



L1.5 Line Preamplifier

Quick start Guide

Thank you for choosing the L1.5 Line Preamplifier for your audio system. The L1.5, like all the other products designed by CH Precision, is highly versatile. Unlike many, more conventional line stages, in order to achieve the best results from your unit, it is important to read the user manual that contains all the information needed to set up, configure and use your L1.5. The current user manual is included with your line stage (on the USB stick) in the accessory pack. The latest version of both the manual and the unit Firmware is also available to download at www.ch-precision.com.

This guide will help you get started with your L1.5 Line Preamplifier.

You will need a box cutter and somebody to help with the lifting. The L1.5 is quite heavy and we strongly recommend that it be moved and placed by two people.

1. Open the box carefully (it's heavy!)

It should contain:

- The L1.5 Line Preamplifier
- The accessory box and manual.
- Four CH Aluminium spikes (located in the bottom piece of foam).
- Four CH polymer footer discs.
- Four small CH, dimpled polymer stacking caps.
- One mains power cord.
- A suction cup (located in the top piece of foam) and other tools.
- The small, hand-held remote.
- A CH Precision USB drive.

If anything is missing or if the unit presents cosmetic damage due to transportation, please contact your dealer immediately.

2. Placing your unit (remember – it's heavy!)

- First check that the voltage selector located on the IEC socket at the back of your unit is displaying the voltage in use at your location. If different, do not continue with this procedure and contact your dealer for assistance.
- If using the integral ground/support spikes:
 - Unscrew the unit's four Top Covers using the provided suction cup.
 - Insert the CH Spikes into the wells and start them in the threads in the base, ensuring you don't insert them too far, so that the spikes show and might damage the supporting surface.
- Place the L1.5 Line Preamplifier in its final position, ensuring there is sufficient airflow around, above and below it. If installing the CH Spikes, locate the four footer discs beneath the unit's feet (You can use an AirWedge or similar lifting bladder to help with this). Now, using the short screwdriver provided, wind the spikes down until they lift the unit clear of the support discs. Ensure that all four spikes are in even contact/show equal resistance when turned and that the unit is precisely level. Replace the top caps.
- If you are stacking CH units you need to replace the top-caps with the small, dimpled stacking caps provided in the accessory pack. The spikes of the upper unit should be retracted when placing that unit and should locate directly into the dimples in the caps when extended. Level the upper unit as described above.

3. Power connections

- Before attempting any electrical connections, set the power switch at the back of the power supply unit to OFF (the 0 on the switch should be depressed).
- Connect the unit to the mains grid using the provided power cord.
- **Always connect the power cord before connecting any signal cables.**
- **If using the L1.5 with CH Precision X1 External Power supply, refer to the X1 instructions regarding connection, before proceeding any further.**

4. Audio connections

Never attempt to make or modify audio connections with your L1.5 Line Stage powered on. The unit's back panel switch must be in the OFF position while making audio connections. The mains power cords should be plugged into the wall socket so that the unit is grounded.

- Note that the L1.5 features both balanced XLR inputs and single-ended RCA inputs.
- Outputs from the L1.5 are on balanced XLR and single-ended RCA connectors.
- Connect the Left and Right channels of your source components to the inputs of the L1.5. Note which source is connected to which input. The interconnection can be XLR or RCA.
- Connect the L1.5 Line Preamplifier Left and Right channel outputs to the corresponding inputs on your power amplifier(s). Try to keep signal cables away from AC power cords. If they must cross, try to space them and cross at right angles.
- Use XLR connections whenever possible, both from source components and to power amplifiers.
- If you wish to use the CH Control App (and we strongly recommend that you do, as this allows direct remote access to the L1.5's full functionality) use a Cat 6 Ethernet cable to connect the Ethernet Control socket to the system network. The Control App can be downloaded from the L1.5 product page at www.ch-precision.com.

5. Switch on

Once you have made all of the power and audio connections, you can turn on your L1.5. First, use the rear switch to put the unit to standby. You will see the red LED in the front-panel CH logo (top left) blink a few times and then illuminate. Then press the central part of the dual-concentric encoder once. The power LED flashes and the main screen indicates that the L1.5 is initializing. Once startup is complete, the screen displays the input status. You can then use/configure your L1.5.



6. Configuring the inputs

The L1.5 allows you to configure each input individually. You can customize:

- Input gain
- Input name (up to 12 characters)
- Input status (active, hidden or unity gain)

You can set or adjust the parameters using either the CH Control App or the front-panel encoder. However integrating the L1.5 into the system network/Control App may require you to set the correct network settings by using the front-panel encoder and the instructions in the main manual.

Once all sources are connected, it is strongly recommended to perform a calibration for each individual input to eliminate any DC noise that the source might introduce. Each time the source assigned to the input is changed, it is preferable to calibrate again once the L1.5 is warmed up.

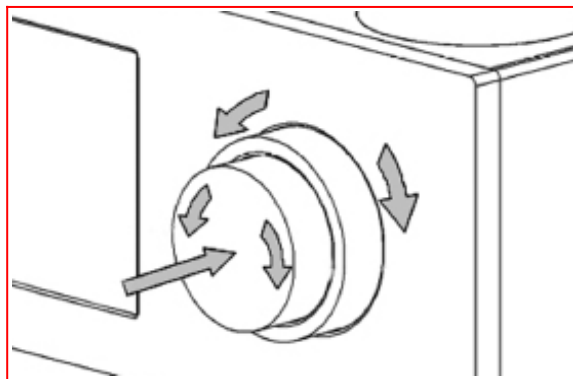
7. Advanced settings

There are a number of advanced and global settings and connections that can be applied to your L1.5. These include:

- The ground sockets and lift located on the back of the unit
- Absolute phase inversion
- Mono or stereo operations
- Display settings and power LED status
- Firmware updates
- Network remote control of any CH Precision component
- Maximum start-up and operating levels
- Input and internal DC calibration automated procedures

Please see the full manual for information on these important features.

8. Basic Operation (Rotary Control and IR Remote Control)

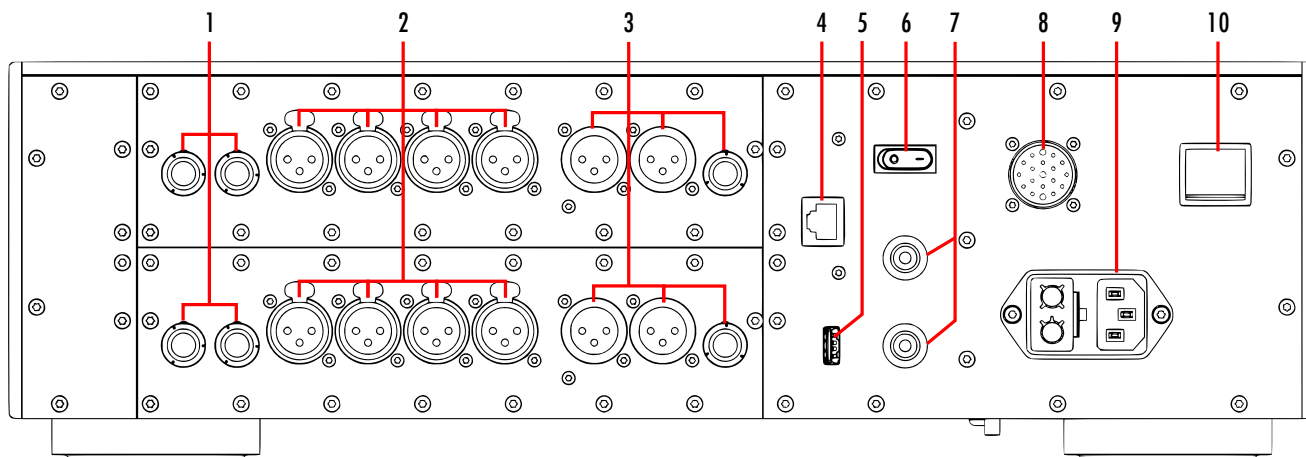


From Standby -
Push center knob to switch on.

In Operational Mode -
Turn outer ring to select an input.
Turn center knob to set volume level.
Push the center knob to navigate through the shortcuts. Then turn knob to alter selected function or to enter menu (Detailed Setup screen).

In Detailed Setup Mode -
Turn center knob to navigate up/down.
Push center knob to select or save.
Turn outer ring anti-clockwise to exit.

In all modes -
Push center knob and keep pressed to power L1.5 down to standby.



L1.5 Rear panel connections

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|---------------------------------|--------------------------------------|
| 1. RCA inputs | 6. Ground lift switch |
| 2. XLR inputs | 7. Signal and chassis ground sockets |
| 3. RCA & XLR outputs | 8. X1 power input |
| 4. Network connection | 9. Mains power IEC socket + fuses |
| 5. USB-A firmware update socket | 10. Mains switch |