

# PSU-XR USER GUIDE

Firmware version V1.1

## CONTENTS

IMPORTANT! READ BEFORE OPERATING THIS EQUIPMENT! ...1	FIRMWARE .....7
Power supply .....2	Checking the version from the PSU-XR.....7
Servicing .....2	Checking the version from a connected Cyrus product.....7
Product service centres .....2	Updating the firmware .....7
FCC Notice .....3	TROUBLESHOOTING GUIDE .....8
WELCOME TO THE WORLD OF CYRUS .....4	Standby/Status indicator doesn't light .....8
Preparations for Installation .....4	Standby/Status indicator flashes .....8
Compatibility .....4	Standby/Status indicator remains red .....8
Introduction.....4	Standby/Status indicator lights blue.....8
INSTALLATION .....5	SPECIFICATIONS.....8
Key to the rear panel drawing .....5	Power Supply.....8
Important – read before making any connections .....5	Power Consumption .....8
Connecting a PSU-XR to Cyrus Products.....5	Enclosure .....8
Connecting to the AC mains supply.....5	Output voltage .....8
OPERATION .....6	WARRANTY.....9
Key to the front panel drawing.....6	WEEE.....9
Front panel controls .....6	
Standby/Status indicator colour and brightness .....6	
Power control .....6	
Mains power.....6	
Standby/Status indication .....6	
Auto Standby.....6	

## **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 PSU-XR 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 PSU-XR safely and correctly.

## **Preparations for Installation**

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Before installing your Cyrus PSU-XR check that the following items are included in the accessory box.

- Mains Power Cable(s)
- 1 x Power interconnect
- 1 x Firmware update cable
- Quick-Start guide

After removing these items, please retain the packaging.

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

## **Compatibility**

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The PSU-XR power supply upgrade is compatible with all Cyrus audio components that include a back panel PSU-XR connection labelled 'USE PSU-XR ONLY'.

One PSU-XR is required to upgrade each compatible Cyrus system component.

## **Introduction**

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The PSU-XR is a versatile power supply upgrade that can be applied to enhance the power supply capacity and sound quality of many products in the Cyrus range.

In use the PSU-XR will communicate with the connected component through the power interconnect and configure its multiple power supplies to enhance the power supply of the connected product.

## Installation



### Key to the rear panel drawing

1. Power inlet
2. PSU-XR Power output
3. Upgrade port

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### 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 the system interconnects.

### Connecting a PSU-XR to Cyrus Products

**CAUTION:** Use only the power interconnect supplied with the PSU-XR when connecting a PSU-XR to a compatible Cyrus product. Use of other interconnect cables may cause a safety hazard.

**NOTE:** The power interconnect is non-reversible.

- Connect the power interconnect to the outlet on the back panel of the PSU-XR marked 'PSU-XR OUTPUT'. Tighten the screw latches on the connector finger tight.
- Locate the power inlet marked 'USE PSU-XR ONLY' on the back panel of the partnering Cyrus product.
- Place the PSU-XR in a position where the free end of the power interconnect can reach this power inlet without stretching the cable or stressing the connectors.
- Connect the power interconnect to the power inlet. Tighten the screw latches on the connector finger tight.

### Connecting to the AC mains supply

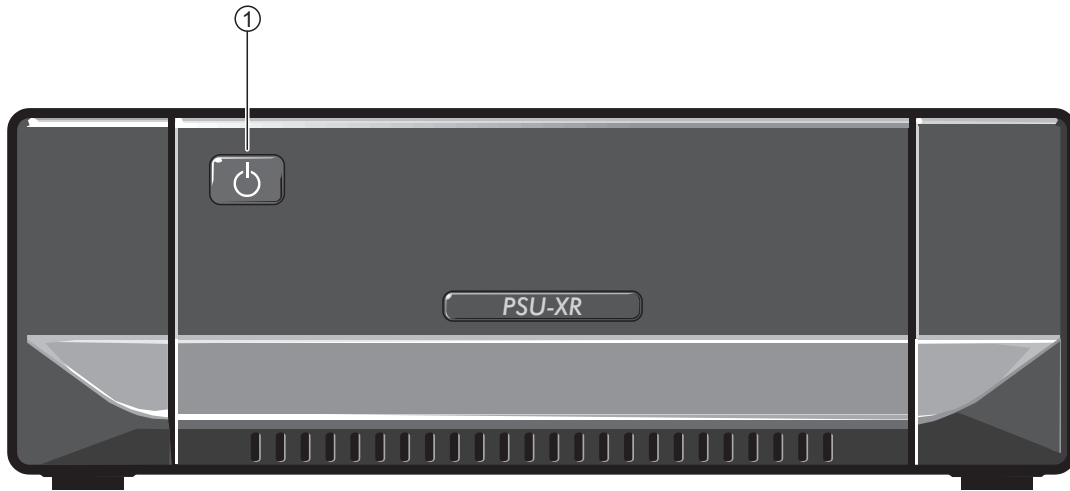
**NOTE:** When a PSU-XR is in use, both the PSU-XR and the partnering Cyrus product will require connection to the mains supply.

- Connect the mains power cable to the power inlet on the back panel of the PSU-XR.
- Connect the remaining system power cables including connected PSU-XRs to suitable AC power outlets.

*Power connections to PSU-XRs and other system components can be made in any sequence.*

**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/Status indicator

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### Front panel controls

There are no user controls on the PSU-XR front panel. All functions including standby and configuration are controlled by the connected Cyrus product via the power interconnect cable.

#### Standby/Status indicator colour and brightness

The Standby/Status indicator brightness and colour settings will automatically be set to match the indicator brightness and colour settings on a connected Cyrus product.

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### Power control

#### 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/Status indication

When mains power is connected, the Standby/Status indicator will initially flash to show the firmware version (refer to the 'Firmware' section of this user guide for more information), then light red as standby is set.

When a connected product switches on the Standby/Status indicator will change to the colour of the connected Cyrus product. This confirms that power is now being supplied from the PSU-XR.

NOTE: If the PSU-XR remains in Standby then a firmware update may be required for the connected Cyrus product. Refer to the 'Support' pages of the Cyrus website [www.cyrusaudio.com](http://www.cyrusaudio.com) to determine whether an update is required.

#### Auto Standby

There is no energy saving auto-standby setting for the PSU-XR as it will always set to the same power state as the Cyrus product it is connected to.

If auto-standby is required it can be enabled at the connected product.



## Firmware

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From time to time there may be a requirement to check the firmware version installed in the PSU-XR. This may be necessary to ensure compatibility with connected Cyrus products or to assist with technical or service questions.

### Checking the version from the PSU-XR

The PSU-XR firmware version is displayed as a code on the Standby/Status indicator when mains power is first connected. The version is read as follows -

- Connect mains power.

*After a short delay the Standby/Status LED will indicate the firmware version with a sequence of red flashes (the first digit) followed by a sequence of green flashes (the second digit). The absence of green flashes indicates the second digit is 0.*

*The sequence ends with the Standby/Status indicator lighting red continuously to indicate standby mode is now set.*

For example -

1 x red flash followed by 2 x green flashes followed by continuous red (standby) indicates V1.2.

2 x red flashes followed by continuous red (standby) indicates V2.0.

### Checking the version from a connected Cyrus product

The PSU-XR firmware version may also be read directly from any connected Cyrus product which has a front panel display screen.

- Open the settings menu of the connected Cyrus product.
- Select the PSU-XR menu option.

*Firmware and hardware version information will be displayed for the PSU-XR.*

### Updating the firmware

If an updated firmware version is available, this may add new features, further enhance compatibility with the Cyrus range or fix operational issues.

If new firmware is available from the 'Support' pages of the Cyrus website [www.cyrusaudio.com](http://www.cyrusaudio.com), this will be packaged with other documents including -

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

NOTE: Updates to the PSU-XR firmware may also require a firmware update to be made to the connected Cyrus product. When updating the firmware in a PSU-XR always check if there is an update available for the connected Cyrus product at the same time and update if necessary.

## Troubleshooting guide

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

If you are in any doubt, consult your retailer.

<b>Standby/Status indicator doesn't light</b>	
If the Standby/Status indicator doesn't light mains power may not be connected.	Check that the connections to mains power are secure at both the back panel connector and the mains outlet.
	If the mains plug is fused, check the fuse and if necessary replace with the correct specification 5A fuse.
<b>Standby/Status indicator flashes</b>	
The Standby/Status indicator flashes when the PSU-XR is first connected to mains power.	This is normal and does not indicate a fault or a requirement to update firmware. The Standby/Status indicator flashes a code to display the current firmware version when first connected to mains power.
<b>Standby/Status indicator remains red</b>	
The Standby/Status indicator remains red when the connected Cyrus product is switched on.	Check that the connectors at each end of the power interconnect are fully engaged at both ends and that the latches are tightened.
	The firmware of the PSU-XR and/or the connected Cyrus product may require an update. Refer to the 'Firmware' section for more details to check the firmware version and update if necessary.
<b>Standby/Status indicator lights blue</b>	
This indicates that an error has been identified within the PSU-XR. A PSU-XR error message will also be displayed on connected Cyrus products which have a front panel display screen.	
The PSU-XR may have overheated.	If the PSU-XR is very hot to touch, disconnect mains power and leave it to cool for 20 minutes before re-connecting. The error indication should clear.
A functional error has been identified within the PSU-XR.	Disconnect mains power and reconnect after 10 seconds. Switch on the connected Cyrus product and re-check for the error indication. If the blue indicator persists, return the PSU-XR to your Cyrus retailer to arrange for service/repair.

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

## Specifications

### Power Supply

Voltage ..... 220-230V Products ..... 220V-240V  
115V Products ..... 110V-120V

### Power Consumption

Standby..... <0.5W  
Maximum ..... 750W  
Safety compliance ..... CE  
EMC (230V)..... CE  
EMC (115V)..... FCC

### Enclosure

Size (HxWxD) ... 75 x 215 x 355 mm (2.95" x 8.46" x 13.98")  
Weight ..... 7.7kg (17lbs)  
Material..... Die cast chassis

### Output voltage

Low voltage supply .... Standby mode ..... +5V DC  
Operational..... +5V DC  
Fixed voltage supply .. Standby mode .....0V  
Operational..... ±24V DC  
Variable supply ..... Standby mode .....0V  
Regulated.....±10V to ±45V DC  
Unregulated.....±45V or ±56V DC

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

## Warranty

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The warranty period is three 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

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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**

**BUILDING A BETTER  
MUSIC EXPERIENCE**

[www.cyrusaudio.com](http://www.cyrusaudio.com)



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