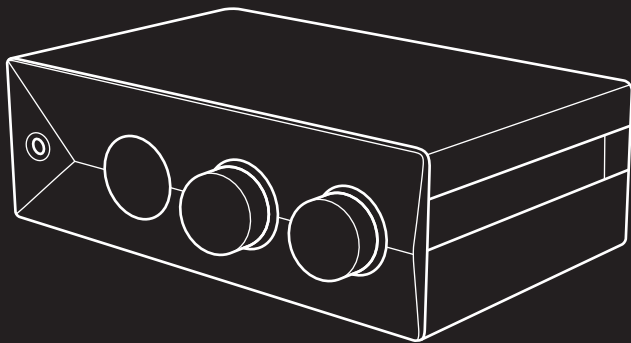




THA-21

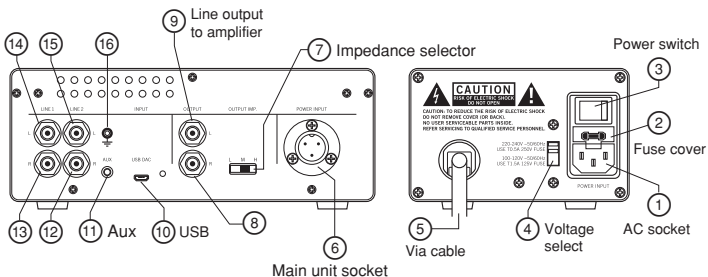
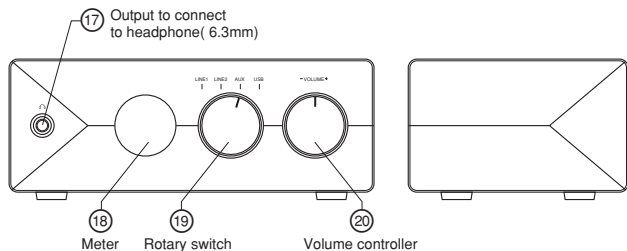
Desktop Headamp
Class A Amplification

USER MANUAL



FEATURES & OPERATING

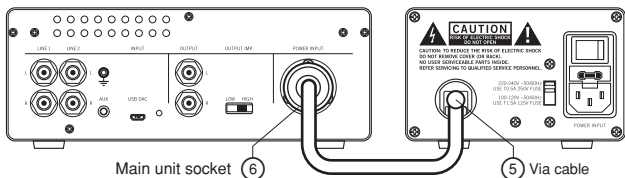
Class of operation	Class A
Input and Output connection	2 pairs x RCA, 1 x AUX (3.5mm), 1x micro USB, 1x audio jack (6.3mm), 1 pair x RCA (output)
DAC	via USB connector
Meter indication	Deflection meter type for signal monitor
Main voltage	110 and 230V (By selector switch)



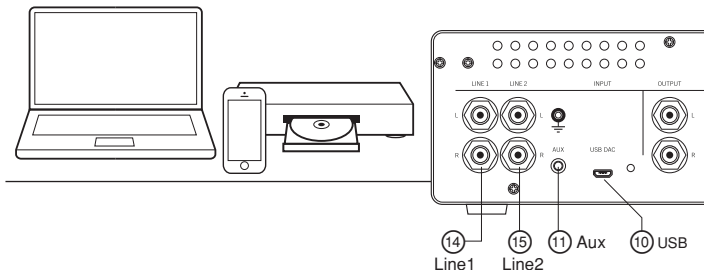
Preparation

Connect AC cord to transformer unit ① and select correct mains voltage (110V or 230V) ④. Product shipped with correct Fuse installed. In case to replace fuse, please use correct type as marked on fuse cover ②.

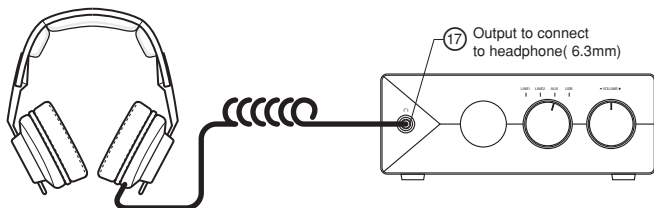
Connect the transformer to main unit socket ⑥ via cable ⑤. Please allow about 10 minutes after Power up to leave time to warm up vacuum tube for best performance.



Connect audio cable to your device and THA-21 input USB ⑩, Aux ⑪, Line1 ⑬⑭, Line2 ⑫⑮. When connecting your music source to input connections. Remember to select the correct source from switch on front panel ⑰ to appropriate position. There is a ground connection for turntable ⑯ grounding purpose



Connect your earphone to THA-21 ⑰ 6.3mm jack.

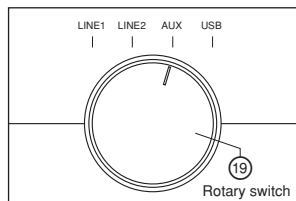


Power on

Turn on units power switch ③ on the transformer, the meter power indicator will light up to indicate is ready to use. For best performance, please remember to power up unit at least 10 minutes for best performance.

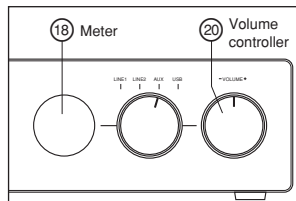
Select music source

You may select "Line1", "Line2" "AUX" or "USB" by rotary switch ⑱
Please remember to connect your music source to rear panel accordingly.



Volume level adjust

You may adjust the volume knob ⑳ to your desire level. The meter ⑱ will provide how strong the signal level and rhyme deliver to your headphone.



Headphone impedance

You may have several headphone of different impedance. The impedance commonly in the market is 16 Ω , 32 Ω and some may over hundred. Our THA-21 caters for different headphone impedance to provide best performance. You may select the impedance setting from rear panel ⑦; "L" for 16~30 Ω , "M" for 32~90 Ω and "H" for 100~300 Ω .

Cascade to following amplifier stage

If you wish to make use of the THA-21 Vacuum tube pre-amplifier stage for your other amplifier. You may use THA-21 output ⑧⑨ as tube amplifier stage for following amplifier stage to your other instrument.

SPECIFICATION

Output Power	140mW x 2 (16 Ω Load), 13mW x 2 (300 Ω Load)
Headphone Impedance	16 Ω ~ 300 Ω
Frequency Response	10Hz ~ 25KHz (with load <100 Ω)
Signal to Noise Ratio	>95dB (A weight)
Stereo Separation	>50dB (1mW 16 Ω)
Weight	4100g
Size (LxWxH)	Amplifier: 214(L) x 155.5mm(W) x 82.5(H) Transformer: 129(L) x 140.8mm(W) x 82.5(H)

Warranty

In the event of a defect within the warranty time, please contact your local distributor for warranty service, or contact with Lars-Ivan/ STI Technology Ltd for details.

Please complete the following details and send back to Lars-Ivan/
STI Technology Ltd for 12 months free warranty service.

Personal Details

Model:	Date of purchase:
Where purchased:	
Customer name:	
Phone:	
e-mail:	
Address:	

Detail of Maintenance

e-mail: cs@lars-ivan.com

Address: 1210, 12/F, Tower A, Hung Hom Commercial Centre
39 Ma Tau Wai Road, Kowloon, Hong Kong



Lars & Ivan
www.lars-ivan.com



RoHS

