L30 II NFCA HEADPHONE AMP



Hi-Res

Headphone amp/ Preamp application	Hi-Res AUDIO Hi-Res Audio	O H O M L 3 gain settings
NFCA	<0.00006%	144dB
Modules	THD+N	DNR
<0.3uVrms *	<0.1Ω	3500mW x 2@16Ω 560mW x 2@300Ω
Noise	Output Impedance	Maximum output power
* The actual noise level is obtained by boosting the noise of		

^{*} The actual noise level is obtained by boosting the noise of L30 II by 100 times using a low noise amplifier in front of the APX555B then dividing the measured noise by 100 times.

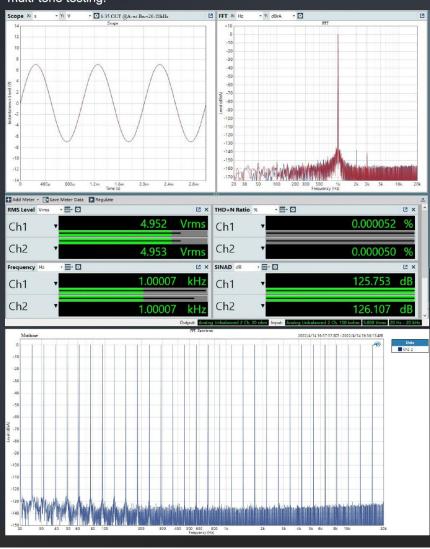
What are the differences

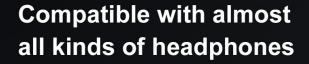
	L30 II	L30
Amp	Improved NFCA	NFCA
THD+N	<0.00006%	<0.00007%
Dynamic Range	144dB	141dB
Output power at 300Ω load	560mW x2	280mW x2
Gain	-14dB/0dB/16.5dB	-9.9dB/0dB/9.5dB
Output Voltage	37Vpp	26Vpp



Sound quality is never a problem

With the help of NFCA, L30 II easily reach the top of the industry, and it has almost perfect performance regardless of distortion, dynamic range, and multi-tone testing.





L30 II's output has high output voltage, high current, low output impedance, so no headphones that can't be dealt with.

High output voltage can easily drive high impedance headphones; High output current allows low-sensitivity headphones to obtain enough power;

The low output impedance will not bring unnecessary effect on FR when driving low-impedance headphones.

Different headphones can be easily driven by the L30 II.



Output Voltage

Output Peak Current

Output Impedance

37Vpp

1400mA

<0.1Ω

Low distortion while outputting high power

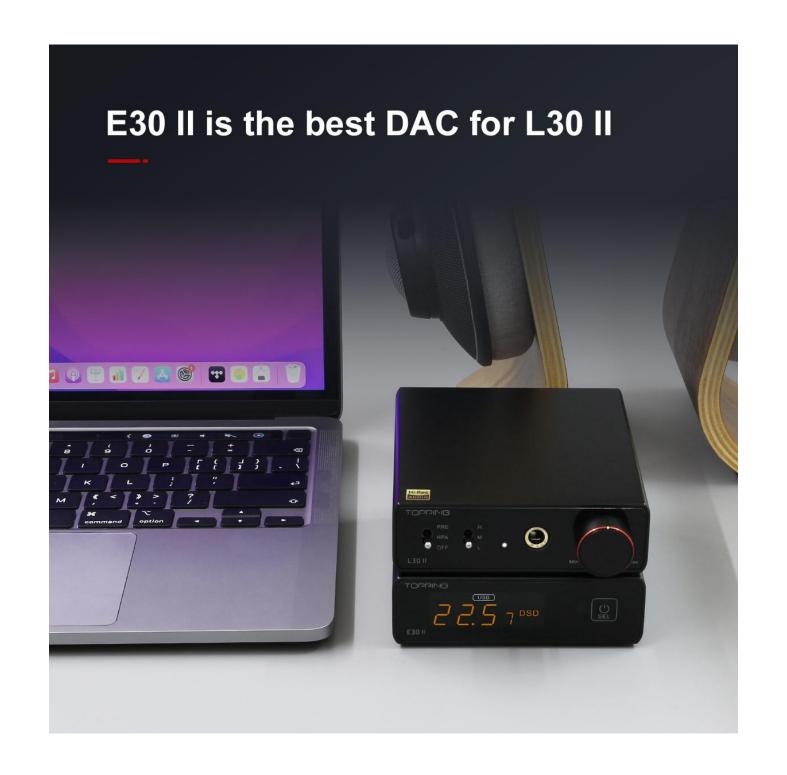
The L30II can maintain ultra-low distortion output under high power load. Under 32 ohm load and 2500mW output, the THD+N is lower than 0.00008%; under 300 ohm load and 300mW output, the THD+N is lower than 0.00007%.



Three gain settings to suit different needs

L30 II has three gain options: -14dB, 0dB, 16.5dB. Improved gain settings can cover a wider range of needs to meet the needs of different headphones from low-sensitivity full-sized over-ears to high-sensitivity IEMs. With the help of extremely low noise 0.3uV, even IEMs will not hear any background noise.



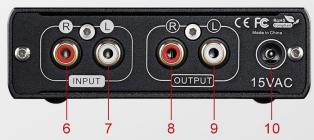




We also recommend that L30II and E30II be used with active speakers. Connect the two outputs of L30II to headphones and active speakers. By switching the outputs of L30II, you can enjoy music on headphones and active speakers respectively.







1 Output switch

Switch to PRE output(RCA output) or HPA output(Headphone output), or turn off.

2 Gain switch

H / M / L respectively corresponds to 16.5dB / 0dB / -14dB

3 Power indicator

The light will be always on when the L30 II is turning on, and goes off when it is turning off, blinks to indicate unexpected output.

4 6.35mm headphone output jack

Suitable for headphones with 6.35mm jack

5 Volume knob

Used to adjust the volume. It is recommended to turn down the volume before playing music.

- 6 Right channel single-ended RCA input
- 7 Left channel single-ended RCA input
- 8 Right channel single-ended RCA output
- 9 Left channel single-ended RCA output
- 10 Power input

AC15V/1A 50Hz/60Hz





Contents list



1 L30 II

4 User manual

2 AC adapter

- 5 Warranty card
- 3 6.35 mm to 3.5 mm adaptor

Spec

L30 II Headphon	e Amplifier specifications	
TUD IN GALUE (At)	<0.00006% @Output=500mW (32Ω)	
THD+N @1kHz (A-wt)	<0.00005% @Output=80mW (300Ω)	
TUD @20 2011 - 001 PW	<0.00008% @Output=500mW (32Ω)	
THD @20-20kHz 90kBW —	<0.00007% @Output=80mW (300Ω)	
SNR @MAX OUT 1kHz (A-wt)	144dB	
Dynamic Range @1kHz (A-wt)	144dB	
Frequency Response	20Hz-40kHz (±0.05dB)	
	14Vpp @G=L	
Output Level	31Vpp @G=M	
	37Vpp @G=H	
	<0.7uVrms @G=L	
AP measured noise level (A-wt)	<0.7uVrms @G=M	
	<1.5uVrms @G=H	
	<0.3uVrms @G=L	
Actual noise level* (A-wt)	<0.3uVrms @G=M	
	<1.4uVrms @G=H	
Channel Crosstalk @1kHz	-92dB	
	25Vrms @G=L	
Input sensitivity	11.2Vrms @G=M	
	2.0Vrms @G=H	
	-14.0dB @G=L	
Gain	0dB @G=M	
	16.5dB @G=H	
Output Impedance	< 0.1Ω	
	3500mW x 2 @16Ω THD+N<0.1%	
Output Power	2700mW x 2 @32Ω THD+N<0.1%	
Output Power	2000mW x 2 @64Ω THD+N<0.1%	
	560mW x 2 @300Ω THD+N<0.1%	
Load Impedance	>8Ω	

*Note:

- 1. The above data is the result of the test in TOPPING laboratory under AC220V 50Hz condition.
- 2. The actual noise level is obtained by boosting the noise of L30 II by 40dB using a low noise amplifier in front of the

APx555B then dividing the measured noise by 100 times.

L30 II Pre-ampli	fier specifications
THD+N @1kHz (A-wt)	<0.0006%
THD @20-20kHz 90kBW	<0.00007%
SNR @MAX OUT 1kHz (A-wt)	144dB
Dynamic Range @1kHz (A-wt)	144dB
Frequency Response	20Hz-40kHz (±0.05dB)
	14Vpp @G=L
Output Level	31Vpp @G=M
	37Vpp @G=H
	<0.7uVrms @G=L
AP measured noise level (A-wt)	<0.7uVrms @G=M
	<1.5uVrms @G=H
	<0.3uVrms @G=L
Actual noise level* (A-wt)	<0.3uVrms @G=M
	<1.4uVrms @G=H
Channel Crosstalk @1kHz	-92dB
	25Vrms @G=L
Input sensitivity	11.2Vrms @G=M
	2.0Vrms @G=H
	-14.0dB @G=L
Gain	0dB @G=M
	16.5dB @G=H
Output Impedance	20Ω

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