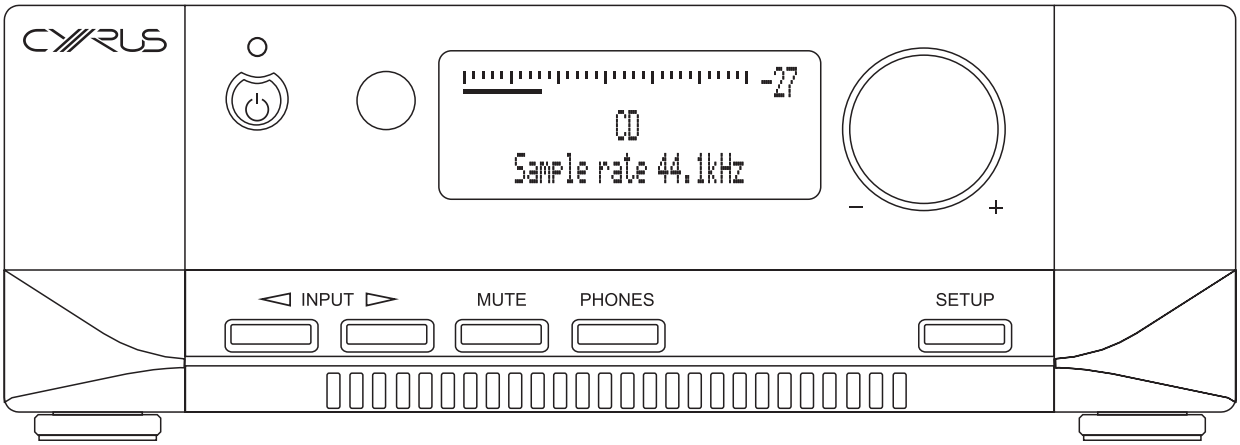
Classic PRE Preamplifier



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

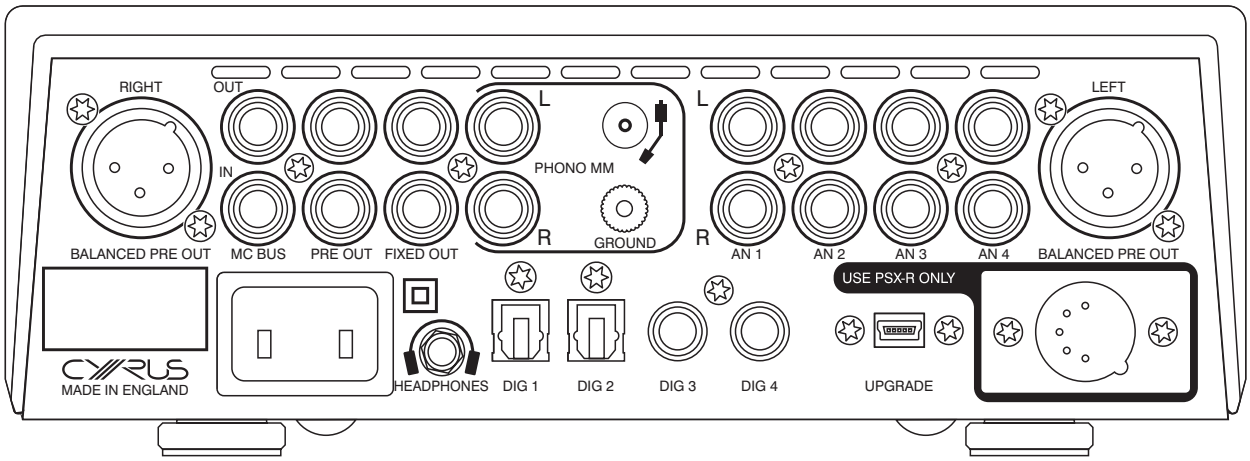
The Classic Pre power supply includes a 74VA toroidal power transformer delivering power to a high capacity power supply reserve. Within the circuit design, a total of 11 independent power supply regulators regulate, then sub-regulate quiet power. Digital control circuits are assigned a separate mains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

MADE IN BRITAIN

Classic PRE Preamplifier



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

MADE IN BRITAIN

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