

PRE32 AND A34.2

PREAMPLIFIER AND
STEREO POWER AMPLIFIER

P R I M A R E

THE SOUND AND VISION OF SCANDINAVIA



PERFECTION PER FUNCTION

We introduce a new classic pre-power amplifier system for the 30 series comprising the PRE32 preamplifier and the A34.2 UFPD power amplifier. Generating audiophile standards of fidelity, this Primare combination represents the essence of Primare design, blending our trademark low-noise wide bandwidth signal processing and control with effortless ease-of-use and superb minimalist aesthetics.

The new ensemble further refines the character of the EISA award-winning I32 integrated amplifier, making greater reserves of supremely clean, efficient and dynamic UFPD power available to a wide range of source components through low-noise balanced connections and excellent OLED display architecture. Finely engineered in heavy-gauge alloy steel, the slim eco-friendly and upgradable PRE32 and A34.2 will combine beautifully with the CD32 CD player under the operation of a single remote handset, to deliver audio purity, convenience and elite design integrity in the finest Primare tradition. Not only will the system look fabulous in any room, its integration within existing home control networks is assured through RS232 and trigger connections.

Audiophile Topology

The PRE32 and A34.2 are equipped with excellent complementary low-noise electrical designs.

All signal paths are fully balanced and as short as possible, while multiple power supplies feed discrete circuits individually optimised for the digital and analogue audio, control and display sections. Source selection, volume and channel balance trims from the PRE32 are performed purely in the analogue domain. Its unbalanced input signals are upgraded to low-noise balanced signals by a conversion stage comprising the finest discrete components.

As part of the low-noise regime, the PRE32's control and display components are placed between the front panel and the main steel chassis to provide the best isolation from the sensitive analogue circuits. This has long been an innovative feature of Primare design.

The A34.2 houses two discrete UFPD amplifiers. Each channel incorporates unbalanced (RCA) and balanced (XLR) inputs, as well as high quality gold plated speaker terminals.

Balanced Architecture

Balanced signal transmission means that two identical signal lines are used to carry the same signal with opposite phase. Any noise is common to both lines, is present in equal amounts and with identical phase. At the receiving end a differential receiver retains the opposite phase signals (music) and rejects the common phase ones (noise) leaving only the pure original signal. Balanced circuits therefore keep the signal as free as possible from interference. All Primare 30 series components employ balanced architecture for audiophile signal quality.



PRE32 PREAMPLIFIER

The PRE32 incorporates two pairs (L/R) of low-noise balanced XLR inputs and 4 pairs of RCA inputs. In addition there are two pairs of RCA outputs and a single pair of balanced XLR outputs for low-noise connection to the A34.2 and other balanced power amplifiers; as well as a record output, RS232, trigger, and IR inputs. Switching between inputs is easy from the C23 system handset or front panel with the aid of the pure white OLED display, dimmable in four steps (other colours via a menu configuration). The display auto-dims after a few seconds but returns to programmed brightness at the touch of a control.

Set-up also includes control over power-up volume, maximum volume level, input re-naming (up to 6 characters), input disabling and a trim function (volume and balance) for each input in steps of 1dB. A surround processor bypass feature allows signals from an AV processor to travel straight to the A34.2 or any other power amplifier. The PRE32 incorporates a very low eco mode for standby: power consumption is just 0.2W!

Upgradeable Design

A media upgrade will be available for the PRE32, which offers up to 24 bit/192 kHz streaming of files from Internet, NAS or PCs, as well as Internet radio content and also a digital audio input from a range of devices including CD players, smart phones, personal players and satellite boxes.



A34.2 TWO CHANNEL POWER AMPLIFIER

The A34.2 is a 2 x 150 watt stereo power amplifier utilising proprietary UFPD technology, designed to provide high power output with very low distortion for Primare's PRE32 audiophile preamplifier and all other preamps, as well as multi-channel audio processors. It uses two discrete UFPD amplifiers, each channel incorporating unbalanced (RCA) and balanced (XLR) inputs, as well as high quality gold plated speaker terminals, trigger and RS232 control inputs.

Ecologically the A34.2 is far superior to conventional Class A/B designs being extremely efficient without generating excessive heat. In standby it consumes only 0.3W.

The A34.2 can easily be switched to bridged mode and will then provide one fully balanced mono channel capable of delivering up to 550W into 8 ohms.

What is UFPD?

Primare's UFPD technology provides for the possibilities of a full-range 'audiophile' Class D design. It is a new and significant Class D technology which is remarkable for its performance consistency across the entire audio bandwidth. Traditional Class D amplifiers have a signature response, which is fabulous at low frequencies but can sound harsh and brittle at higher frequencies due to circuit instability produced by insufficient feedback. UFPD actively

adjusts the feedback required to deliver a higher level of gain across the entire audio band, maintaining performance irrespective of load (impedance) variations. Primare's UFPD treats all signals equally, keeping distortion very low at all frequencies. With a very wide 'load independent' frequency response UFPD is able to drive any speaker while maintaining control and accuracy.

PFC Power Supply

In conjunction with UFPD, Primare uses an isolated PFC (Power Factor Control) technology in the power supply, which controls the current from the mains voltage so that it is a pure sine wave with the same frequency and phase as the mains voltage. This means that even if 1000W is taken from the mains, other equipment in the room will not be affected.



Product specification PRE32

Analogue Inputs	2 pair XLR (L & R), 4 pair RCA (L & R)
Other In/outputs	RS232, IR in/out, trigger in/out, RF
Optional Media i/o Module	Spec to follow
Input Impedance	15k both RCA and XLR
Analogue Record Output	1 pair RCA (L & R)
Pre Output	2 pair RCA (L & R), 1 pair XLR (L & R)
Output Impedance	110 ohms
Frequency Response	20 Hz – 100 kHz -3 dB
THD + N	<0.003%, 20 Hz – 100 kHz, 0 dB gain
Signal to Noise	-115 dBV
Max in /out level	10 Vrms
Gain	16 dB
Power Consumption	Standby: 0.2 W; operate: 23 W
Dimensions (wxdxh)	430 x 385 x 105 mm
Weight	10.5 kg
Colour Options	Black Titanium

Product specification A34.2 stereo mode

Output Power	2 x 150 W / 8 ohm THD+N <0.1%
Inputs	2 x RCA / 2 x XLR switchable, RS232, trigger (12 V)
Input Impedance	15 kohm RCA and XLR
Output Impedance	0.3 ohm at 1 kHz
Gain	30 dB unbalanced, 26 dB balanced
Frequency Response	20 Hz – 20 kHz, -0.5 dB
Signal to Noise	20 Hz – 20 kHz unweighted 105 dBV
THD + N	<0.005% (1 kHz, 100 W, 8 ohm)
THD + N	<0.02% (20 Hz – 20 Khz, 10W, 8 ohm)

Product specification A34.2 bridge mode

Output Power	1 x 550 W / 8 ohm THD+N <0.1%
Inputs	1 x RCA / 1 x XLR switchable, RS232, trigger (12 V)
Input Impedance	15 kohm RCA/XLR
Output Impedance	0.6 ohm at 1 kHz
Gain	30 dB unbalanced, 26 dB balanced
Frequency Response	20 Hz – 20 kHz, -0.4 dB
Signal to Noise	20 – 20 kHz unweighted 105 dBV
THD + N	<0.004% (1 kHz, 100 W, 8 ohm)
THD + N	<0.015% 20 Hz – 20 Khz (10 W, 8 ohm)

Common (stereo+bridge mode)

Power Consumption	Standby: 0.3 W, Idle: 24 W
Dimensions (wxdxh)	430 x 385 x 105 mm
Weight	10.5 kg
Colour Options	Black Titanium



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