

# A Two 22D

## Absolute Discrete Preamplifier

*At the core of every transcendent audio experience lies the beating heart of the system, where passion takes form. The Absolute Pre-Amp becomes the centrepiece of your setup, infusing every note with vitality and every silence with meaning.*



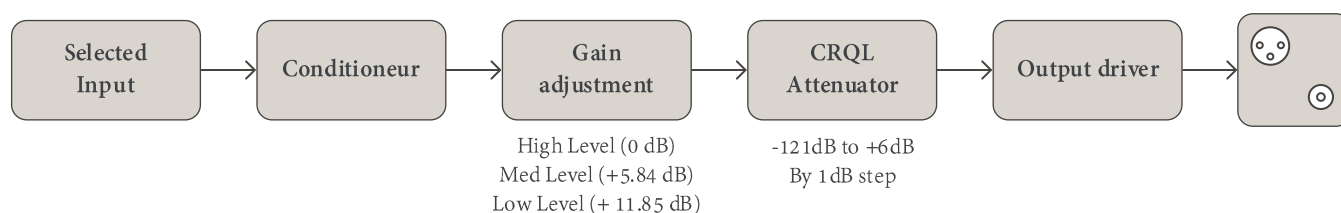
*With unparalleled artistry, it brings out the finest details of your music, capturing every subtlety with unmatched clarity. A unifying harmony that binds the elements, transforming sound into an emotional journey, delivering breathtaking dynamics and an expansive soundstage.*



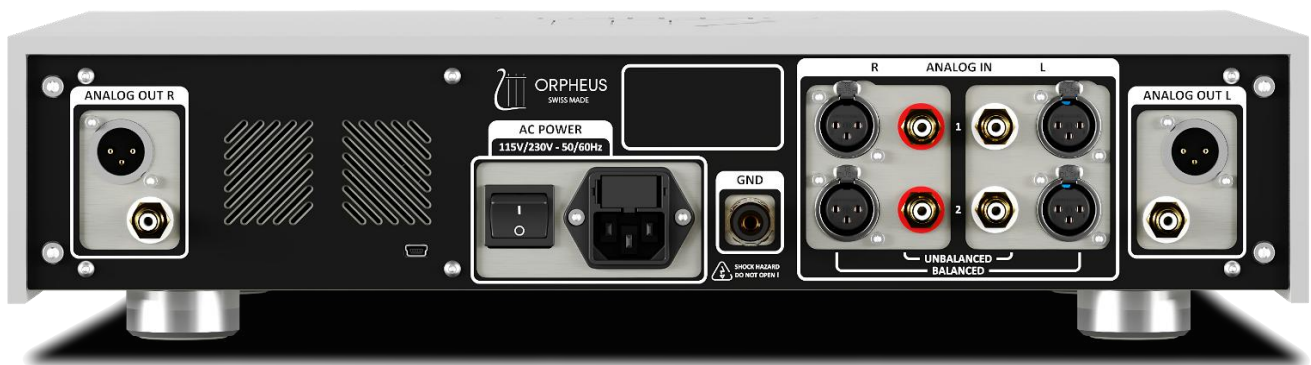
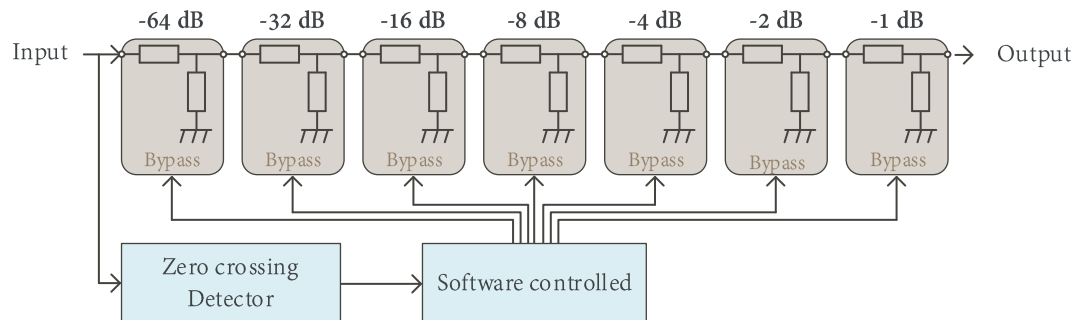
*Building upon the CRQL technology developed for our prestigious Heritage line, the A Two 22D discrete component preamplifier achieves a perfect harmony between technological prowess and musicality. Its purely resistive attenuator, configured in an unbalanced design, goes beyond mere faithful reproduction of recordings; it is dedicated to capturing the soul of the music, rendering it more vivid than ever.*

**The internal architecture consists of 5 levels**

1. Source selection
2. Conditioner stage
3. Each input features a selectable gain stage (High, Medium, or Low), offering the flexibility to perfectly adapt to the vast array of sources available on the market.
4. Volume adjustment between -121 dB and +6 dB by 1 dB steps
5. Class A current-buffered output stage



At the heart of the system is an attenuator based on CRQL technology, enabling precise adjustment to the desired output levels. CRQL stands for "Constant Resistive Quadrupoles with a Logarithmic distribution architecture". This internal circuit has the advantage of being inherently logarithmic, thus avoiding approximations like the more commonly used linear R-2R system in this type of application. The CRQL attenuator module uses quadrupoles composed solely of high-quality metal-film resistors with a tolerance of 0.1 %. It allows volume adjustment between -121 dB and +6 dB in 1 dB steps. To guarantee maximum signal integrity, our CRQL module contains no semiconductor components in series with the signal. Additionally, volume changes occur within a maximum of 150 ns after an audio signal zero-crossing.



<b>INPUT</b>	
Connections	2x XLR and 2x RCA
Balanced input Impedance	94 k $\Omega$
Unbalanced input Impedance	47 k $\Omega$
Maximum Input Level (input Bal)	7.2 Vrms
Maximum Input Level (input Unbal)	3.6 Vrms
Grounding	Grounded : Signal ground connected to earth
Two possible modes selectable by a switch on the rear panel)	Lifted : Separated ground and earth signal
<b>OUTPUT</b>	
Connections	XLR or RCA
Maximum Output Level (input Bal)	6.2 Vrms
Maximum Output Level (input Unbal)	3.1 Vrms
Frequency range (+0 dB, -0.1 dB)	5 Hz to 24 kHz
Frequency range (-3 dB)	0.7 Hz to 330 kHz
THD+N	< 0.0014 % (-97 dB) @ 1 kHz
Gain balanced max	18 dB
Gain unbalanced max	24 dB
Clip to Noise Ratio	-105 dB
Gain unbalanced	32 dB
Gain Balanced	26 dB
Output impedance Balanced	200 Ohm
Output impedance Unbalanced	100 Ohm
<b>TECHNILOGY USED</b>	
Three Pre-configured input gain 0 dB, +5.85 dB or +11.88 dB corresponding to the High, mid or low input level	
Adjustment ranges from -120 dB to +6 dB in steps of 1 dB	
Real dual mono topology	
Purely resistive passive component attenuator without any feedback loops or semiconductor components	
Class A type output current buffer	
<b>POWER</b>	
Nominal line voltage	100 Vac, 115 Vac or 230 Vac
Input voltage range	$\pm 15$ %
Maximum power consumption	50 W
<b>SIZE &amp; WEIGHT</b>	
Height	100 mm
Depth	420 mm
Width	440 mm
Weight	14.2 kg
<b>SAFETY FEATURES</b>	
Automatic switching to MUTING if the AC line drops or is interrupted.	