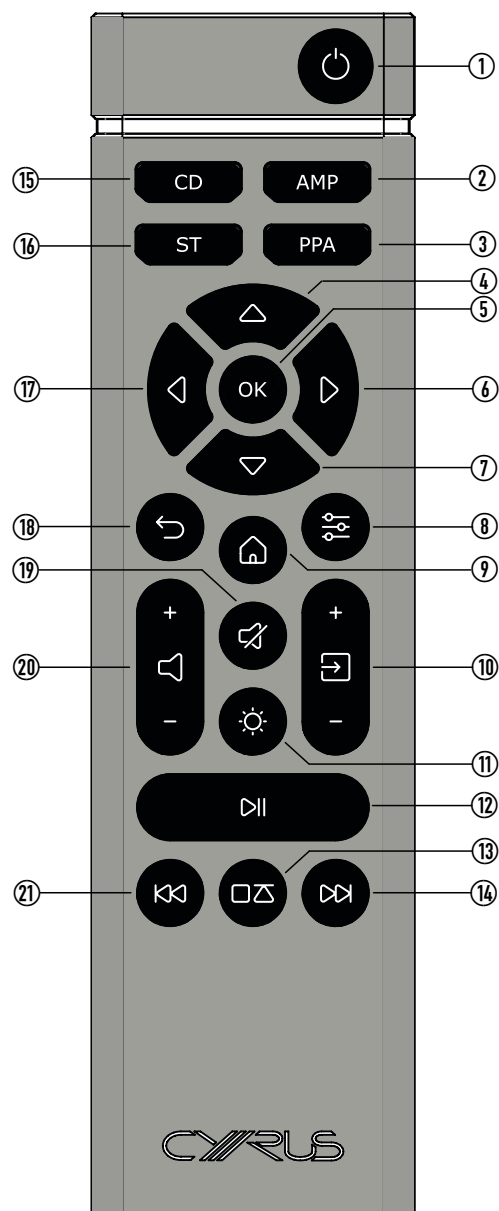
### Switching on Cyrus source components

- Press the CD key to switch on a Cyrus CD player and send commands to the CD player and an amplifier.
- Press the ST key to switch on a Cyrus audio streamer and send commands to the streamer and an amplifier.
- Press the PPA key to switch on a Cyrus audio phono preamp and send commands to the phono preamp and an amplifier.

## Cyrus remote commands

1. Set Cyrus amplifiers, CD players, phono preamplifiers and audio streamers to standby.
2. Set the handset to send commands to Cyrus amplifier.
3. Set the handset to send commands to Cyrus phono preamplifier.
4. Navigate up.
5. OK.
6. Navigate right.
7. Navigate down.
8. Access settings menu.
9. Home.
10. Input +/-.

11. Access brightness menu.
12. Play/Pause.
13. Stop/Eject.
14. Skip track forward
15. Set the handset to send commands to Cyrus CD.
16. Set the handset to send commands to Cyrus streamer.
17. Navigate left.
18. Return.
19. Mute.
20. Volume + / -.
21. Skip track back.



## Menu maps

### Menu

#### Audio

##### DAC Filter

- Minimum Phase
- Linear Phase Apodising (default)
- Linear Phase Fast Roll Off
- Linear Phase Fast Low Ripple
- Linear Phase Slow Roll Off
- Minimum Phase Fast Roll Off
- Minimum Phase Slow Roll Off
- Minimum Phase Low Dispersion

##### Default Input

- Last Input (default)
- AN1
- AN2
- AN3
- AN4
- Phono
- USB
- eARC
- OPT
- Coax1
- Coax2

#### Inputs

##### Input Name

- Default
- CD
- Tuner
- Streamer
- STB
- TV
- Tuner
- Console
- Computer

##### Volume Offset

- 0 to -6dB

##### Fixed Volume

- Yes
- No (default)

##### Enabled

- Yes (default)
- No

##### Cyrus Device Link

- No Device Link
- (set device for input)

#### Balance

- (set balance)

#### Maximum Volume

- (set max. volume)

#### Maximum Heapdhone Volume

- (set max headphone volume)

#### Display

##### Auto Hide

- Yes (default)
- No

##### Brightness

- Level 1
- Level 2
- Level 3 (default)
- Level 4
- Level 5

##### LED Brightness

- Level 1
- Level 2
- Level 3 (default)
- Level 4
- Level 5

#### System

##### About

- (Displays Device Information)

##### Auto Standby

- Off
- 20 minutes (default)
- 30 minutes
- 1 hour
- 2 hours
- 4 hours

##### Factory Reset

- Yes
- No

##### Upgrade

- Check for USB Upgrade
- Check for OTA Upgrade
- Auto OTA Upgrade Check
- Install Upgrade
- Clear Supressed Upgrade

##### Time Zone

- (Set Time Zone)

##### Cyrus Devices

- Device Group
- Unlinked
- Group A
- Group B
- Group C
- Group D

##### Cyrus Devices

- (Lists devices)

#### PSU

- (Displays 40 PSU information)

## DAC Filters

---

Digital filters are required to minimise unwanted antialiasing distortion in the audio band, but no digital filter is perfect, all are a compromise between various parameters.

Eight filter settings are available, described in this section.

### Minimum Phase

*Low pre-ringing and the phase response varies at higher frequencies. There is more post-ringing than compared with linear phase and apodizing filters.*

### Linear Phase Apodising (default)

*A compromise between phase, frequency response and ringing. Its main advantage is that it removes most of the ringing that has been introduced as part of the recording process when the original material was recorded and mastered.*

### Linear Phase Fast Roll Off

*Higher and equal levels of pre- and post-ringing compared with linear phase, slow roll off. No phase shifts and with minimal high frequency aliasing compared with minimum phase, slow roll off. Optimised for image rejection at  $0.55 \times F_s$ .*

### Linear Phase Fast Roll Off Low Ripple

*Higher and equal levels of pre- and post-ringing compared with linear phase, slow roll off. No phase shifts and with minimal high frequency aliasing compared with minimum phase, slow roll off. Optimised for in-band ripple.*

### Linear Phase Slow Roll Off

*Low and equal levels of pre- and post-ringing. No phase shift but can introduce high frequency aliasing at a higher level than linear phase, fast roll off. Very high frequencies will be slightly attenuated. Optimised for lower latency.*

### Minimum Phase Fast Roll Off

*No pre-ringing and the phase response varies at higher frequencies. There are much higher amounts of post ringing than compared with the linear phase filter options.*

### Minimum Phase Slow Roll Off

*No pre-ringing artefacts but can introduce phase shifts at higher frequencies. It has less post-ringing than the Minimum Phase Fast Roll Off, but this is still higher than the linear phase filter options. Very high frequencies in the last half octave of the filter pass band will be slightly attenuated.*

### Minimum Phase Fast Roll Off Low Dispersion

*Optimised for balance of the low latency of minimum phase filters and low dispersion of linear phase filters.*

## Digital filter terms

---

The terms used to describe the behaviour of the digital filters in the previous section include:

### Frequency response

*Audio level vs. frequency. This should be effectively flat between 20Hz and 20kHz.*

### Phase

*The time delay introduced between reproducing different frequencies that pass through the filter. Ideally this would be as low as possible which would give a linear phase vs. frequency or constant group delay.*

### Pre-ringing

*Audio artefacts that precede the original audio impulse. These are normally undesirable as this phenomenon does not exist in the natural world, so ideally this should be minimised.*

### Post-ringing

*Audio artefacts that follow the original audio impulse. Ideally these should be minimised, but are not normally as detrimental as pre-ringing artefacts.*

### Aliasing

*Audio artefacts introduced into the audio band from high frequency signals.*

## Firmware updates

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The operational firmware may be upgraded from time to time to add new features and to fix operational issues.

New firmware versions will be available from the 'Support' pages of the Cyrus website [www.cyrusaudio.com](http://www.cyrusaudio.com).

If new firmware is available, this will be packaged with other documents including -

- Firmware version change log.
- Latest firmware update procedure.
- Revised handbook (if required).

## Troubleshooting guide

If your amplifier is not operating properly, disconnect the power and check carefully all connections.

If you are in any doubt, consult your retailer.

<b>No sound</b>	
The amplifier is switched off or in standby (indicator is red).	Bring the unit out of standby.
Mute is on	Deselect mute
The source is not working (e.g. CD not playing or paused).	Check the source.
<b>No sound (digital sources)</b>	
The sample rate or sound format of the digital signal from the source may not be correct.	Check that the sample rate from the source is within the specification of the amplifier and that the program is encoded as two channel stereo.
<b>Computer not recognising USB</b>	
The computer may require installation of a driver, or an update to an existing driver.	The latest driver can be downloaded from the Cyrus website. Install the driver and check the input with USB audio again.
<b>No sound from one loudspeaker</b>	
Balance control at extreme limit.	Centralise balance.
Does your speaker have fuses?	Check speaker, replace fuses.
Speaker cables / interconnects faulty.	Check connections, cables - replace if needed.
<b>Spurious noises from speakers</b>	
Interconnects or connections faulty.	Check, replace where necessary.
<b>Standby is activated randomly</b>	
Auto standby may have operated.	To save energy, the unit will automatically set to standby if no music plays for 20 minutes.
<b>Remote control not operating</b>	
The batteries may be flat.	Check the batteries.
<b>Remote control lights flash</b>	
This indicates that the batteries are flat.	Replace the batteries.

## Error indication

Your amplifier has a unique error indication system to help you to diagnose problems. If an error is detected in use, the display will show 'Error' with indication of the type of error as shown in the table.

<b>Mains</b>	
The mains supply voltage has been outside of safe limits.	Disconnect the amplifier from mains power and re-connect it. If the fault persists arrange for an electrician to check the mains supply voltage.
<b>Amp Over Current</b>	
The amplifier output has been overloaded. This is usually due to a short-circuit at the loudspeaker terminals.	Switch off the amplifier and check that there are no short circuits in the speaker wiring at the amplifier rear panel or at the speaker terminals.
<b>Thermal</b>	
The amplifier has overheated. This may occur if the amplifier is driving low impedance speakers, if the volume is set too high for prolonged listening, or if there is inadequate ventilation for the amplifier.	The amplifier will switch off until it has cooled down. If this happens regularly, try improving the ventilation around the casing of the amplifier. If the problem continues, then the impedance rating of your speakers may be too low.
<b>Internal PSU fault</b>	
This fault condition will be displayed if there is a fault with the internal power supply of the amplifier.	A PSU fault cannot be corrected by the user. The amplifier should be returned to your retailer.
<b>External PSU fault</b>	
This fault condition will be displayed if there is a fault with a connected 40 PSU.	Disconnect the amplifier and 40 PSU from mains power. Check the interconnect between the two units, then re-connect to the mains. If the fault persists the 40 PSU should be returned to your retailer.

If a fault condition still remains, return the amplifier to your Cyrus appointed retailer or an authorised Service Centre.

## Specifications

### Power Supply

Voltage ..... As plate on rear of unit

### Power Consumption

Standby..... <0.5W

Maximum ..... 500W

Safety compliance ..... CE

EMC (230V)..... CE

EMC (115V)..... FCC

### Analogue audio performance

Input sensitivity (70W/8Ω) ..... Line ..... 237mV

Input impedance ..... Line ..... 28kΩ

Frequency response (-3dB) ..... Line ..... 0.1Hz, >100kHz

Signal to noise ratio (A-WTD) ..... Line ..... 105dBA

THD+N (Pre-Amp) 1kHz ..... Line ..... <0.002%

THD+N (1kHz, 2/3 power) ..... 8 Ohms ..... <0.002%  
(2 channels driven)

Power output (2 channels driven) ..6 Ohms ..... 100W  
With 40 PSU:

Power output (2 channels driven) ..6 Ohms ..... 113W

### Digital audio performance

DAC..... ESS ES9039Q2M 32 bit DAC

Sample rate range (SPDIF) ..... 16/44.1k - 24/192k

Sample rate range (USB)..... 16/44.1k - 32/384k

USB supported formats (SPDIF)..... PCM stereo

USB supported formats (DSD) ..... up to DSD256

USB supported formats (DOP)..... up to DOP128

S/N ratio (pre-out, 0dB FS) ..... >113dBA

THD (pre-out, 0dB FS)..... <0.001%

### Enclosure

Size (HxWxD) ... 88 x 220 x 385 mm (3.46" x 8.66" x 15.16")

Weight ..... 8.5kg (18.7lbs)

Material ..... Anodised aluminium chassis

Cyrus reserves the right to change all specifications without notice. E &OE

## Acknowledgements

This product uses the LVGL graphics library.

See <https://lvgl.io>

## Warranty

The warranty period is five years. No retailer or distributor may vary the terms of this warranty, which is personal to the original purchaser and is not transferable.

Please retain the sales receipt as proof of purchase.

Warranty claims must wherever possible be made through the retailer from whom the equipment was purchased.

This warranty excludes:

- Damage caused through neglect, accident, misuse, wear and tear, or through incorrect installation, adjustment or repair by unauthorised personnel. Any unauthorised servicing will result in loss of warranty.

- Liability for damage or loss occurring in transit to or from the purchaser.
- Consequential damage, loss or injury, arising from or in conjunction with this equipment.

Equipment for attention under warranty should be consigned return carriage paid. If returned equipment is found to comply with the published specification, CYRUS reserves the right to raise a charge.

The above conditions do not affect your statutory rights as a consumer.

## WEEE

This logo means that this product is not to be disposed of with your household waste. This product should be handed over to a designated collection point to be recycled. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information on collection points, contact your local government for more information about recycling.





CYRUS



[www.cyrusaudio.com/products/40-AMP](http://www.cyrusaudio.com/products/40-AMP)