

norma  
AUDIO ELECTRONICS



NORMA REVO DS-1, CDP-1BR, DAC-1



For many years NORMA has been studying ways to offer the highest possible quality all across the high-end audio product range, including digital sources. It is a common misconception, in fact, that the sound of digital sources is often (though not always) of lower quality and inferior to the one best analogue sources. This belief was originated on the basis that the CD standard (16-bit 44.100 kHz) is not accurate enough to properly store all the information of a sound recording. But this is not completely true, as the real reason for this “bad” sound derives substantially from the practical implementation of CD Players. This is why Norma originally decided to design a reference CD Player: to have a reliable source to test its amplifications, and to offer its clients a no-compromise mean to enjoy the rest of their Norma systems. Everything is designed to extract, respect and accurately reproduce the information that already exists on the CD. The CD Player has since been updated to keep up with high resolution music files, and was therefore added a full digital input board, originating the REVO DS-1.

Listening to a NORMA REVO DS-1 will surprise you with your best-known CDs: the typical harshness of digital sound is missing, while much more information and a lot more dynamics are present. All this without any kind of listening fatigue, but rather with a sense of neutrality and a surprising lack of artificiality. Even more spectacular is the reproduction of the soundstage. The NORMA REVO DS-1 does not rebuild an artificial sound image, but really makes the listener feel the original ambience of the place where the CD was recorded. The REVO DS-1 finally lifts a heavy curtain over music. Now it's like being seated in the front row and having the whole expressive palette available, in your private listening room. Thanks to the versatility and modularity of Norma products, the REVO line sources are available in three different versions. The REVO DS-1 offers the largest possibilities, combining Digital Sources with CD Mechanism. The REVO CDP-1BR is only fitted with CD Mechanism (No Digital Connections). The REVO DAC-1 is only fitted with Digital Connections (No CD Mechanism).



Norma is based in Cremona, Italy.

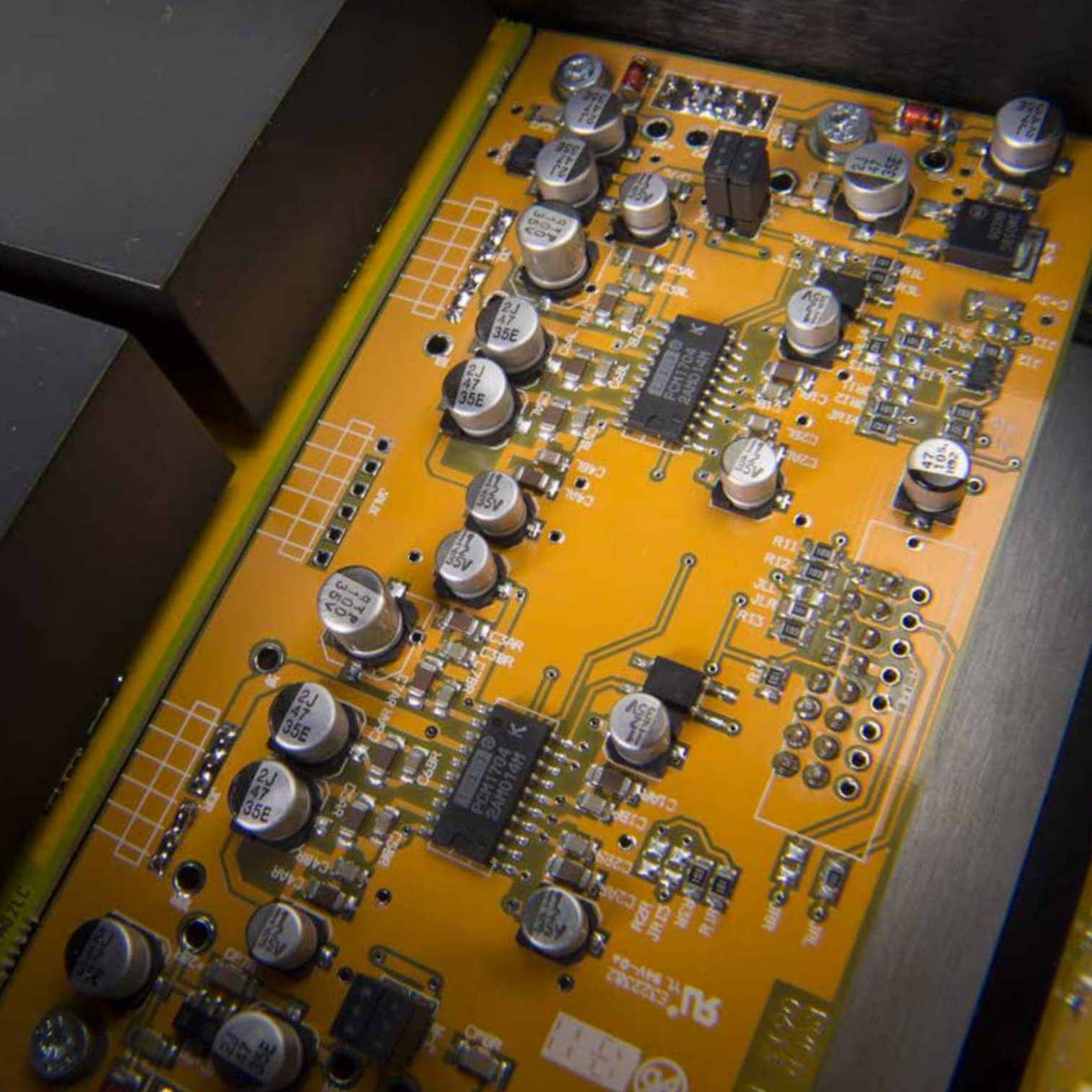
The city and its surroundings are well known all over the world for being home to great composers as Monteverdi and Ponchielli, and to famous violin makers such as Stradivari, Amati, Guarneri and many others. As of today, more than 100 violin makers' shops are found in the ancient roads of the city. In this inspiring context, where music permeates everything, for more than 20 years Norma has been involved in the study and implementation of sophisticated audio amplifiers, where technical skills and musical sensitivity must be merged together, in the same way the best musical instruments are made.

The result of this endeavor is a unique sound, which represents a synthesis of parameters usually set one against each other: dynamics, speed, and absolute transparency are combined with extraordinary musicality and total lack of listening fatigue.

The struggle between solid state and valves is finally overcome, as is the concept of reproduction.

Norma brings the listener to an intimate relation with the original event.





### Technical Features:

- Two PCM 24 Bit Digital to Analogue converters.
- Digital filter (up to 8x oversampling) with user selectable filter roll-off (Sharp or Slow).
- Proprietary I-V conversion architecture.
- Analog output stage fully based on discrete components.
- Extreme low noise, high speed, wide band circuit topology (>2 MHz).
- RCA (Unbalanced) and XLR (Balanced) output connections.
- Separate power supply for Digital and Analog sections.
- High filtering capacity with numerous low impedance capacitors.
- 15 Power supply regulators.
- Full aluminium non-magnetic frame.
- Toroidal power transformer especially designed for audio applications. Low dispersion flow, low mechanical noise, high permeability magnetic core with consequent low output impedance.
- All functions controllable by included remote control.

### REVO DS-1 and REVO DAC-1 Only

- 5 digital inputs, USB, 2 x SPDIF RCA, SPDIF OPTICAL, AES-EBU. USB input and SPDIF full bandwidth, up to 24 Bit / 192 KHz.
- Possibility to select the oversampling frequency between 44.1 KHz, 48.0 KHz, 88.2 KHz, 96.0 KHz, 176.4 KHz, 192.0 KHz or AUTO.
- Possibility to customize all parameters for each digital input, including oversampling value, clock source, digital filter, phase.
- Possibility to choose as the master D/A clock source the local oscillator or the clock from the input signal.
- Two separate local clock oscillators 22 MHz / 24 MHz (to better work with 44.1 KHz / 48KHz and multiple frequencies).
- High Stability local oscillators, with low Jitter and low phase noise.

### REVO DS-1 and REVO CDP-1BR Only

- High Quality TEAC CD Mechanism, especially designed for Audio CD.

### Optional Features:

- Optional Remote, machined from a full block of aluminium, controls all Norma products.

"Upon request, the REVO DS-1 is also available in black anodized finish"

"REVO DAC-1 available only on request"

"Red display available only on request"



### Technical Specifications:

Some specifications not applicable to all versions – DS-1, CDP-1BR, DAC-1

- Input Connections (Only with optional Digital Source board):
  - IN1 : USB, 2.0 High Speed
  - IN2 : SPDIF RCA, 750ohms
  - IN3 : AES/EBU XLR, 1100ohms
  - IN4 : TOSLINK OPTICAL, 96 KHz, (192.0 KHz may be achieved, but not guaranteed)
  - IN5 : SPDIF RCA, 750ohms (IN5 can be set as SPDIF Output by CD Mechanism).
- Digital Specifications:
  - Sampling Frequencies: 44.1 KHz, 88.2 KHz, 176.4 KHz, 48.0 KHz, 96.0 KHz, 192.0 KHz
  - Upsampler Frequencies: 44.1 KHz, 88.2 KHz, 176.4 KHz, 48.0 KHz, 96.0 KHz, 192.0 KHz, AUTO MODE Based on TI SRC4392
- Clock performances: +/- 2ppm typ. at 25°, +/- 10ppm at 60°.
- Digital Filter: Slow & Sharp mode, based on TI DF1706.
- De-emphasis: 44.1 KHz, 48.0 KHz, auto e manual mode.
- Oversampling: DF 1706 8x Digital Filter.
- Oversampling: Filter.
- User selectable: Sharp or Slow filter roll-off.
- Output Connections: RCA (Unbalanced), XLR Balanced.
- Output Voltage : 3.0 V RMS (+10 dBV) RCA (at 0 dB), 6.0 V RMS (+16 dBV) XLR(at 0 dB).
- Output Impedance : 200 ohm.
- Analogue Output Filter: 0,0 to 180 kHz +/- 3 dB.
- Analogue Stage Frequency Response: 0,0 to 2 MHz +/- 3 dB.
- Configuration: Solid state.
- D/A Converters : Burr-Brown PCM 1704 True-Multibit 24 Bit.
- I/V Conversion: I/V Conversion by proprietary topology with discrete component.
- Output Stage: Proprietary topology with discrete components, high linearity & low noise.
- Supply : 230 V AC / 50 Hz, (100V AC or 115 VAC / 50-60Hz in some country).
- Dimensions (HxWxD) : 90 x 430 x 350 mm.
- Weight: 10 Kg.
- Note: Specification subject to change without notice.







Front view – All Versions ( Red display )

Thanks to the versatility and modularity of Norma products, the REVO line sources are available in three different versions. The REVO DS-1 offers the largest possibilities, combining Digital Sources with CD Mechanism. The REVO CDP-1BR is only fitted with CD Mechanism (No Digital Connections). The REVO DAC-1 is only fitted with Digital Connections (No CD Mechanism).



Rear view – REVO DS-1 and REVO DAC-1



Rear view – REVO CDP-1BR



Top view – REVO DS-1



Top view – REVO CDP-1BR



**The Digital Interface board includes Full-Band digital inputs, allowing High Quality connections to all sorts of digital equipment. The USB input works flawlessly with all modern Operative Systems. In particular, it is able to work in Direct Mode and Integer Mode, allowing for a higher purity of signal transmission.**

*"The REVO CDP-1BR is without doubt a high level electronic, very well conceived, with a great sense of musicality and elegance. The particularly refined construction proves great originality; its remarkable qualities will surely be recognized also by its competitors. But the most important feature of this player is the sound results it is able to obtain, inspired by great neutrality and REAL truthfulness in all circumstances. A set of important features to seduce the Music Lover by a transalpine company that must be now taken is serious account."*

**Dominique Mafrand, Haute Fidélité**





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HYBRID CD PLAYER

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