# 40 CD USER GUIDE







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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.

### Laser product

This label on the rear panel tells you that the unit contains a Laser component. Opening this unit will expose the user to radiation from the laser beam.



### Power supply

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

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

100-230V Products: Voltage Range 90V-240V

There are no user replaceable fuses in this unit.

#### Servicing

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 centre**

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.

### 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 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

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.

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

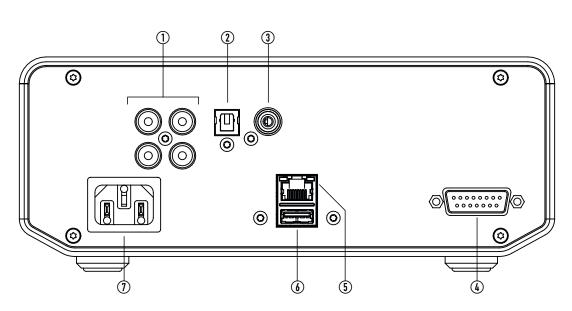
### **Preparations for Installation**

Before installing the CD player check that the following items are included in the accessory box.

- Power Cables for UK, US, Europe
- Remote Handset with batteries
- Quick-Start guide

After removing these items, please retain the packaging. Install the CD player in a well ventilated location away from sources of high temperature, dust or humidity. Never stand it under another unit or on any surface likely to hamper its cooling or ventilation.

### Installation



#### Key to the rear panel drawing

- 1. Analogue outputs
- 2. Optical output
- 3. Digital output
- 4. 40 PSU connection
- 5. RJ45 control / upgrade
- 6. USB upgrade port
- 7. Power Inlet

### 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 to the system amplifier

 Connect a suitable stereo RCA phono interconnect between the 'OUT1' or 'OUT2' sockets and the corresponding input of the amplifier or receiver.
Amplifier inputs suitable for this purpose are line inputs.

Dual outputs are provided for convenient connection to multiroom units or for direct connection to tape/disc recorders etc.

DO NOT connect these outputs to the PHONO input of the amplifier, as this could damage your amplifier or speakers.

### Connecting a digital amplifier or D/A converter

Two digital outputs are provided to connect to a digital amplifier or D/A converter.

#### Connecting with a cable

 Connect a single, digital interconnect between the 'DIGITAL OUTPUT' coaxial socket and a digital input of an amplifier or D/A converter.

#### **Connecting with optical interconnect**

 Connect a Toslink optical interconnect between the 'DIGITAL OUTPUT' optical port and an optical input of an amplifier or D/A converter.

The cable connection is recommended for the best quality where this connection is available.

NOTE: The digital output is only compatible with digital inputs. It is not suitable for connection to an analogue amplifier.

### 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 CD 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 CD player.

• Connect a mains supply to both units.

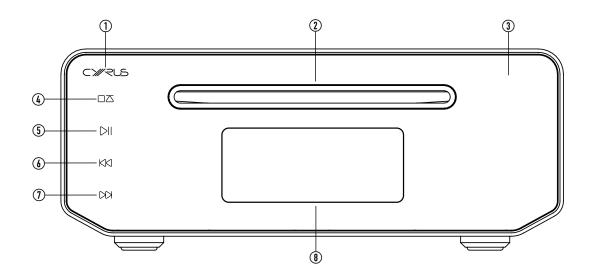
NOTE: Connection of a 40 PSU is detected automatically, so no internal adjustments are required.

### Connecting to the AC mains supply

- Connect the socket on the AC Power cable to the AC Power inlet the back panel.
- Now connect the cable to a suitable AC power point.

There is no mains power switch. To switch off the mains supply remove the plug from the wall outlet. For this reason, ensure that the plug is easily accessible when installing the unit.

### Operation



### Key to the front panel drawing

- 1. Standby and indicator
- 2. CD loading slot
- 3. IR / proximity sensors
- 4. Stop / Eject

- 5. Play / Pause
- 6. Previous track
- 7. Next track
- 8. Display window

### 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.

### Switching on

#### 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 after 20 minutes if left in pause or stop modes. If required, the auto-standby feature may be adjusted in the setup menu.

### Loading a disc

Before loading a disc, check that the display reads 'No Disc', indicating that a disc is not already loaded.

 Hold the disc label side upwards and place it gently into the CD loading slot.

Once a third of the disc is loaded, the disc will be automatically loaded through the front panel. The display will show 'Reading' while checking the contents of the disc.

### Playing a disc

Touch Play / Pause.

Playback will commence from track 1 unless otherwise selected.

#### **Pausing**

Touch Play / Pause to pause the current track.
The disc will be held at the precise point of interruption and the PAUSE symbol will show on the display.

Touch Play / Pause again to resume playing the disc.

### Previous/next track selection

 Touching Next Track or Previous Track to select the next or previous track on the CD.

Track indications appear on the display.

### Stop/eject

When a disc is playing -

• Touch Stop / Eject to stop the disc immediately.

If the disc is already stationary -

Touch Stop / Eject to eject the CD.

### 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**

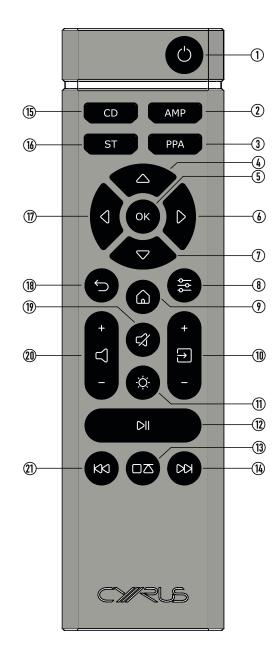
 Press the AMP key to switch on a Cyrus amplifier. The remote control will now send commands to a Cyrus amplifier.

#### **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.

System Menu map About Menu (Displays Device Information) Audio **Auto Standby DAC Filter** Off Minimum Phase 20 minutes (default) Linear Phase Apodising (default) 30 minutes Linear Phase Fast Roll Off 1 hour Linear Phase Fast Low Ripple 2 hours Linear Phase Slow Roll Off 4 hours Minimum Phase Fast Roll Off **Factory Reset** Minimum Phase Slow Roll Off Yes Minimum Phase Low Dispersion No Display **Reset Calibration** Auto Hide Upgrade Yes (default) Check for USB Upgrade Check for OTA Upgrade **Display Brightness** Auto OTA Upgrade Check Level 1 Install Upgrade Level 2 Clear Supressed Upgrade Level 3 (default) Time Zone Level 4 (Set Time Zone) Level 5 Cyrus Devices **LED Brightness Device Group** Level 1 Unlinked Level 2 Group A Level 3 (default) Group B Level 4 Group C Level 5 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 x Fs.

### 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

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.

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 CD player is not operating properly, disconnect the power and check all connections using the notes in this handbook. If problems persist, the checklist below may help.

If you are in any doubt, consult your dealer.

Playback problems			
Disc spinning with no sound	Switch off the power to the audio system and check that connections have been correctly made to the amplifier.		
	If used with an external D/A converter, check the connection from the 'DIGITAL OUT' socket to the D/A converter. Check also that power is applied to the D/A converter and amplifier and that the input selection and volume control of these units is correctly set.		
	Pause may have been set. Check for the pause symbol on the display.		
Indication 'Disc error' on the display, skipping tracks or distorted sound	The disc may be dirty or badly scratched. Try playing another disc. If the other disc plays ok, try cleaning the first disc.		
	The disc may not conform to the Red Book standard for CD audio discs. Check with the disc supplier or manufacturer to confirm that the disc has been manufactured to the Red Book standard.		
No display	The display may have been switched off at the handset. Press the display key again to restore the display and backlight.		
Standby is activated r	andomly		
Auto standby may have operated.	To save energy, the unit will automatically set to standby if no music plays for 20 minutes.		
No Remote Operation			
The handset may not be set to control a CD player.	Press the CD button and retry commands.		
Remote control lights flash			
This indicates that the batteries are flat.	Replace the batteries.		

### Specifications

#### **Power Supply**

Voltage:	100-230V
Standby	<0.5W
Power Consumption	30W
Safety Compliance	CE
EMC (230V)	CE
EMC (115V)	FCC

Analogue output	
DAC	ESS ES9039Q2M 32 bit DAC
SNR	117dBA
THD+N	0.002%
Enclosure	
Size (HxWxD) 88 x 220 x 365	5 mm (3.46" x 8.66" x 14.37")
Weight	5.2kg (11.5lbs)
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.











www.cyrusaudio.com/products/40CD