

CYRUS



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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. Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

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.

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

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:

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:

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.

WELCOME TO THE WORLD OF CYRUS!

Congratulations on your choice of Cyrus Audio-Visual 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. Registration takes only a few minutes, brings the added benefit of a full two year factory warranty and adds you to our mailing list for future product updates and upgrades. To register, visit www.cyrusaudio.com and click the 'Login/Register' link.

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

Preparations for Installation

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

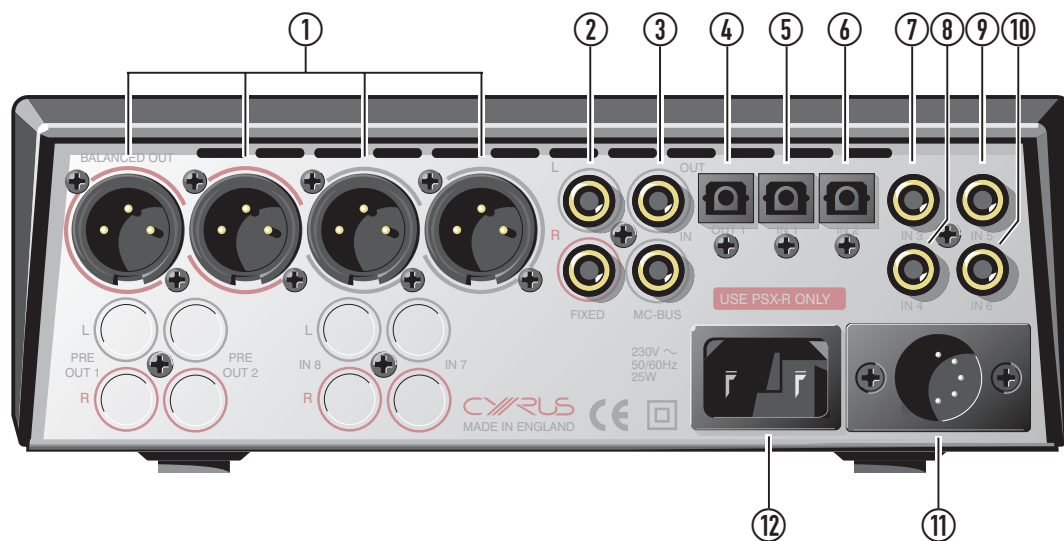
- Power Cable
- 2 MC-BUS phono cables

After removing these items, please retain the packaging.

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

IMPORTANT NOTE:- To avoid damage to your system, always ensure that mains power is disconnected from all system components until installation is complete.

INSTALLATION



Key to the rear panel drawing:

- | | |
|----------------------------|----------------------|
| 1. Dual balanced outputs | 7. Input 3 Digital |
| 2. Fixed level DAC outputs | 8. Input 4 Digital |
| 3. MC-BUS connections | 9. Input 5 Digital |
| 4. Optical digital output | 10. Input 6 Digital |
| 5. Input 1 Optical | 11. PSX-R connection |
| 6. Input 2 Optical | 12. AC mains inlet |

NOTE: When connecting inputs to the DAC X Signature, ensure that only digital audio sources are connected to 'Digital' inputs.

Connecting Digital Audio Sources

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

- Digital Audio output from a CD player
- DVD players (for replay of 2 channel PCM programs only)
- Digital tape/disc recorders
- Digital Radio
- Digital Satellite receivers (for replay of 2 channel PCM programs only)

Using a suitable Toslink optical or Digital phono interconnect, connect each digital audio source to one of the inputs 1~6. Make a note of the input number used for each source as the inputs of the DAC X Signature can be re-named at the set-up stage.

Connecting the DAC X Signature to an amplifier

The DAC X Signature requires an external amplifier or preamplifier to provide input selection and volume control functions for the system, and to drive the speakers. Two output options are available from the DAC X Signature via either standard RCA phono outputs, or via balanced audio connections.

CAUTION:- Do not connect power amplifiers to the Fixed output.

Connecting to amplifiers with phono inputs

With suitable phono interconnects, connect from the Fixed Out terminals ② to a suitable amplifier line input. All line level inputs, such as CD, TU, AU, AV are suitable. We recommend selection of an input that corresponds to the primary source connected to the DAC X Signature. If the primary source is a CD player, the CD input is recommended, if the primary source is a DVD player, the AV input is recommended etc. For Cyrus amplifiers with optional MC-BUS connection, see also the section 'MC-BUS connections'.

Connecting to amplifiers with balanced inputs

If the amplifier is equipped with balanced inputs, the balanced outputs of the DAC X Signature may be used. With suitable balanced interconnects fitted with XLR connectors, connect from the Balanced Output terminals ① of the DAC X Signature to the input of the amplifier. Dual balanced outputs are provided for connection to a second amplifier or recording device with balanced input.

Connecting to the Digital Output

An optical Digital Output ④ is provided for the connection of another digital device to the DAC X Signature. This may include such devices as a multi-channel surround decoder or a digital tape/disc recorder. The currently selected digital input signal will be routed to this output.

External Regulated Power Supply - PSX-R

The PSX-R is a unique DC power supply that will upgrade the sonic performance of your DAC X Signature and other Cyrus products. When a DAC X Signature / PSX-R combination is installed, the analogue section of the DAC stage is powered from this clean, stable power source while other requirements are supplied internally. This ensures complete isolation of the sensitive analogue sections reducing AC mains-borne noise and power supply ripple.

To connect the PSX-R to the DAC X Signature, plug the connector on the umbilical cord of the PSX-R into the Multi-Pole socket on the rear of the DAC X Signature ⑩. You will need a mains supply for both units.

NOTE: Connection of a PSX-R is detected automatically, so no internal adjustments are required.

MC-BUS

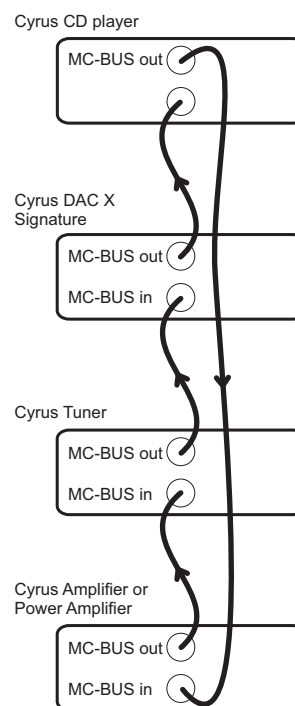
MC-BUS operation

Connecting the MC-BUS sockets ③ of the DAC X Signature to those of other Cyrus products is an option that provides unified system power control. With MC-BUS connections established the power function of all connected Cyrus components may be controlled from the system amplifier or its remote control.

All connected components will also set to Standby when the amplifier is set to Standby.

MC-BUS connection

An MC-BUS loop is established by connecting single phono cables from the MC-BUS output of one unit to the MC-BUS input of another. Complete the loop by returning the MC-BUS output of the final component to the MC-BUS input of the first. The diagram shows an example of MC-BUS wiring for a Cyrus DAC X Signature with a CD player, tuner and amplifier.

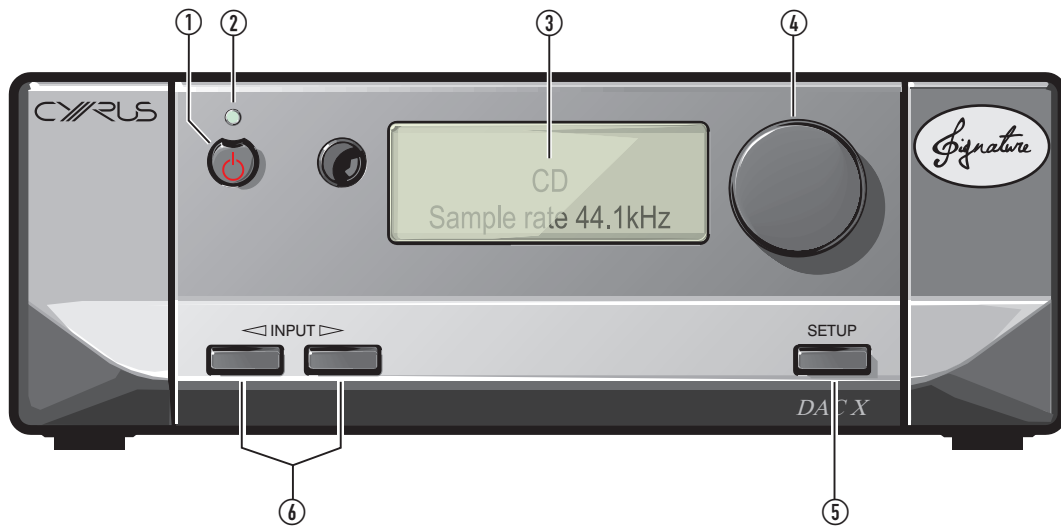


MC-BUS configuration

Within a Cyrus system, the DAC X Signature may be connected to either the CD, TU, AU or AV input, as selected by the user to best match their system components. To ensure that the DAC X Signature will power on when the correct input is selected, the MC-BUS response may be configured accordingly.

The factory response enables the DAC X Signature to switch on when the CD input is selected from the amplifier. To change the response, refer to the paragraph 'DAC X Signature Connected to' in the section 'Setting up the DAC X Signature'.

OPERATION



Key to the front panel drawing:

- 1. Standby key
- 2. Standby light
- 3. Display window
- 4. Setup adjust
- 5. Setup select
- 6. Input select

Switching On

The mains power to the DAC X Signature should normally be left on unless left unattended for a long period when the mains power at the wall socket should be switched off or the product disconnected from the AC supply. When power is applied, the STANDBY key ① is used for power control. The Standby light ② shows red when the DAC X Signature is in Standby and green when operational.

Selecting an input

Inputs may be selected from the front panel INPUT SELECT buttons ③. As a new input is selected the input name/number are displayed briefly. The main display indication for input can be selected from the two options available from the setup menu.

The factory default 'small input' display option will also identify the sample rate of the selected source and indicate 'Invalid Audio Format' for program material which the DAC X Signature will not decode (such as multi-channel digital sound from DVD players or satellite receivers).




Remote control operation


Cyrus system remote controls

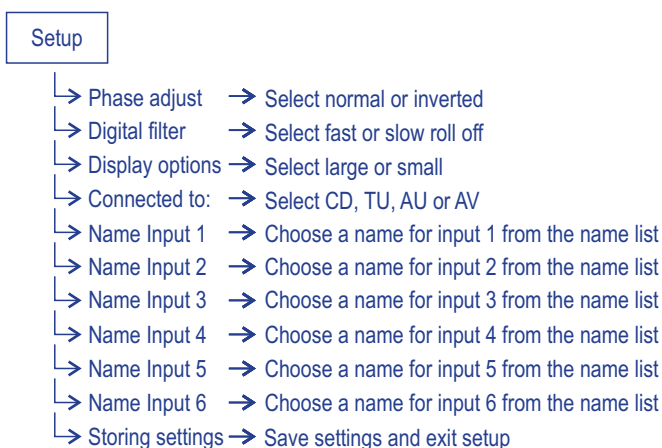
For convenience of operation, the DAC X Signature will respond to CD system select commands from a Cyrus amplifier or system remote control, switching on each time the CD system is selected and switching off with power off commands. If the DAC X Signature is connected to a different input (TU, AUX or AV) the remote response may be changed through the set-up menu to match the connected input. Refer to the paragraph 'DACX connected to:' in the 'Setting up the DAC X Signature' section to change the response.

SETTING UP

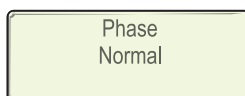
There are many configuration options available in the setup menu to customise the DAC X Signature to best match each individual system.

To enter the menu system, press the front panel SETUP key . Turn the Rotary control  to scroll through the options available on the display. Press the Rotary control  to select the option displayed. During the setup sequence, you can move to the next or previous step by pressing the Input up or down buttons.

Press the SETUP  key to exit setup and save any changed settings. Note that the setup sequence will exit, saving any changed settings after 10 seconds of inactivity or after the last option 'Name input 6' has been completed. The setup menu options are shown here –

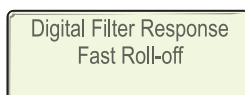


Phase adjust



This menu option sets the audio phase for the DAC. The factory setting is normal. Some listeners may prefer the inverted setting with their systems or for when playing particular recordings.

Digital Filter Response

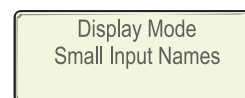


This menu option gives two settings for the digital filtering of the DAC stage. Choose your preference of Fast or Slow roll-off by auditioning some of your favourite tracks with each setting.

DACX Connected to:

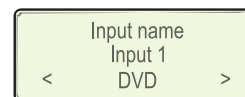
This option may be used to change the remote control and MC-BUS response of the DAC X Signature. From the factory, the DAC X Signature will power on in response to a CD select command from a Cyrus remote control or from a CD select signal sent via MC-BUS, so if the DAC X Signature is connected to the CD input of the amplifier, no change will be required to this setting. If, however, the DAC X Signature is connected to the TU, AU or AV inputs of the amplifier, the appropriate remote and MC-BUS responses may be selected through this menu option to ensure power-on compatibility with the amplifier.

Input display



There are two modes of display operation. The small setting will show a two-line display with the selected input in the display centre and the current sample rate/lock status at the bottom. The large setting will show a single line display with a larger input legend.

Input names



When the DAC X Signature leaves the factory, the input names are set to correspond to the rear panel connections, for example Input 1 will display as Input 1.

The name of any input may be changed to a choice from the following list-

- No source (off)
- LaserDisc, DVD, DVD 2, DVD-A, CD, CD 2
- Linkserver, Linkport
- Jukebox, Phono
- Tuner, DAB, TV, AV, Cyrus AV, Satellite, Satellite 2, Cable
- Video, VCR, VCR 2, Tape, MiniDisc, DAT
- PC, Games, Keyboard, Aux, AV Direct, Stream X

To change the names of the inputs, we recommend making a list of each input number with your preferred name from the choices above before setting the names.

No source is a special function name, used to name inputs that have no source connected to them. These input numbers will not then appear in the input selector sequence.

Restoring factory settings

You can also restore all configuration options to the initial default settings that were applied at the factory.

NOTE: This operation is not reversible.

To restore factory settings, disconnect mains power from the unit. Now re-connect mains power while holding down the Standby key.

TROUBLESHOOTING GUIDE

If your Cyrus DAC is not operating properly, disconnect the power and carefully check all connections and the set-up procedure using the notes in this handbook. If problems persist, the checklists below may help.

If you are in any doubt, consult your dealer.

No sound from any speaker with any source	
Amplifiers not switched on.	Switch on all of the system amplifiers.
Outputs to amplifiers not correctly connected.	Switch off the power to the audio system and check that connections have been correctly made from the DAC to the system amplifiers and speakers.
No sound from one source	
Incorrect source selected.	Check source selection.
Input named incorrectly.	Check that the input is correctly named.
Pause may have been set.	Check the source.
Incompatible audio format.	Check the audio format of the disc/tape to ensure it is compatible with the DAC.
Input not correctly connected.	Switch off the power to the audio system and check that connections have been correctly made from the source to the DAC.
Loud noises from the speakers with certain sources or discs	
Incompatible audio format.	Check the audio format of the disc/tape to ensure it is compatible with the DAC.
No sound from one loudspeaker	
Balance control at extreme limit.	Centralise Balance control.
Does your speaker have fuses?	Check speaker, replace fuses.

If a fault condition still remains, return the DAC (together with the PSX-R if you are using one) to your Cyrus appointed dealer or an authorised Service Centre.

SPECIFICATIONS

DAC X Signature

Power Supply

Voltage:As plate on rear of unit

Power consumption 14W

EMC & Safety Compliance.....CE

Enclosure

Dimensions (WxHxD)..... 215 x 75 x 365mm

Weight..... 3.8kg

Material Die cast chassis

Audio Performance

Inputs

Input voltage.....500mV pk-pk

Input Impedance75Ω

S/N ratio, (PCM in, 0dBFS)115dBA

THD+N, (PCM in, 0dBFS).....0.002%

Outputs

Output voltage (dig. in, vol max) Fixed out.....2.3V

Balanced out.....4.6V

Output Impedance Fixed out.....47Ω

Balanced out.....47Ω

WARRANTY

The warranty should be registered on-line within 8 days of purchase. No Dealer 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 disposal service or City Hall.





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