

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.

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 ${\bf @}$ 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-theart 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 'Loqin/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
- Remote Control Handset (DAC XP+ only)
- 2 AAA Batteries (DAC XP+ only)

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.

Model Differences and Upgrades

There are two model versions in the DAC X+ series –

- The DAC X+ upsampling audio D/A converter. The DAC X+ features dual mono DACs and a balanced audio design throughout the analogue domain. The DAC X+ is a high-end upgrade for a CD transport or other digital audio sources, connecting between the digital outputs of the sources and a preamplifier.
- The DAC XP+ shares digital technology with the DAC X+, adding a fully balanced preamplifier stage with additional analogue audio inputs. The DAC XP+ can drive a power amplifier directly and replaces a conventional analogue pre-amplifier in a high-end audio system.

This handbook includes instructions for the connection and operation of both the $DAC\ X_{+}$ and $DAC\ XP_{+}$. Refer to the index to find instructions for the model you own.

In sections that are common to both models, model differences are shown in the text where necessary.

A factory upgrade is available for the *DAC X+* to full *DAC XP+* specification, adding the balanced preamplifier stage.

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User Instruction Cyrus DAC X+

INSTALLATION (DAC X+)

Key to the rear panel drawing (Fig. 1)

- Dual balanced outputs
- Fixed level DAC outputs
- 3. MC-BUS connections
- 4. Optical digital output
- Input 1 Optical
- Input 2 Optical Input 3 Digital
- Input 4 Digital

Input 5 Digital 10. Input 6 Digital

11. PSX-R connection

12. AC mains inlet

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

Connecting Digital Audio Sources

The digital audio inputs of the DAC X+ 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+ can be re-named at the setup stage.

Connecting the DAC X+ to an amplifier

The DAC X+ 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+ 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+. 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+ may be used. With suitable balanced interconnects fitted with XLR connectors, connect from the Balanced Output terminals ① of the DAC X+ 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 (a) is provided for the connection of another digital device to the DAC X+. 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+ and other Cyrus products. When a DAC X+ / 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+, plug the connector on the umbilical cord of the PSX-R into the Multi-Pole socket on the rear of the DAC X+ ®. 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 Connections

MC-BUS operation

Connecting the MC-BUS sockets 3 of the DAC X+ 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 drawing in Fig 3 shows an example of MC-BUS wiring for a Cyrus DAC X+ with a CD player, tuner and amplifier.

MC-BUS configuration

Within a Cyrus system, the DAC X+ 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+ will power on when the correct input is selected, the MC-BUS response may be configured accordingly.

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

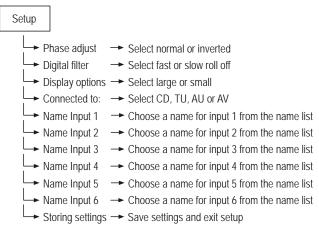
Cyrus DAC X+ User Instruction

SETTING UP THE DAC X+

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

The setup sequence is activated by pressing the front panel setup button ①. Each press of the setup button will step through each available setup option until 'Storing settings' is shown on the display. When each setup screen is displayed, changes may be made to the settings by moving the rotary knob.

Settings will be stored automatically after 5 seconds of inactivity. The setup menu options are shown here –



Some examples of the setup display screens are shown in Fig 4.

Phase adjust (Fig 4a)

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 (Fig 4b)

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: (Fig 4c)

This option may be used to change the remote control and MC-BUS response of the $DAC\ X_+$. From the factory, the $DAC\ X_+$ 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 $DAC\ X_+$ is connected to the CD input of the amplifier, no change will be required to this setting. If, however, the $DAC\ X_+$ 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 (Fig 4d)

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 (Fig 4e)

When the $DAC\ X_{+}$ 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.

Cyrus DAC X+ User Instruction

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 reconnect mains power while holding down the Standby key.

OPERATION (DAC X+)

Key to the front panel drawing (Fig.2a):

- Standby key
- 2. Standby light
- 4. Display window
- 5. Setup adjust
- Setup select

Switching On

The mains power to the DAC X+ 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.

9. Input select

When power is applied, the STANDBY key ① is used for power control. The Standby light ② shows red when the DAC X+ is in Standby and green when operational.

Selecting an input

Inputs may be selected from the front panel INPUT SELECT buttons ①. 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+ 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+ 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+ 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 'DAC X+ connected to:' in the 'Setting up the DAC X+' section to change the response.

Cyrus DAC XP+ User Instructions

INSTALLATION (DAC XP+)

Key to the rear panel drawing (Fig. 1)

Dual balanced preamp outputs Input 5 Digital Fixed level DAC outputs 10. Input 6 Digital 3. MC-BUS connections 11. PSX-R connection Optical digital output 4. 12. AC mains inlet Input 1 Optical 13. Input 7 Analogue Input 2 Optical 14. Input 8 Analogue Input 3 Digital 15. Dual preamp outputs Input 4 Digital

NOTE: When connecting inputs to the *DAC XP+*, *e*nsure that only digital audio sources are connected to 'Digital' inputs.

Connecting Digital Audio Sources

The digital audio inputs of the $DAC\ XP_{+}$ 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 XP+* can be re-named at the set-up stage.

Connecting Analogue Audio Sources

Analogue Inputs 7-8 are available for the connection of stereo analogue audio sources to the $DAC\ XP_{\pm}$. Inputs 7-8 are intended for use with analogue program sources which include-

- Analogue output from CD/DVD Players
- Televisions
- Analogue Satellite Receivers
- FM Radio tuners
- Analogue VCRs/Tape recorders
- Surround decoders

Connecting Power amplifiers

External power amplifiers are necessary to drive the system speakers. Both stereo and high power monoblock *Cyrus* power amplifiers are available to partner the *DAC XP+* and a choice of RCA phono or balanced outputs is provided.

NOTE:- Take care to connect each of the *DAC XP+* output channels to the correct power amplifier and loudspeaker.

Connecting to power amplifiers with phono inputs

With suitable phono interconnects, connect from the Pre Out terminals [®] to the power amplifier inputs. The system loudspeakers may then be connected to each power amplifier. Dual outputs are provided to enable the connection of two amplifiers for bi-amping.

Connecting to power amplifiers with balanced inputs

With suitable Balanced interconnects, connect from the Balanced Output terminals ① to the power amplifier inputs. The system loudspeakers may then be connected to each power amplifier. Dual outputs are provided to enable the connection of two amplifiers for bi-amping.

Fixed output

The Fixed output is connected directly to the internal DAC stage of the DAC XP_{+} and bypasses the internal preamplifier and volume control. It may be used to feed the DAC stage output to an external system preamplifier, or for high quality tape recording from digital sources.

NOTE:- Analogue inputs 7 and 8 are not routed to the Fixed output.

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

Connecting a Cyrus Surround Sound decoder

In a *Cyrus* multi-channel surround sound system the surround decoder may be connected through the *DAC XP+* to share the same front channel power amplifiers.

In this case, connect a stereo phono interconnect from the front channel outputs of the surround decoder to the Input 7 sockets ® of the DAC XP+. For this system to function correctly both the DAC XP+ and the Cyrus surround decoder must be included in an MC-BUS connection loop and the 'Cyrus AV' input name must be set for Input 7 (see 'MC-BUS' section and 'Input names' in the 'Setup menu' section).

When set up in this way, the DAC XP+ will automatically check for the presence of the decoder when the 'Cyrus AV' input is selected, then lock the DAC XP+ volume setting to an appropriate level.

Connecting a Surround Sound decoder (other brand)

If your system includes a multi-channel surround sound decoder (but not a *Cyrus* model), it may be connected through your DAC to drive the front channel speakers.

In this case, connect a stereo phono interconnect from the front channel outputs of the surround decoder to one of the Analogue Inputs of the DAC. For this system to function correctly, the 'AV Direct' input name must be set for the input used (see 'Input names' in the 'Setup menu' section).

When set up in this way, the DAC will automatically lock its volume setting to a fixed level to match the output of the surround decoder.

CAUTION: The 'AV Direct' input name should only be used for surround decoders that include a volume control, as the volume control of your DAC will be fixed at a very high level.

Connecting to the Digital Output

An optical Digital Output ① is provided for the connection of another digital device to the *DAC XP+*. 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 which will upgrade the sonic performance of your *DAC XP+* and other *Cyrus* products. When a *DAC XP+I 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 $DAC\ XP+$, plug the connector on the umbilical cord of the PSX-R into the Multi-Pole socket on the rear of the $DAC\ XP+$ 1. 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 Connections

MC-BUS operation

Connecting the MC-BUS sockets 3 of the $DAC\ XP+$ in an MC-BUS system provides unified system power control. With MC-BUS connections established the power function of all connected Cyrus components may be controlled from the $DAC\ XP+$ front panel or remote control. Refer to the following table for Cyrus components that will be activated by the $DAC\ XP+$ when the inputs have been named as listed -

Input name	Power on response	
CD	CD players, power amplifiers	
TUNER	Tuners, power amplifiers	
AV	DVD players, power amplifiers	
CYRUS AV	DVD players, surround decoders, power amplifiers	
DVD	DVD players, power amplifiers	

Follow the instructions in section 'Setting up the $DAC\ XP+'$ to set the listed input names.

All connected components will also set to Standby when the DAC XP+ 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 drawing in Fig 3 shows an example of MC-BUS wiring for a *Cyrus DAC XP+* with a CD player, tuner and power amplifier.

Cyrus DAC XP+ User Instructions

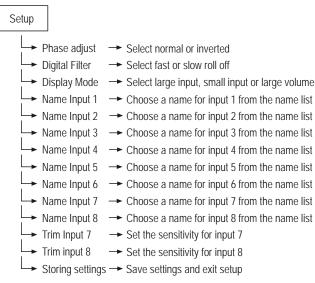
SETTING UP THE DAC XP+

There are many configuration options available in the setup menu to customise the $DAC\ XP_+$ to best match each individual system.

The setup sequence is activated by pressing the front panel set up button ①. Repeated pressing of the setup button will step through each available setup option until 'Storing settings' is shown on the display. When each setup screen is displayed, changes may be made to the settings by rotating the front panel volume knob.

The setup sequence will cancel after 5 seconds of inactivity.

The setup menu options are shown here -



Some examples of the setup display screens are shown in Fig 4.

Phase adjust (Fig 4a)

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.

Filter adjust (Fig 4b)

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.

Display mode (Fig 4c)

There are three modes of display operation.

The 'small input' setting will show a three line display with the volume reading at the top of the display, the selected input in the display centre and the current sample rate/lock status at the bottom.

The 'large input' setting will show a two line display with the volume reading at the top and a larger input legend below.

The 'large volume' setting will display large volume characters at the bottom of the screen with the bargraph above.







Input names (Fig 4d)

When the *DAC XP+* 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.

There are three special function input names marked *.

'No source' is used to name inputs which have no source connected to them. These input numbers will not then appear in the input selector sequence.

'Cyrus AV' is reserved for the connection of Cyrus surround sound decoders. When a Cyrus surround decoder is connected to an analogue input named 'Cyrus AV' the *DAC XP+* will check the system for the presence of a Cyrus surround decoder and, if found, lock out its volume control at a precise setting. Normal volume operation will be restored when any other input is selected

'AV Direct' is reserved for the connection of non-Cyrus surround decoders to an analogue input. This input name must only be used for this purpose as the volume level will lock to a very high setting (-6dB) when AV Direct is selected.

Input trims (Fig 4e)

It is possible to adjust the sensitivity of analogue inputs 7 and 8 by selecting the appropriate trim option from the menu. This enables the volume level when playing low or high output source components such as tape decks or tuners to be equalised with the digital system sources.



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 reconnect mains power while holding down the Standby key.

Cyrus DAC XP+ **User Instructions**

OPERATION (DAC XP+)

Key to the front panel drawing (Fig.2):

- Standby key
- Standby light
- 3. Remote eye
- Display window
- Setup select 7. Channel balance select
 - 8. Mute
 - Input select
- Level control and setup adjust

Switching On

The mains power to the DAC XP+ 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 XP+ is in Standby and green when operational.

Selecting an input

Inputs may be selected from the front panel INPUT SELECT buttons ① or with the remote control INPUT SELECT keys. As a new input is selected the input name/number are displayed briefly. The main display indication for input/volume can be selected from the three options in 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 XP+ will not decode (such as multi-channel digital sound from DVD players or satellite receivers).

Volume and Balance

The level control ⑤ of the DAC XP+ performs the dual functions of volume and balance.

Volume: In normal mode the level control sets the volume in 1dB steps. A bargraph and a numeric scale at the top of the display window show the current volume setting. The last used volume setting is stored when the unit is

If the volume is left at an abnormally high volume level before entering standby, the level will be reduced automatically to a safe level of -15dB for next use.

Balance: Press the balance control key ① to change the mode of the front panel rotary control ® to set Left/Right Balance. The volume display will also change to show a graphic and numeric display of the balance setting.

Mute

Pressing the MUTE Key ® will mute the volume to minimum level without disturbing the existing volume setting. When muted the display will show that volume is muted. Move the volume knob up or press the Mute key to fade back up to the original volume setting.

Programmable Input Sensitivity

You may find an audible difference in level when switching from digital inputs to one of the two analogue inputs due to the differing outputs of your source components. The unique calibration memory of the DAC XP+ can be programmed to match the sensitivity of these inputs with reference to the digital inputs. Input sensitivity settings are made through the setup menu. Refer to the section 'Setting up the DAC XP+' for more details.

OPERATION WITH THE AVRS7.2 REMOTE CONTROL (DAC XP+)

The *DAC XP+* is supplied with the *Cyrus AVRS7.2* remote control which will control *Cyrus* CD players, DVD players, tuners and surround sound decoders in addition to the *DAC XP+*.

System select keys

Commands may be sent to different *Cyrus* system components by selecting the appropriate system select key on the handset. These keys are marked CD, TU/DAB, AV, AV-S and AV SETUP. The CD, TU/DAB, AV, AV-S keys will flash when any command is transmitted to show which type of product is under control. Commands to a Surround Decoder from the AV SETUP system will flash the AV-S indicator.

To identify which type of product is under control, the CD, TU/DAB, AV, AV-S keys flash when any command is transmitted. Commands to a surround decoder from the AV SETUP system will flash the AV-S indicator.

The remote control will send commands to most products within the *Cyrus* range and is compatible for use within two types of *Cyrus* system -

- Stereo audio systems including a DAC XP+ as preamplifier.
- Multi-channel AV systems including both a DAC XP+ digital preamplifier and a Cyrus surround decoder.

Refer to the following section as appropriate to the configuration of your system.

Controlling a stereo system

A stereo system may include the $DAC\ XP_+$, a CD player, tuner or DVD player. The following commands may be sent -

- Pressing CD will send commands to a Cyrus CD player. This key will also switch on the DAC XP+ and select an input named CD.
- Pressing TU/DAB will send commands to DAB radios or FM Tuners.
 This key will also switch on a DAB radio or FM Tuner and select an input named Tuner. To change between DAB or FM operation, hold down the TU/DAB key for 3 seconds until the light changes colour. The key will light green when set for DAB commands or red when set for FM tuner commands. NOTE:- The FM band of a DAB radio is not selected in this way, the BAND key is used for this purpose.
- Pressing AV will send commands to a DVD player. This key will also switch on a DVD player and select an input named AV, Cyrus AV or AV Direct on the DAC XP+.

The *DAC XP+* will respond to the volume, balance, mute and input keys when any of the above systems are selected. In the above examples, direct access input select will only function when these inputs have been named using the *DAC XP+* setup menu.

NOTE - The AV-S and AV SETUP keys are not used to control this system.

Controlling a multi-channel AV system that includes both a DAC XP+ and a Cyrus surround decoder

This system will include both a *DAC XP+* and a Cyrus surround decoder with a CD player, tuner or DVD player. In such a system it is expected that -

- Stereo sources will be connected directly to the inputs of the DAC XP+.
- The DVD player will connect directly to the surround decoder and the front channel outputs of the surround decoder will connect to the AV input of the DAC XP+.
- An MC-BUS connection loop will also be set up between at least the DAC XP+ and the surround decoder.

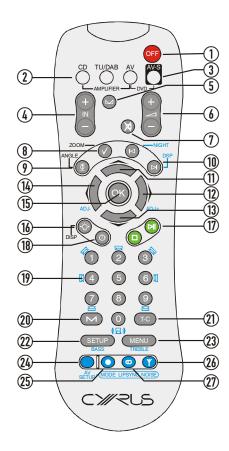
The following commands may be sent -

- Press CD to send commands to CD players. This key will also switch
 on a CD player and select an input named CD on the DAC XP+.
 Volume, balance, input and mute commands will also be sent to the
 DAC XP+.
- Pressing TU/DAB will send commands to DAB radios or FM Tuners.
 This key will also switch on a DAB radio or FM Tuner and select the TU input of an amplifier. To change between DAB or FM operation, hold down the TU/DAB key for 3 seconds until the light changes colour. The key will light green when set for DAB commands or red when set for FM tuner commands. NOTE:- The FM band of a DAB radio is not selected in this way, the BAND key is used for this purpose.

- Press AV-S to send commands to a DVD player. This key will also switch on a DVD player and select the surround decoder via the 'Cyrus AV' input of the DAC XP+. Volume, balance, input and mute commands will be sent to the surround decoder.
- Press AV SETUP to activate the blue keys and those with additional blue legends to send setup commands to the surround decoder, such as speaker balance settings, mode settings and input naming.

In the above examples, input select will only function when these inputs have been named using the *DAC XP+* setup menu.

NOTE - The AV key is not used to control this system.



Cyrus DAC XP+ User Instructions

CD MODE DAB MODE TU MODE (FM) Power off all systems
CD, DAB, TU or AV COMMAND MODE SELECT 2 DAC XP+, CD, DAB, FM tuner, DVD power on DAC XP+ input select AV SURROUND COMMAND MODE SELECT – see table below 3 DAC XP+ input select 4 DAC XP+ balance select 5 6 DAC XP+ volume control DAC XP+ mute 8 Select station on display 9 Audio phase invert 10 Next/previous track Display next/previous station Next/previous preset Next track Next preset 11 12 Search forward Cursor keys for navigating the on-Scan up 13 screen menu options Previous preset Previous track 14 Scan down Search reverse OK key to select menu options 15 16 Display off Display mode Display off 17 Play/pause/stop Play/pause for replay from memory card Display mode Timer record mode 18 19 Numeric keypad Numeric keypad Preset select 20 Memory store Preset information Preset store 21 22 23 Menu select AV SETUP MODE SELECT - see table below 24 25 Record to memory card 26 DAB/FM/Memory card band select 27 Mono/stereo when playing FM Stereo/mono

DAC XP+, CD, DAB and FM tuner commands

*early Cyrus CD players will respond to Play/Stop only

AV-SETUP MODE

	AV (DVD & allip) WODL	AV-3 (DVD & decode) NODE	AV-3LTUF WOODL		
1	Power off all systems				
CD, DAB, TU or AV COMMAND MODE SELECT					
2	2 DAC XP+, CD, DAB, FM tuner, DVD power on				
DAC XP+ input select					
3	AV-S COMMAND MODE SELECT				
J	DVD and Surround decoder power on				
4	DAC XP+ input select +/- Surround decode		er input select +/-		
5	DAC XP+ balance mode		-		
6	DAC XP+ volume control Surround decoder volume control		er volume control		
7	DAC XP+ mute Surround decoder mute		ecoder mute		
8			-		
9	DVD Quick access angle		-		
10	DVD Next/previous chapter/title		Decoder Night & DSP functions		
11					
12	Cursor keys for navigating the DVD on-screen menu options		Adj +		
13			-		
14			Adj -		
15	OK key to select DVD menu options		-		
16	16 DVD On-screen display		-		
17	17 DVD transport functions		-		
18	18				
19	DVD Chapter/title direct access		Speaker select keys		
20	DVD Program store -		-		
21	DVD Title or Chapter mode		-		
22	. .		Bass control select		
23			Treble control select		
24	AV SETUP MODE SELECT				
		Surround decoder power on			
25		•	Mode select		
26	-		Lipsync adjust		
27	-		Decoder noise mode		

AV-S (DVD & decoder) MODE

DAC XP+, DVD and AV -Surround commands AV (DVD & amp) MODE

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 <i>DAC</i> 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 <i>DAC</i> .			
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 <i>DAC</i> .			
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 <i>DAC</i> .			
No sound from one loudspeaker				
Balance control at extreme limit.	Centralise Balance control.			
Does your speaker have fuses?	Check speaker, replace fuses.			
Power amplifier faulty (DAC XP+ only).	The power amplifier(s) can be tested by exchanging left and right output channels from the <i>DAC XP+</i> . Switch off the power to the audio system before making any changes to the connections.			
Remote control not operating				
Remote control not operating (lights on remote are weak or not flashing when commands are sent).	Check batteries.			
Remote control not operating (lights on remote are flashing correctly).	Ensure that the correct system has been selected on the remote for the system components you are operating.			

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

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.



Specifications (DAC X+)

Power Supply	
Voltage:	As plate on rear of unit
Power consumption (Standby) Power consumption (Operational)	12W
EMC & Safety Compliance	CE
Weight	
Audio Performance	
Inputs	
Input ImpedanceS/N ratio, (PCM in, 0dBFS)	
Outputs	
Output voltage (dig. in, vol max)	Fixed out 2.3V Balanced out 4.6V
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Specifications (DAC XP+)

Power Supply	
Voltage:	As plate on rear of unit
EMC & Safety Compliance	CE
Enclosure	
Weight	215 x 75 x 365mm 6.5Kg Die cast chassis
Audio Performance	
Analogue Inputs	
Input Impedance	
Input ImpedanceS/N ratio, (PCM in, 0dBFS)	
Analogue Outputs Output voltage (dig. in, vol max)	Fixed out2.3V
	Pre out

