



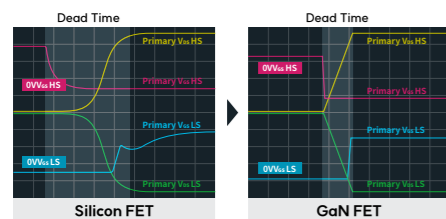
Top-notch Master Integrated Amplifier **RA280**

# Beyond Audio, HiFi ROSE



# Top-notch Master Integrated Amplifier RA280

The RA280 is an integrated amplifier that inherits the innovative technologies used in RA180. Enjoy pure natural sound as close to the original sound as you can get with the RA280: a near-perfect sound that transcends the boundaries between digital and analog technologies with excellent linearity achieved through strong power damping and short dead time. The RA280 offers a special listening experience that lets you feel the true essence of music.



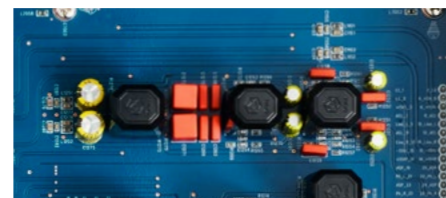
## Class AD Amplifier with Next-Generation GaN FET

HiFi ROSE's RA280 is equipped with Class AD amplifier technology using GaN(gallium nitride) FET, providing sound quality that exceeds the limitations of regular class D amplifiers. This innovative technology offers the efficiency and power characteristics of class D amplifiers, but reduces power consumption and delivers detailed sound quality through high-power amplification. Additionally, linear output is achieved using the GaN FET, providing the same smooth and natural sound quality as an analog amplifier.



## High-Efficiency Power Supply

The RA280 is equipped with a power supply circuit independently developed by HiFi ROSE that uses silicon carbide FET instead of silicon FET, providing both efficiency and stability. Since the silicon Carbide FET features higher power efficiency and lower heat generation compared to conventional silicon FETs, the RA280 is able to maintain stable high output while minimizing heat generation to deliver the best sound quality. By adopting a 2.5kW PFC circuit and a supercapacitor, it provides excellent performance even under load, ensuring stability and reliability.



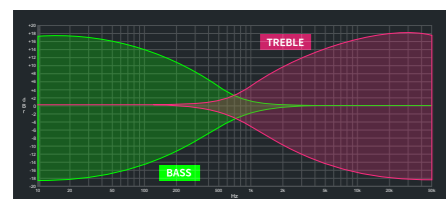
## Phono Amplifier that Supports Moving Magnet

RA280's phono amp supports moving magnet cartridge input with a simple switch selection. This amplifies very weak audio signals without coloration, providing the best sound quality. Utilizing HiFi ROSE's high-precision compensation circuit, it delivers audio signals close to the original sound and perfectly implements essential functions for high-quality music playback. Users can activate this feature by simply selecting a switch, allowing them to enjoy richer, more vivid sound.



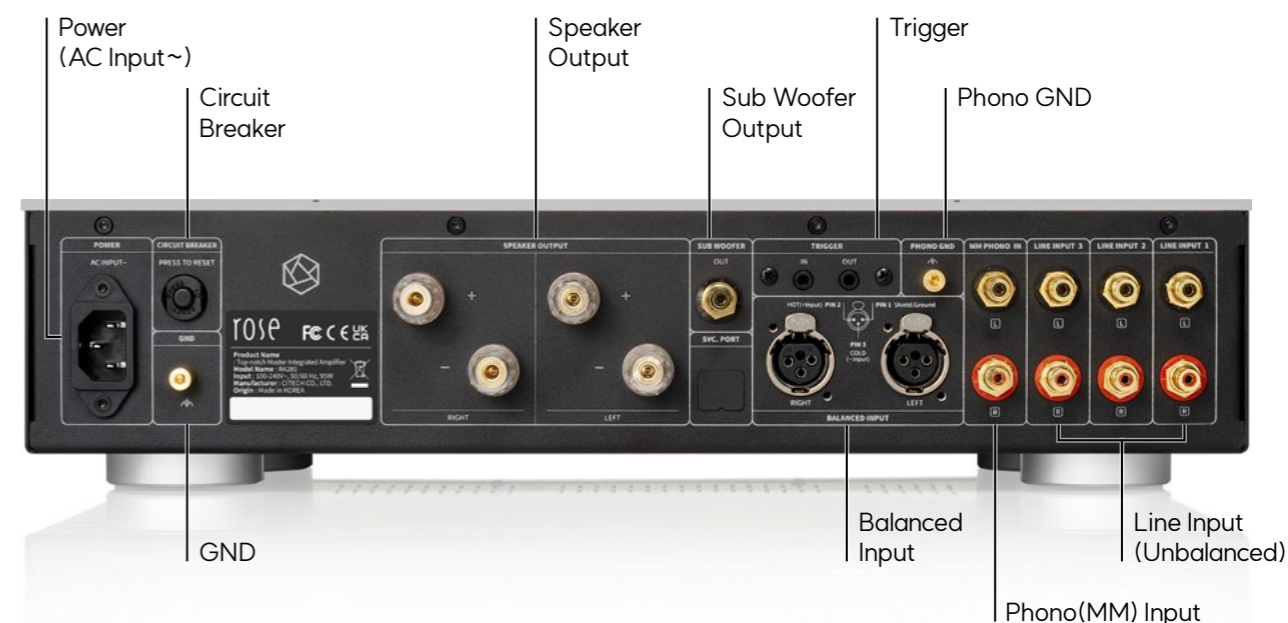
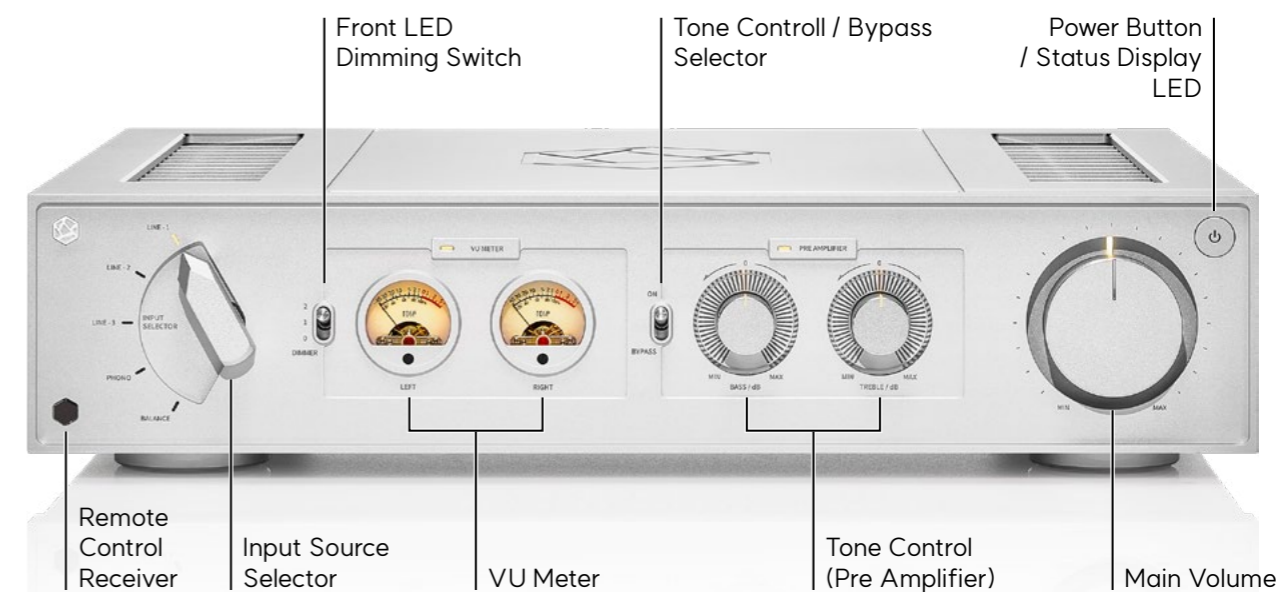
## Two Completely Separated Mono Amplifier Modules

The RA280 is designed with two separate amplifier modules that operate like a mono amplifier, supporting 250W (4Ω and 8Ω) for the left and right amplifiers respectively, offering 500W output on a stereo channel. Two-stage analog filter technology designed by HiFi ROSE is applied for the best sound quality, improving frequency response characteristics, dramatically reducing noise caused by switching of class D amplifiers, and providing clean and articulate sound quality. This technology allows you to experience evolved sound with an analog feel.



## Balance Control for Bass and Treble

The default output trend of the RA280 is flat and equipped with a tone control function, allowing for ±15dB adjustment of bass(100Hz) and treble(10kHz). The tone control circuit is equipped with a high-fidelity active EQ(OP-AMP: 12dB Slope) instead of passive(CR), with a gentle 6dB slope.



• Color



Black



Silver

• Specifications

Item	Condition	Specifications	Measurement Standard
Design	Size	430(W) X 355(D) X 103(H)	
	Weight	9.5kg	
	Body	Solid Aluminum, Rust-proof Steel	
Amplifier Output	4Ω	250W x 2ch (500W)	
	8Ω		
Sub Woofer Output	Mono	1Vrms (2.218dBu)	
Input Sensitivity	Balance Input	600mV	250W x 2ch
	Unbalance(Line1,2,3) Input	300mV	
	Phono(MM) Input	5mV	
Input Impedance	Balance Input	47kΩ	
	Unbalance(Line1,2,3) Input		
	Phono(MM) Input		
Bandwidth	20Hz ~ 20kHz	+0, 0dB	250W x 2ch (8Ω Speaker Output)
	10Hz ~ 66kHz	+0, -1dB	
	10Hz ~ 85kHz	+0, -3dB	
Frequency Response	20Hz ~ 20kHz	+0, 0dB	1W x 2ch (8Ω Speaker Output)
	10Hz ~ 66kHz	+0, -1dB	
	10Hz ~ 85kHz	+0, -3dB	
THD (Total Harmonic Distortion)	Balance & Unbalance(Line1,2,3) Input	0.007% (@125W)	250W x 2ch
Damping Factor	Speaker Output	>250	250W x 2ch
S/N (Signal to Noise Ratio)	Balanced / Unbalanced / Phono(MM)	109dB / 109dB / 85dB	250W x 2ch
Output Impedance	Speaker Output	30mΩ	250W x 2ch
Tone Control	Bass(100Hz) / Treble(10kHz)	±15dB	1W x 2ch (Speaker Output)
Phono(MM)	Turnover	500Hz (+13dB@100Hz)	RIAA
	Roll-off	2.1kHz (-13.7dB@10kHz)	RIAA
Power	Output Power	500W (SMPS)	Maximum Output : 600W
	Input Voltage	AC100-240V, 50/60Hz	Standby Mode Power Consumption < 0.5W
Audio In/Out on Rear	Trigger In	Voltage can be turned on 3.3V ~ 12V	
	Trigger Out	Voltage can be turned on 12V	
Remote Control	IR Input	38kHz Infrared Ray (Within 10m of Operating Distance)	