

## Product Objective

The Classic PRE is the latest update to a preamplifier that has been part of the Cyrus product range for over a decade.

The objective was to create a significant step up in performance from previous versions by using everything that we learnt when developing the fantastic XR Series, but retaining the familiar design of the Classic series. The circuit design has been completely re-designed and the majority of the internal components have been upgraded by the Cyrus R&D team, which has resulted in sound improvements that will help the Classic series retain a loyal fan base for years to come.

## Features and benefits

### Connectivity

- 4 x Analogue line level inputs
- 1 x Phono MM input for vinyl turntable
- 2 x Coaxial digital inputs via RCA phono
- 2 x Optical digital inputs via Toslink
- True balanced outputs via XLR connectors
- Unbalanced outputs
- Fixed/Recording output
- Headphone output via 3.5mm jack
- MC-BUS connection (control integration with Cyrus system)
- PSX-R upgrade connection
- Firmware upgrade port

### Analogue preamplifier

The analogue preamp features relay input selection for the five analogue inputs and a precision gain control for volume. The design is intentionally wide bandwidth.

### Phono MM input

The phono MM input stage design features dual active gain stages and passive RIAA equalisation.

### Digital to analogue conversion

The digital input stage features the award-winning QXR DAC. Input options include 2 x coaxial digital and 2 x optical digital inputs.

### Balanced and unbalanced output options

The unbalanced outputs are provided for close wired systems where the power amplifier is located close to the Classic Pre. The balanced outputs are recommended for longer cable runs in systems where the Classic Pre is driving power amplifiers placed close to the system speakers or active speakers.

### High capacity power supply

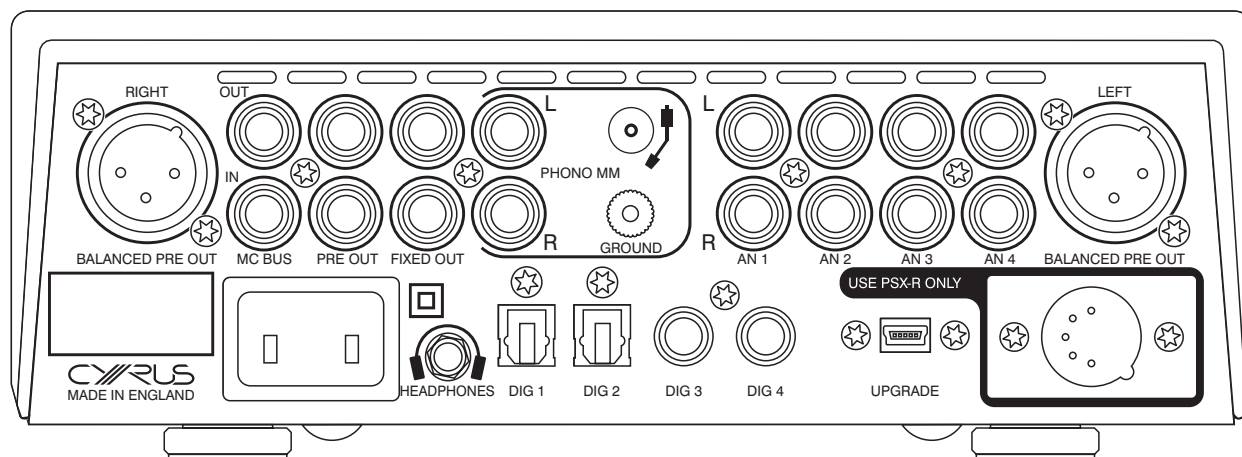
The Classic Pre power supply includes a 74VA toroidal power transformer delivering power to a high capacity power supply reserve. Within the circuit design, a total of 11 independent power supply regulators regulate, then sub-regulate quiet power. Digital control circuits are assigned a separate mains power supply, completely isolated from the signal circuitry.

### PSX-R port

The Classic Pre includes a port for the PSX-R power supply. Power from the PSX-R is routed internally to the analogue stages of the preamplifier to provide a more stable, low-noise power supply for the analogue preamp and post-DAC stages of the D/A converter.

# Classic PRE Preamplifier

CYRUS



## Specifications

### EAN

230V version .....	5060020434556
115V version .....	5060020434549

### Power Supply

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

### Power Consumption

Standby .....	<0.5W
Maximum .....	25W

### Enclosure

Dimensions (WxHxD) .....	215 x 75 x 365mm
Weight.....	4.4kg
Material.....	Die cast chassis

### Line audio performance

Input Impedance.....	Line .....	28kΩ
Output impedance.....	Line .....	47Ω
Output impedance.....	Bal (per phase) .....	47Ω
Max input voltage .....	Line .....	2.5V
System gain .....	Line .....	6dB
System gain .....	Bal.....	12dB
Max output voltage.....	Line .....	2.5V
Max output voltage.....	Bal.....	5V
Frequency Response (-3dB)....	Line .....	<0.5Hz, >100kHz
Signal to Noise Ratio (unwtd) .	Line (ref 2V out) .....	110dB
THD.....	Line (ref 2V out) ..	<0.001%

### Phono audio performance

Input Impedance.....	47kΩ
Max input voltage ..... (1kHz) .....	25mV
Phono stage gain..... (1kHz) .....	40dB
RIAA tolerance .....	<0.5dB
Signal to Noise Ratio (unwtd) . (ref 2V out) .....	83dB
THD.....	<0.07%

### Digital audio performance

Input voltage .....	500mV pk-pk
Input Impedance.....	75Ω
Sample rate range (SPDIF) .....	32k- 192k
Audio formats (SPDIF).....	PCM stereo
S/N ratio (unwtd) .....	(Pre-out, 0dB fs) .....>97dB
THD.....	(Pre-out, 0dB fs) ..<0.003%

### Headphone performance

Recommended headphone impedance .....	16Ω- 330Ω
Output power .....	(16Ω load) ..... 138mW
Max output voltage.....	(330Ω load) ..... 1.85V
Signal to Noise Ratio (unwtd) .	(35mW//16Ω)..... 90dB
THD.....	(35mW//16Ω)..... <0.01%

All voltage and power specifications in this section are RMS unless stated otherwise.

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

