

# CD22 AND I22

CD PLAYER AND  
INTEGRATED AMPLIFIER

P R I M A R E

THE SOUND AND VISION OF SCANDINAVIA



## PERFECTION PER FUNCTION

We introduce the new Primare 20 Series with this classic system of I22 integrated amplifier and CD22 CD player. Complete with the blend of elite design quality, reliability and performance that defines Primare, this compact system will energise your enjoyment of CD, and with a high performance DAC option for the I22, music from a computer as well. Offering a seductive harmony of technology and functionality, its components have been developed with precision to deliver effortless audio purity and ease of use.

### Audiophile Topology

The CD22 and I22 are equipped with excellent complementary low-noise electrical designs. Optimised signal paths are populated by high quality components in order to maximise bandwidth and minimise circuit-induced noise. Multiple power supplies feed discrete circuits individually perfected for the audio, control and display sections. Both the CD22 and I22 chassis are of matching heavy gauge steel, which provides strength, rigidity and screening, while being effective at damping vibrations from external sources.

### Easy User Interface, System Integration and Upgrade

Matching displays and compatible connections provide excellent operational synergy between the Primare components and also with a larger home control system. RS232, IR and trigger connections make integration with custom installations routine, and through a wide range of inputs and outputs new system components can benefit from the quality of Primare's audio engineering. An optional DAC upgrade for the I22 adds isochronous USB-B, TOSLINK and SPDIF inputs for streaming music from PCs and Macs. Operating as the system's control interface, the I22's versatile menu allows you to set power-up volume, input re-naming (up to 6 characters) and volume/balance for each input in fine steps of 1dB. Power-up, display brightness and control are synchronised when both units are connected via IR and operated using the C23 system remote control supplied.



## CD22 CD PLAYER

As its name suggests, the CD22 is dedicated to the Compact Disc format. For the many music lovers with large CD collections accumulated over many years with great care and at great emotional and financial expense, the CD22 will ensure that the silver disc continues to provide easy access to ever greater fidelity. Even so, the CD22 will also play and control MP3 or WMA files via USB or disc, providing exceptional sound according to the data available.

### Designed for High Performance

The CD22 incorporates a dedicated CD-transport with a considerable five second buffer memory in order to provide the best jitter suppression and protection from mechanical shock. As determined by user preference, signals may be up-converted to 192kHz in order to provide the single high-performance Burr-Brown PCM1792 DAC/filter combination with as clean a signal as possible. There are no capacitors in the CD22's signal paths. SMD technology and separate PCB modules are used throughout the design in order to keep the signal paths isolated and short. All analogue and digital audio circuits are supplied from separate R-core transformer windings.

### Using the CD22

All functions are clearly visible in white VFD characters, which may be dimmed in four stages to match the I22's display when the units are connected via IR. Operation can be customised by choosing the preferred sample frequency: 44.1 kHz, 48 kHz, 96 kHz or 192kHz. Comprehensive outputs include unbalanced RCA analogue, together with SPDIF and TOSLINK digital outputs. A specially designed power supply for its micro-processor circuit provides the CD22 with a very low standby power mode of just 0.3W.



## I22 INTEGRATED AMPLIFIER

The I22 is an upgradable two x 80 watt integrated amplifier utilising twin proprietary Ultra Fast Power Device (UFPD) power modules. UFPD's performance results in a naturally fast, clean and agile sound over a much wider frequency range and with exceptional headroom. Ecologically the I22 is far superior to conventional Class A/B designs being extremely efficient without generating excessive heat. In addition it provides a special eco-friendly standby mode of just 0.3W. Clearly visible on the I22's white dimmable VFD display is a versatile menu, which allows the renaming of inputs, and the setting of operational parameters for each – volume, balance and power-up level for example.

### 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.

### Upgradable Design

An optional DAC board is available, comprising three digital inputs for the upgrading of existing CD players via their digital outputs, and the streaming of music files from PCs and Macs. There is an isochronous USB-B input (16-24bit data at 44.1 to 96kHz), a TOSLINK connector (16-24 bit data at 44.1-192kHz) and SPDIF (16-24bit/44.1-192kHz). Specialised processing at the Isochronous USB-B input re-clocks the incoming data for reduced jitter and greater bit resolution through the DAC, optimising sound quality from music files.

### Additional Features

So as not to damage little ears, the I22 can be set to a maximum volume level using the C23 system remote or the I22 controls. For seamless home theatre system integration, the I22 contributes its two independent 80W amplification channels through input four when the SSP mode is selected.



### Product specification I22

Output Power	2x 80W at 8Ω 2x 160W at 4Ω
Analogue Inputs	4 pair RCA (L & R)
Optional DAC Board	1x USB-B input 1x Digital Optical input (1 Toslink) 1x Digital Coaxial input (1 RCA jack)
Input Impedance	15kΩ
Analogue Record Output	1 pair RCA (L & R)
Pre Out	1 pair RCA (L & R)
Output Impedance	RCA 94Ω
Frequency Response	10Hz – 20kHz, -0.5dB
THD + N	< 0.05%, 20Hz – 20kHz, 10W at 8Ω
Signal to Noise	-95 dB
Power Consumption	Standby: 0.3W; Operate: 19W
Dimensions (wxdxh)	430 x 420 x 106 mm
Weight	10 kg
Colour Options	<span>Black</span> <span>Titanium</span>

### Product specification CD22

Mechanism	Asatech 8210.B01-02, Sanyo SF-P101N
D/A converter	1x PCM1792, 24/192 kHz
Analogue outputs	1 pair RCA, 2.1 Vrms
Output impedance	RCA 100Ω
Digital outputs	1x SPDif (RCA); 1x optical (TOS-link)
Frequency response	20Hz – 20 kHz -0.5dB
Signal to Noise	20Hz – 20kHz unweighted -100dB
THD + N	20Hz – 20kHz <0.01%
Other inputs	USB interface; IR input 3.5mm; RS232; Trigger in/out 3.5mm
Power consumption	Standby 0.3W; Operation 25W
Dimensions (wxdxh)	430 x 375 x 106 mm
Weight	10.5 kg
Colour options	<span>Black</span> <span>Titanium</span>



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