

## Product Announcement

### HiFi Rose RD160

#### Absolute true fidelity DAC

*Didcot, Oxfordshire – 3<sup>rd</sup> October 2024*

Henley Audio are delighted to announce the imminent UK availability of the HiFi Rose RD160 DAC and pre-amplifier. Spearheading a new product category for the Korean company, the RD160 uses a sophisticated electrical design to deliver a true, high-end digital-analogue conversion.



With the RD160, listeners can enjoy a pure sound reproduction that is free of noise and totally engaging. Featuring new HiFi Rose technologies, including ROSE DPC™, ROSE NRA™, and ROSE CIM™, the RD160 still strikes the balance that HiFi Rose fans have come to expect of the company. The new DAC is a joy to experience thanks to its sound, innovation, usability, and aesthetic appeal.

Key features include:

- ✓ ROSE DPC™ (Digital Processing Core) Module guarantees signal accuracy and precision regardless of the source thanks to using an OCXO clock.
- ✓ ROSE CIM™ (Completely Isolated Module) Architecture uses a two-chip solution for unrivalled noise reduction.
- ✓ Fully balanced, dual-mono DAC design with complete mechanical separation between channels.
- ✓ ROSE NRA™ (Noise Reduction Analogue) Filter achieves a flat frequency response, even in the very low-frequency range, for a true-to-the-original sound performance.
- ✓ Three customised reference-level linear power supplies drive the two channels and the main digital processing board independently for reduced interference and crosstalk.
- ✓ Premium components and cables used inside.
- ✓ Solid aluminium chassis with intuitive user interface and IR remote control included.

**HiFi Rose RD160: £4,699.00 (SRP)**

**RD160 will be available in black or silver finish during November 2024.**

## HiFi Rose RD160 *in detail*

The RD160 takes every detail of your digital sound to a new level. HiFi Rose's precise and innovative technologies combine within the RD160 to deliver a DAC that looks, sounds, and functions like nothing else available today.

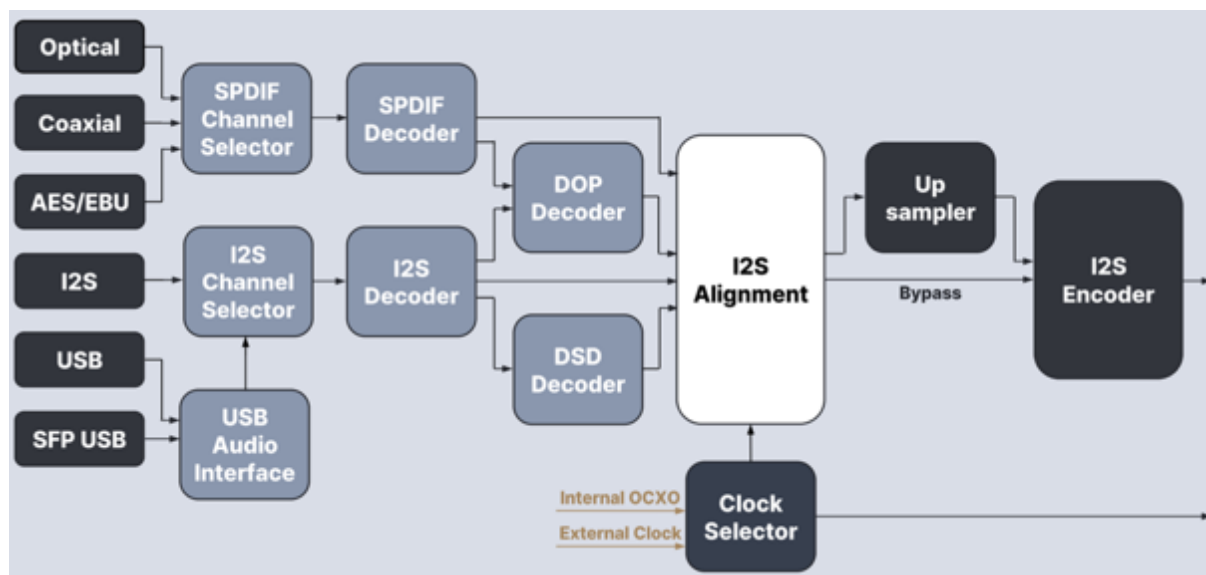
### Sound Design

The overall design of the RD160 matches that of HiFi Rose's full-width streaming products, perfectly masking the cutting-edge technology behind an aesthetically pleasing chassis. The sophisticated metallic case is luxurious and durable, while the "hidden screen" front panel relays all key playback information. Control is simple through the front-panel buttons and knob or the supplied remote control, all of which give the feeling you're handling an elegant, high-end, futuristic device.



### ROSE DPC™

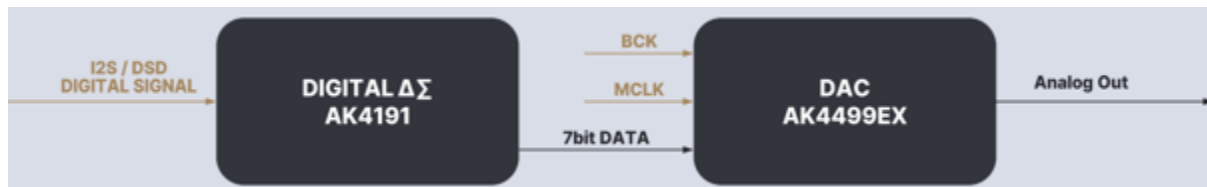
The RD160's digital stage features the new ROSE DPC™ (Digital Processing Core) module, designed to ensure that all processing blocks maintain the highest level of signal accuracy. This module precisely synchronises any digital signal the DAC receives with the high-precision OCXO clock as an I2S signal. It applies clock synchronisation and locking processes to minimise jitter, allowing for accurate processing and a natural, clear sound performance. This module also isolates the digital audio stages from the circuits used to control the RD160's user interface to avoid interferences.



Signal path within the ROSE DPC™ module.

## ROSE CIM™

HiFi Rose's ROSE CIM™ architecture consists of a module that completely separates a DAC's digital and analogue processes. To maximise sound quality through complete isolation and modularity, the RD160 uses two DAC chips per channel, with the Asahi Kasei AK4191 handling digital filtering and initial delta-sigma modulation stages, followed by the AK4499EX, which performs the final digital-to-analogue conversion. This design means that the RD160 avoids the noise regular DAC chips generate due to their mutual processing of multiple stages within one chip. At the same time, the dual-mono layout further allows for minimal crosstalk. The result is an extremely high signal-to-noise ratio, allowing the RD160 to sound totally pure and natural.



*ROSE CIM™ signal path within one channel of the RD160.*

## Customisable Experience

The RD160 features a variety of options and settings, all controllable through the front screen. Four sampling options (Bypass, PCM, DSD, and Upsampling) and six digital filters allow you to achieve the sound that suits your ears best. When sat back in your listening position, multiple screen display options, including a live soundwave of each channel, are available.



As well as the usual suite of connection options, the RD160 also features an SFP USB input, which supports optical USB conversion. When combined with the RS130 streaming transport, which boasts an SFP USB output, you can transmit pure digital data in the cleanest and most noise-free manner. For further compatibility with a wider high-end system, the RD160 also offers 50Ω and 75Ω external clock inputs.

The RD160 features an output level setting option, allowing you to select from fixed output levels between 1 and 9V. This allows you to connect to a wide range of amplifiers and avoid low output or too much gain and clipping. When this feature is turned off, the front-panel volume dial takes over,

allowing for systems where the RD160 can also function as a pre-amplifier for direct connection to a power amplifier.

### **Quality Throughout**

The RD160 features quality component choices and materials throughout. From the purpose-chosen J-FET input dual op-amps to the superior OCXO clock and even to the specially prepared OFC and OCC cabling, every element of the design has been considered with high-performance audio in mind.

The RD160's analogue stage uses HiFi Rose's new ROSE NRA™ (Noise Reduction Analogue) filter, which achieves a flat frequency response even when entering the very low-frequency bands. This gives the RD160 a wide, fixed frequency response without roll-off, so it can clearly and faithfully convey the original sound information contained within a recording.

The RD160 also features three custom-designed reference-level linear power supplies. Based on an ultra-low noise power chipset, the power supply is designed to independently supply power to the main digital section and the left and right channels. By stably supplying power according to the dynamic requirements of each stage, the power supply maintains high signal integrity, therefore increasing the resolution and dynamic range of the DAC.



### **Absolute True Fidelity**

The RD160 is an effective combination of class-leading engineering, innovative technologies and a user experience that puts music lovers first. Whether tried as a stand-alone addition to an existing system or set up in partnership with the flagship HiFi Rose RS130 streaming transport and RA180 integrated amplifier, it guarantees an experience like nothing else available today.

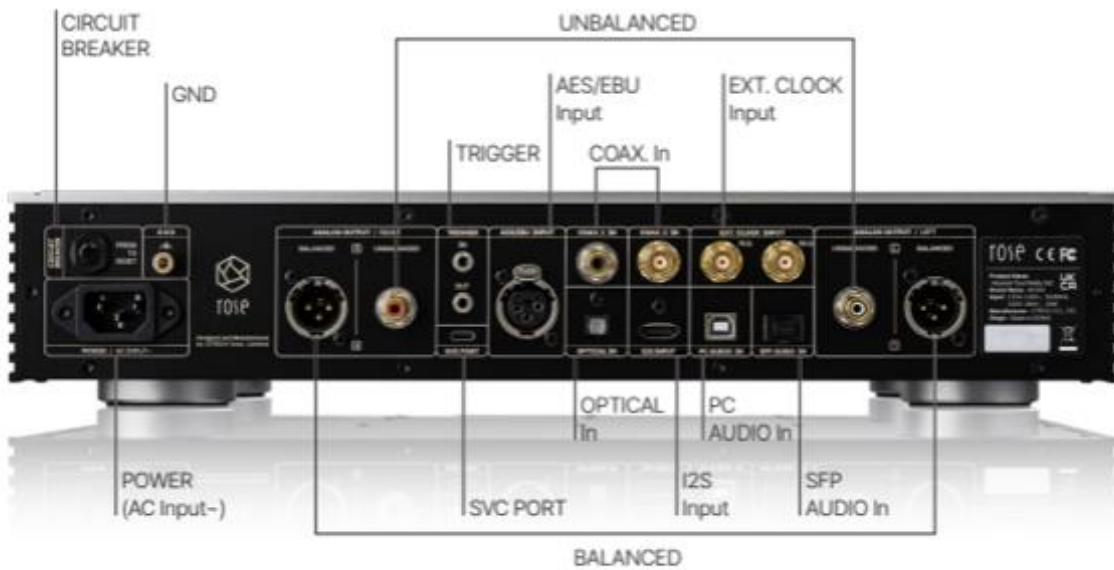
## Technical Information

Input Sensitivity:	0dB / 1kHz
Output Impedance:	300Ω
Max. Output Level:	4.5Vrms (RCA), 9Vrms (XLR)
THD +N:	0.005% (RCA), 0.005% (XLR)
Signal to Noise Ratio:	124dB (RCA), 124dB (XLR)
Frequency Response:	10Hz – 20kHz (-0.3dB) 10Hz – 50kHz (-1.5dB) 10Hz – 73kHz (-3.0dB)
DAC Chips:	2 x AK4499EXEQ + 2 x AK4191EQ
PSU:	3 x Linear Toroidal
CPU:	RK3128 Quad-Core Cortex A7mp
RAM:	DDR3 1866MHz 1GB
Flash:	8GB eMMc
Oscillator:	High-Precision OCXO
Display:	AMOLED (hidden screen)
Inputs:	USB SFP Module (PCM 32-bit/768kHz, DSD512) USB 2.0 Type B (PCM 32-bit/768kHz, DSD512) HDMI I2S (PCM 32-bit/768kHz, DSD512) Coaxial RCA (PCM 32-bit/768kHz, DSD128 DoP) Coaxial BNC (PCM 32-bit/768kHz, DSD128 DoP) Optical (PCM 32-bit/768kHz, DSD64 DoP) AES/EBU (PCM 32-bit/768kHz, DSD128 DoP)
External Clock Input:	BNC 75Ω (10MHz) BNC 50Ω (10MHz)
Analogue Outputs:	Unbalanced RCA Balanced XLR
PCM Filters:	Sharp, Slow, Short Sharp (Default), Short Slow, Super Slow, Low Short
Pre-Out Level:	1V – 9V (fixed or variable switchable)
Power Consumption:	0.3W Standby / 30W Max.
Size (W x D x H):	430 x 330 x 88mm
Weight:	10.0kg
Body:	Solid Aluminium / Rust-Proof Steel
Remote Control IR Input:	38kHz Infrared Ray (Within 10m)

• Front



• Rear



## Notes for Editors

### Consumer Contact for Publication

Henley Audio  
Didcot, Oxfordshire

Tel: 01235 511 166  
Email: [sales@henleyaudio.co.uk](mailto:sales@henleyaudio.co.uk)  
Web: [www.henleyaudio.co.uk](http://www.henleyaudio.co.uk)



### About HiFi Rose

HiFi Rose aims to take you “beyond audio.” It makes products that not only sound exceptional but are also a joy to experience in both aesthetics and operation. The flagship RS130 sets the standard for this aim and delivers on all fronts one of the most innovative streaming devices the hi-fi industry has seen in recent years. The range was expanded in 2022 with the addition of the RA180 integrated amplifier, delivering astonishing specifications and innovative technologies in a more traditional market sector.

HiFi Rose is a division of Citech, a Korean software company that was founded during the 1960s. HiFi Rose assembles all its products in Korea.



### About Henley Audio

Henley Audio has been importing and distributing industry-leading hi-fi equipment to the UK and Ireland since 1997. With a passion for great sound and a firm focus on brand integrity, we work to deliver excellence in both product and service.

Formed as the result of a management buy-out of Ortofon UK, Henley Designs Ltd. (trading as Henley Audio) operates in-house sales, marketing, service, support, and warehouse teams to offer the full turn-key solution for suppliers. The brands we represent are not only highly regarded in their own right, but they also share a symbiotic relationship with other brands in our portfolio.

For more information, visit [www.henleyaudio.co.uk](http://www.henleyaudio.co.uk)

### Press Contact

*Simon Powell*

Henley Audio, Unit B, Park 34, Collett, Didcot, Oxfordshire, OX11 7WB

Tel: 01235 511 166

Email: [simon@henleyaudio.co.uk](mailto:simon@henleyaudio.co.uk)

Web: [www.henleyaudio.co.uk](http://www.henleyaudio.co.uk)