Pro-Ject
AUDIO SYSTEMS

Hi·Res AUDIO

32 bit | 768 kHz

DSD
Direct Stream Digital

MQA

roon tested

EISA AWARD **Best Product** 2019-2020
DIGITAL SOURCE
Pro-Ject CD Box RS2 T/Pre Box RS2 Digital

Pre Box RS2 Digital

High·end preamplifier, DAC, Headphone amp

MSRP 2199 € (incl. VAT)

Colour options: ⚫ ⚪

• Dual Mono DACs: 2x ESS9038Q2M

• High Quality optionally selectable upsampling of PCM and/or MQA content with propriatory filtering

• Advanced re-clocking powered by new XMOS chip with Mulit-Core RISC architecture

• 9 digital inputs: i²S HDMI, AES/EBU, Toslink, S/PDIF coax, BT v4.0

• Analogue: Pre-out XLR/RCA/headphone, RCA input

• Fully balanced double mono design

• Output stage switchable between 6922 tube & solid state

• Ultra-linear and ultra low noise

• New high-quality display with responsive and fast UI design

• High quality full Aluminium remote control included

• Available in black and silver

DAC: 2x ESS9038Q2M (dual mono - 32bit/768kHz/DSD512) with 8 different digital filter settings

Digital inputs: 1 x USB 2.0 Audio 32/768 + DoP and Native-DSD up to DSD512
1 x HDMI I2S for CD Box RS2 T
2 x S/PDIF optical 24/192, 1 x S/PDIF coaxial 24/192
1x AES/EBU balanced 24/192

MQA Support: full MQA unfolding by hardware

Line-level input: 1 pair XLR/ 1 pair RCA

Input impedance: 15 kOhm

Output impedance: 180 Ohm solid state, 220 Ohm tube

Analog outputs: Pre-out (XLR & RCA), Headphone (6,35mm jack)

Headphone output power: 90 mW / 300 Ohm; 245 mW / 33 Ohm; 150 mW / 8 Ohm

THD+N (20Hz - 20kHz): < 0.006% solid state/0.017% tube @ 2V RMS, 1 kHz

Master clock output: 16,9344MHz for CD Box RS2 T

BT Version: Fully embedded BT® v4.0

BT Codecs: SBC, AAC, AptX

Output Buffer: discrete and balanced, tube and solid state

Tubes: 4 x 6922EH

Power supply: 20V/3A DC, 110-240V/50, 60 Hz

Power consumption: max. 1,2A DC, <0,5W in standby

Dimensions W x H x D (with sockets): 206 x 72 x 222 mm

Weight: 1710 g without power supply

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The most universal & future-proof high end pre-amplifier, DAC, headphone amp!

The Pre Box RS2 Digital is the bigger brother of our award winning and ground breaking Pre Box S2 Digital. It uses the same excellent sounding DAC chips as the S2 version, proving once again that the Pre Box S2 Digital was already at the very top of high-end DACs and absolutely beyond its competition. Based on the same core-design principles, the feature set is extended and driven to new heights. The result is a fantastic sounding and very versitile box. The perfect partner for the cream of the crop of high-end amplifiers and speakers alike!

The Pre Box RS2 Digital is a DAC and preamplifier that uses a dual-mono configuration of the highest-class D/A converters from ESS Sabre. ESS9038Q2M chips provide the highest sound quality in price-affordable, high-end circuits. Unlike most of DAC´s in this price range, the Pre Box RS2 Digital includes dual DACs and separate signal paths for the left and right channels.

Also thanks to these converters, the Pro Box RS2 Digital supports up to 32-bit / 768 kHz files in PCM and DSD formats (up to DSD512) via USB, covering any digital file you can buy or stream.

The analog output is a buffer that is both solid state and high-quality tube. Thus, the customer can choose which of the option is preferred.

The Pre Box has eight digital filters. One of them is the proprietary optimal transient digital filter from the MQA creators. With these filters, the listener can customize the sound to suit their own preferences.

Pre Box RS2 Digital comes with full HW and SW support for MQA technology (Master Quality Authenticated).

In the Pre Box, the USB input signal is processed by a powerful multi-core XMOS microcontroller with advanced Multi-Core RISC architecture.

The CPLD MAX II (Complex Programmable Logic Device) Altera is used for re-clocking, which together with the XMOS microcontroller brings high-quality processing of both classical and MQA technology. For the ideal use of this technology, it is best to connect the Pre Box to our Stream Box S2 Ultra in conjunction with the TIDAL service. You can also enjoy MQA quality by linking it with our new revolutionary CD transport, the CD Box RS2 T.

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The CD Box RS2 T can be connected to the Pre Box by reliable I²S differential bus via the HDMI connector where the Pre Box RS2 Digital also provides the master clock (16.9344 MHz).

The headphone amplifier has been significantly improved compared to the old version and is now the ultimate Pro-Ject design. No compromise. No coupling capacitors. Not even on the output. All of the the amplifier is DC coupled. A very fast DC servo assures no DC voltage on the output. Its output power is suitable for all kind of headphones.

A premium full aluminium remote control is included in the packaging and the Pre Box RS2 Digital is available in a high-quality silver or black aluminium case. The big display screen on the front shows all relevant information in an easy to read, clean and structured way. Navigating the menu is very responsive and fast, allowing you to set up the unit to your preferences in seconds!

Solid state output stage

Integrated high-end Headphone stage

Power supply for digital parts

Dual ESS Sabre 9038 DACs with optional re-clocking and upsampling

Analog filter section

Motor driven potentiometer

Altera CPLD MAX II for re-clocking and MQA processing

XMOS processor with advanced Multi-Core RISC architecture

Power supply for analog parts

AK4115VQ S/PDIF Digital input chip

Fully embedded Bluetooth® v4.0 SBC, AAC, AptX

Tube output stage

● upper PCB level
● lower PCB level

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