

aune

N7 Headphone Amp

User Manual

Preface

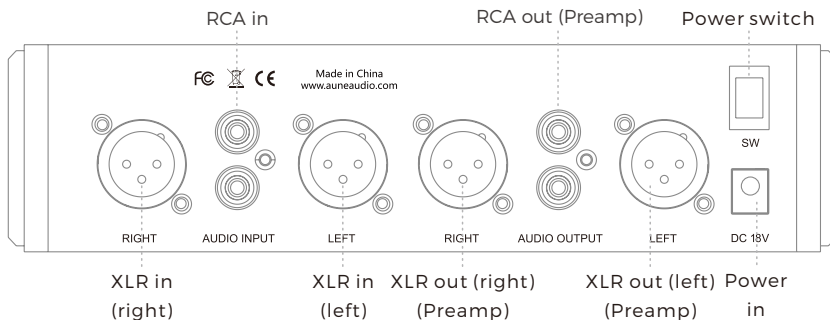
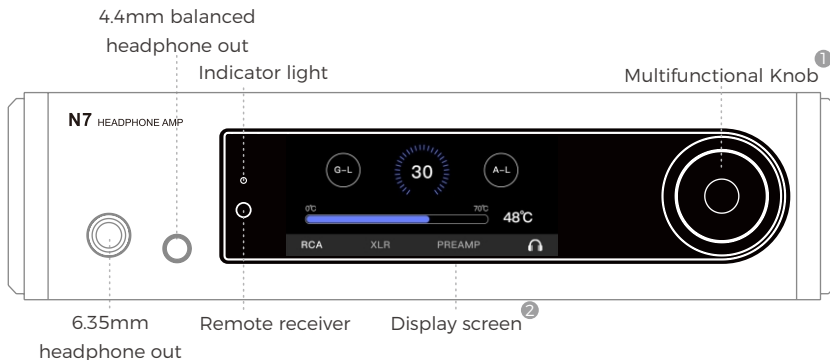
Dear Customer:

Thanks for purchasing the aune N7 and congratulations on choosing this high-quality headphone amp.

We sincerely hope the N7 will bring you an exceptional Hi-Fi experience.

Please read this manual carefully to ensure proper use of the device.

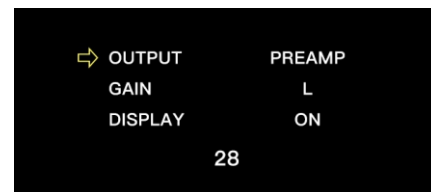
Panel at a Glance



① Multifunctional Knob

1. Rotate the knob to adjust volume (MAX: 30)
2. Press the knob to switch input channel
3. Double-press the knob to toggle current mode
4. Press and hold the knob for 3 seconds to enter the settings menu;

Press and hold again to exit



▲ Press and hold the knob for 3 seconds to enter the settings menu.

Rotate the knob to select:

Output mode (Headphone/Preamp)

Gain level

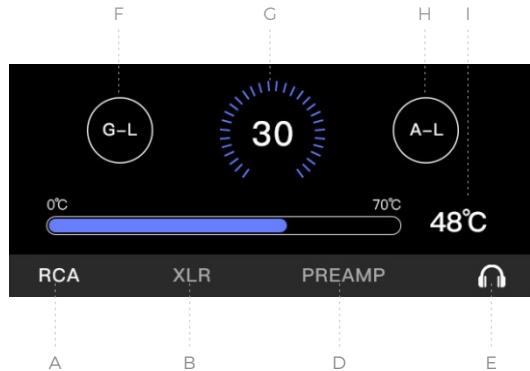
Display timeout (30/60 seconds)

Press the knob once to confirm your choice.

Use another long press to exit the settings menu (or it will auto-exit after 30 seconds of inactivity). The display will turn off after 30/60 seconds, and any operation on the knob will wake the screen.

Panel at a Glance

② Display screen



A: RCA lit indicates RCA input channel is active

B: XLR lit indicates XLR input channel is active

C: USB lit indicates USB input channel is active

D: PREAMP lit indicates preamp output is active

E: Headphone icon lit indicates headphone output (6.35mm or 4.4mm) is active

F: Gain level indicator

G-L lit → Low gain

G-H lit → High gain

G: Volume indicator (MAX: 30)

H: Current mode indicator

A-L lit → Low current

A-H lit → High current

I: Temperature display with progress

bar and numeric display

Introduction

The N7 is a compact class-A fully-discrete headphone amplifier, featuring twin JFET (junction field-effect transistor) input, R2R electronic volume control, dual-level Class A current adjustment, dual gain settings, and an independent Class-A preamp function. This high-performance headphone amplifier delivers rich, high-fidelity sound with exceptional musicality.

Specifications

Input/Output Impedance:

RCA input impedance	10K Ω
RCA preamp output impedance	200 Ω
XLR input impedance	22K Ω
XLR preamp output impedance	100 Ω
6.35mm/4.4mm headphone output impedance	1 Ω

Single-Ended 6.35mm Headphone Output:

Frequency response (20Hz~80kHz)	$\pm 0.05\text{dB}$
THD+N	<0.0004% @1kHz
SNR	>105dB @600 Ω
Crosstalk	<-100dB @1kHz 600 Ω

Balanced XLR headphone output:

Frequency response (20Hz~80kHz)	$\pm 0.05\text{dB}$
THD+N	<0.0004% @1kHz
SNR	>105dB @600 Ω
Crosstalk	<-100dB @1kHz 600 Ω

Dimensions:

208*160*83(mm)

Accessories:

Power adapter, power cord,
6.35mm to 3.5mm adapter,
quick start guide

Specifications-OutputPower

G-L (Low Gain) Single-Ended Output	Load	Power
	32Ω	570mW
	100Ω	190mW
	150Ω	130mW
	250Ω	79mW
	300Ω	66mW
	470Ω	42mW
	600Ω	33mW

G-L (Low Gain) Balanced Output	Load	Power
	32Ω	2150mW
	100Ω	720mW
	150Ω	500mW
	250Ω	316mW
	300Ω	270mW
	470Ω	172mW
	600Ω	135mW

G-H (High Gain) Single-Ended Output	Load	Power
	32Ω	1900mW
	100Ω	616mW
	150Ω	416mW
	250Ω	252mW
	300Ω	213mW
	470Ω	136mW
	600Ω	106mW

G-H (High Gain) Balanced Output	Load	Power
	32Ω	6570mW
	100Ω	2190mW
	150Ω	1500mW
	250Ω	900mW
	300Ω	750mW
	470Ω	480mW
	600Ω	370mW

Operating Instructions

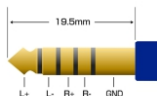
As a Headphone Amplifier

1. Player line output → N7 line input (RCA/XLR)
2. Insert headphones
3. Press the knob to switch input
4. Rotate the knob the adjust volume
5. Double press the knob to toggle current mode
6. Press and hold the knob to enter the settings menu

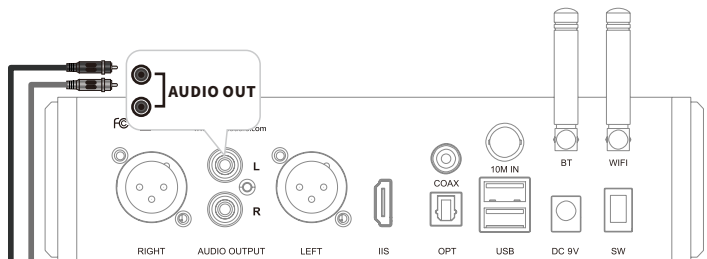
* Do not plug in more than
one pair of headphones.

4.4mm interface definition

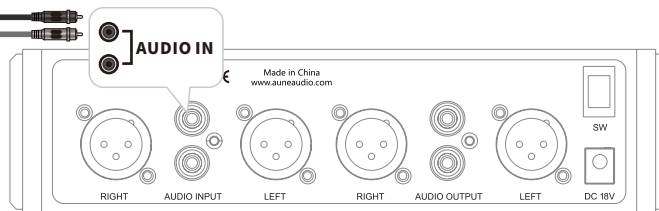
Left channel+
Left channel-
Right channel+
Right channel-



Recommended to pair
with the SR7000
closed-back headphones

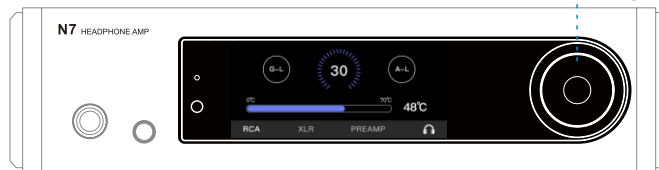


N5 EVO Multi-Media Music Player



N7 Rear Panel

Multifunction knob: Press: switch input channel
Double press: toggle current mode
Press and hold: enter settings



N7 Front Panel

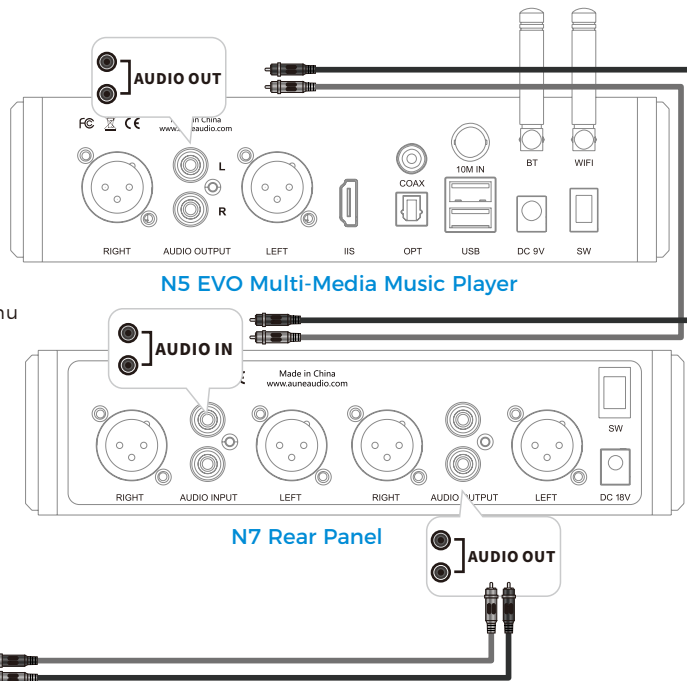
Operating Instructions

As a Preamp

1. Player line output → N7 line input (RCA/XLR)
2. N7 preamp out → amp or active speakers
3. Press the knob to switch input
4. Rotate the knob the adjust volume
5. Double press the knob to toggle current mode
6. Press and hold the knob to enter the settings menu



Active Speakers



aune

aune | 430034 WUHAN | CHINA

Email: sales@auneaudio.com | Fax: +86-27-85840435 | www.auneaudio.com