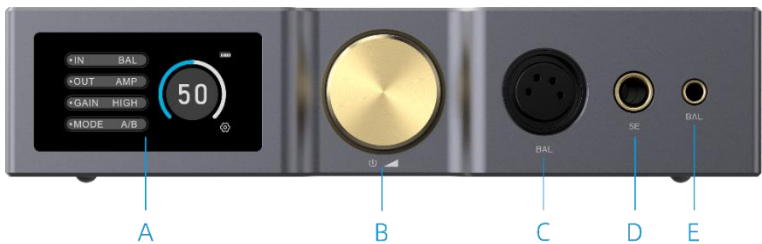
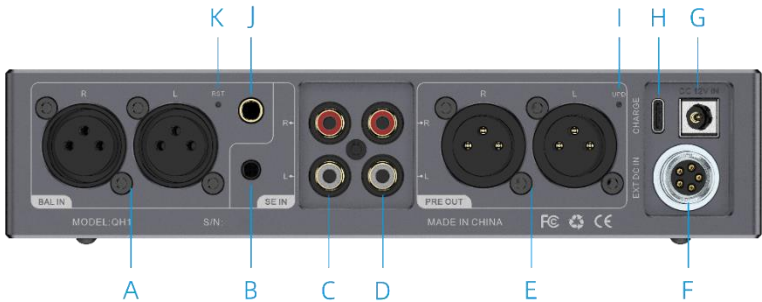


【Front Panel】



A	1.9-inch Capacitive Touch Display
B	Power Switch (Long Press) / Volume Knob (Rotate) / Mute Switch (Short Press)
C	XLR Balanced Headphone Output
D	6.35 Single-Ended Headphone Output
E	4.4 Balanced Headphone Output

【Rear Panel】



A	XLR Input (Pin 1: GND, Pin 2: +, Pin 3: -)
B	3.5 Line-in
C	RCA Input
D	RCA Preamp Output
E	XLR Preamp Output (Pin 1: GND, Pin 2: +, Pin 3: -)
F	QH1-LPS DC Input
G	DC 12V Input (Power/Fast Charging, Plug Size 5.5*2.1mm)
H	Type-C Charging
I	Firmware Upgrade Button
J	4.4 Line-in
K	Reset Button

【DC 12V Input】

The interface features a specification of 5.5mm*2.1mm. The center pin is positive (+) and the outer barrel is negative (-). With a voltage range of 10~13V, it is recommended to use a 12V and a high-quality power supply of no less than 30W. This interface is used for external power input. When there is power input, the battery power will be automatically disconnected, allowing users to conveniently operate QH1 as a desktop device. Setting DC CHG to ON charges the battery and setting it to OFF only supplies power without charging.

Note: Charge and discharge the battery at least once every two to three months to prevent severe lifespan reduction.

【Type-C Charging】




QC fast charging protocol is supported, allowing for 12V/1.5A fast charging and normal 5V/2A charging. Type-C charging is not affected by the DC CHG switch.

【About Charging】

The battery icon turns red during charging and green when fully charged. One lightning bolt means small current charging, while two lightning bolts indicate fast charging. Fast charging takes 4-5 hours and small current charging lasts 8-10 hours. When the main unit operates in Class A mode, charging will be automatically disabled. When connected to the QH1-LPS power supply, the linear power supply only provides power and does not charge the battery. If charging is required, a charger needs to be connected (Either the 12V power supply from the DC port or the charger from the Type-C port will work) .

【About Power Supply】

QH1 supports three power supply methods: internal battery power, 12V DC power, and optional matching QH1-LPS linear power supply.

		
Powered by Battery	Powered by DC	Powered by QH1-LPS
Power Supply Priority: QH1-LPS > DC > Battery		

【Menu Description】

This product features a 1.9-inch capacitive touch display for configuring main unit parameters by touch.

Input | Input Method

- › **SE:** 3.5 Line-in or RCA Input (Simultaneous use not allowed)
- › **BAL:** 4.4 Line-in or XLR Input (Simultaneous use not allowed)

Output | Output Method

- › **AMP:** Headphone Amplifier Output
- › **PRE:** Preamp Output
- The volume settings for the two output methods are stored separately. To avoid sudden volume changes, disconnect the device before switching the output method and reconnect the device after volume adjustment.

DC CHG | Battery Charging Swit

- › **ON:** DC power provides power to the device and offers fast charging.
- › **OFF:** DC power only provides power to the device.

LCD B/L | Display Brightness

- › **LOW:** Low Brightness.
- › **HIGH:** High Brightness.

LCD Close | Auto Off

- › **OFF:** Always On.
- › **ON:** The display automatically turns off after 30 seconds of inactivity, and any operation wakes it up.

Display | Screen Display Mode

- › **Level:** Main Interface Horizontally Displayed.
- › **Portrait:** Main Interface Vertically Displayed.

Fine | Left and Right Channel Volume Fine-tuning

- › **Fine-tuning Range:** 0 to +3, with a Default Setting of 0.

VOL Step | Volume Step Adjustment

- › **100:** 100-Step Volume Adjustment.
- › **200:** 200-Step Volume Adjustment.
- Typically, 100-step volume adjustment is used. For precise volume adjustment, the 200-step volume adjustment can be selected.
- Volume progress bar is blue for 100-step volume adjustment and orange for 200-step volume adjustment.
- The volume is switched to the default setting with each step change.

About | About the Main Unit

- › **Version** Device Firmware Version
- › **Temp:** Current Device Temperature
- › **Recovery:** Restore to default setting; long press Recovery until "OK" appears to confirm successful restoration to the default setting.

Mode | Headphone Amplifier Operating Mode

- › **A:** Headphone Amplifier Operates in Class A Mode.
- › **A/B:** Headphone Amplifier Operates in Class A/B Mode.
- Given the substantial heat production in Class A mode and the battery's unsuitability for high-temperature usage, Class A mode is not supported when using the battery power supply. Additionally, battery charging is disabled in Class A mode.
- Built-in over-temperature protection automatically switches the system from Class A to A/B mode once the temperature exceeds the set value.

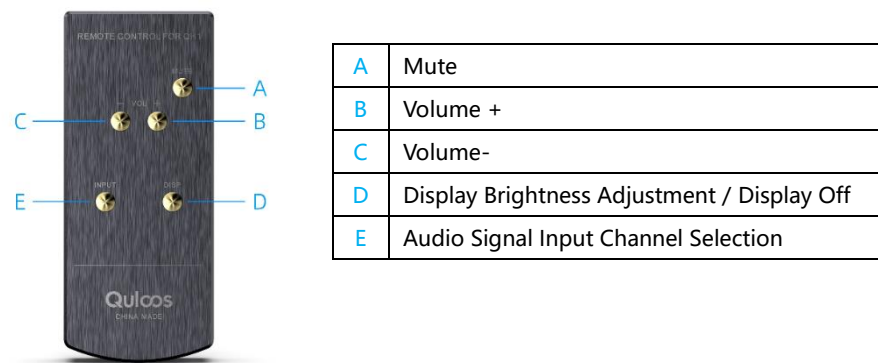
Gain | Headphone Amplifier Gain

- › **LOW:** Low Gain › › **MID:** Medium Gain › › **HIGH:** High Gain
- When using the preamp output, the gain will automatically adjust to the medium setting.

Voltage | Headphone Amp Operating Voltage

- › **±8V:** Low Voltage Mode; the headphone amplifier power supply voltage is $\pm 8V$.
- › **±15V:** High Voltage Mode; The headphone amplifier power supply voltage is $\pm 15V$.
- Voltage is not adjustable when using the external QH1-LPS linear power supply.

【Infrared Remote Control】



【Precautions】

1. The output signal of this device cannot be directly grounded or short-circuited.
2. Make sure to turn down the volume before connecting any input/output lines or headphones to the QH1.
3. Listening at high volumes for extended periods can damage hearing. Always select an appropriate volume when using this product.
4. If the remote control fails to work near the QH1, replace its battery. (The remote control is powered by a CR2032 button battery located on the PCB board. Use a PH00 screwdriver to remove the four back cover screws when replacing the battery.)
5. Please operate the device in a well-ventilated environment. High temperatures can activate temperature protection, thus restricting some functions. Operating the device in excessively high-temperature environments can permanently damage the battery's lifespan.
6. If the system crashes, unplug the external power source and press the RST reset button for a forced shutdown.

【Contact US】

E-mail: cxqmcu@cxqmcu.com or clark_chen@aliyun.com

『Appendix Product Warranty Card』

Please fill this form and send it back to us along with the product needs service.

Product	QH1	S/N	
Date			
User Name		Zip Code	
Mobile		Tel	
Address			
Customer Feedback			
Cause Analysis and Solution	(This part is filled by the manufacturer)		
Remarks			

Company: ShenZhen QLS Electronic Technology Co.,Ltd (Quloos)

E-mail: cxqmcu@cxqmcu.com

Web: <http://www.qlshifi.com>