

# P R I M A R E

## **CD21 CD PLAYER**

Every component of the CD21, from the CD transport to the audio output stage, has been designed to achieve the highest possible audio performance.

### **Careful design for mechanical stability**

The Primare CD21 Compact Disc Player uses an advanced DVS mechanism.

As with all Primare units, the CD21 Compact Disc Player is housed in an alloy heavy gauge steel chassis, which provides strength, rigidity, and screening, while being effective at damping vibrations from external sources.

### **Display and audio circuits are isolated**

The front panel design isolates the display circuitry from the audio circuitry to avoid interference

### **The purest digital stream**

From the CD-transport we extract the SPDIF signal, which is fed to a DIR1703 digital receiver. DIR 1703 has excellent jitter suppression abilities ensuring that the DACs receive as clean a digital signal as possible – giving the most natural sound. We have chosen not to incorporate any other signal treatment such as up-sampling, which can colour the sound.

### **Balanced internal design**

Digital to analogue conversion is performed by two excellent Burr-Brown 24bit/192kHz PCM1738 DACs, configured in an internally balanced topology to perform a THD cancellation process. Each DAC chip is dedicated to either the left or right channel and contains two DACs, which carry the same signal with opposite phase. On the receiver side the signals are mixed, and since any interference that has arisen during the transmission will be present in both lines with identical phase, such noise and distortion products are cancelled out leaving only the pure original signal.

The current to voltage conversion is a half discrete circuit, which incorporates Philips NE5532 operational amplifiers, Burr-Brown's OPA2134 and discrete MosFet transistors. The signal path is balanced until its last stage. The final output stage is single ended with a single Mosfet transistor driven by an active current source instead of the use of passive resistors.

### **Shortest signal paths**

SMD technology is used whenever possibly to keep the signal path as short as possible.

### **Clean power supply for the best possible performance**

Each part of an electronic design has specific power requirements. Primare's forensic approach to ensuring that clean power is supplied throughout the design is a key part of its design philosophy and has significant sonic benefits.

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An internal mains filter ensures that any high frequency disturbance is removed before it reaches the power transformer, which is placed as far away as possible from the delicate analogue circuits. The player incorporates a fantastic R-core transformer with separate windings for all of the player's different power requirements (mechanical, analogue, digital, etc) – eight in all! Each is individually regulated in ten steps to ensure that enough power is constantly available. For the critical analogue audio stage, the player incorporates ultra-fast discrete power regulation, ensuring that enough regulated power is available for even the deepest sonic transient that can be recorded on a compact disc.

This power supply configuration gives the player the usually extremely high signal to noise ratio allowing you to take full advantage of the dynamic range possible with CD.

**Power in standby mode:** analogue audio sections are supplied with mains power in standby-mode. This means that no run-in time is necessary for the player when activated from standby mode. Its performance will be the same as if it were left in operating mode continuously.

## **Inputs/Outputs**

### **Analogue output**

The analogue output is unbalanced RCA for connection with an appropriate stereo amplifier.

### **Digital output**

The CD21 Compact Disc Player provides one RCA co-axial 75 ohm S/PDIF, one optical TOSlink and one professional XLR 110 ohm AES/EBU digital output for connection to a digital preamplifier or digital surround processor.

## **Inputs**

### **DATA**

The DATA input is intended for use with future products.

### **RS232**

The RS232 port will allow you to connect to a home automation installation system. It will also allow you authorised personnel to connect to the CD21 for service and future upgrades.

### **IR**

For independent IR control by home automation systems, the CD21 can be controlled by using the IR-input on the back panel.

## **Intuitive user interface**

In keeping with the philosophy of the Primare range of systems, the CD21 can be controlled through a very simple and intuitive interface, designed so that it will not distract you from the pleasure of listening to music on your system.

In fact most of the features of the CD21 can be accessed through just six front panel push buttons. The full set of functions, including scan and programming, is available using the remote control supplied with the CD21. Alternatively, all the functions of the CD21 can be controlled by the C22 remote control, along with the other Primare components in your system.

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The main functions of the CD21 Compact disc player can be accessed using the 6 front panel push buttons.

Although the CD21 Compact Disc Player is flexible enough to work with virtually any other equipment you have in your system, it is ideally suited for use with the Primare I21 Integrated Amplifier. A particular benefit of using the CD21 with a Primare preamplifier is that you can control your entire system with a single remote control, to give you a fully integrated system with the simplest possible user interface.

### **Specifications**

**Mechanism DVS "Ultra Silent"**

**D/A Converter 2 x Burr-Brown PCM 1738**

**Output Analogue 2.0 VRMS**

**Output Impedance 100Ω**

**Frequency Response 20Hz – 20kHz (+0/0.2dB)**

**Signal to Noise Ratio 105dBA**

**Harmonic Distortion <0.01% (20Hz – 20kHz)**

**Digital Output 75Ω coaxial (SPDIF)**

**110Ω AES/EBU**

**TOSlink**

**Power Consumption Standby <16W**

**Dimensions 430 x 385 x 100mm**

**Weight 10kg**

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