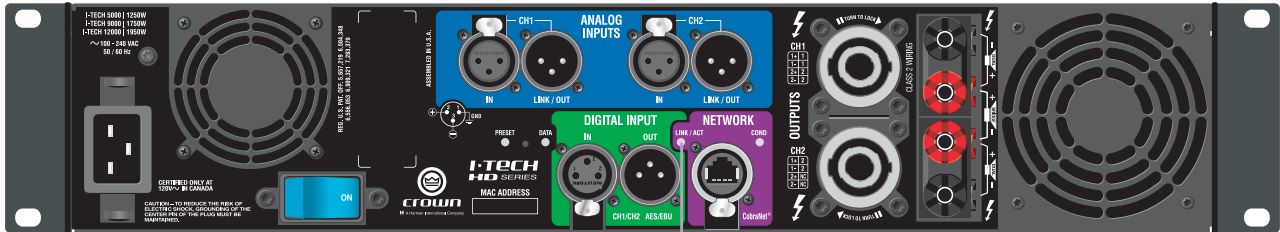


PRELIMINARY

I-Tech HD™ Quick-Start Guide



Welcome! Operating your I-Tech amplifier can be as simple or advanced as you wish. Right out of the box, it works like any other amplifier with stereo loudspeaker loads.

•Dual and bridge-mono operating instructions are on the opposite side of this sheet.

• When using an equipment rack, mount units directly on top of each other. Close any open spaces in rack with blank panels. DO NOT block front or rear air vents. The side walls of the rack should be a minimum of two inches (5.1 cm) away from the amplifier sides, and the back of the rack should be a minimum of four inches (10.2 cm) from the amplifier back panel.

• If you want to control and monitor the amplifier with Harman's System Architect®, please follow the information included with System Architect. If you want to load DSP presets or perform diagnostics using the amplifier's LCD control screen, see Section 4.2 in the operation manual.

Crown Factory Service
1718 W. Mishawaka Rd.,
Elkhart, Indiana 46517 U.S.A.

Telephone:
574.294.8200
800.342.6939 (North America,
Puerto Rico, and Virgin Islands only)

Facsimile:
574.294.8301 (Technical Support)
574.294.8124 (Factory Service)

Internet:
<http://www.crownaudio.com>

Please read this before you start:

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Use the mains plug to disconnect the apparatus from the mains.
16. **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.**
17. **DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.**
18. **THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.**

Ensure Proper Cooling

When using an equipment rack, mount units directly on top of each other. Close any open spaces in rack with blank panels. DO NOT block front or rear air vents. The side walls of the rack should be a minimum of two inches (5.1 cm) away from the amplifier sides, and the back of the rack should be a minimum of four inches (10.2 cm) from the amplifier back panel.

The figure to the right illustrates standard amplifier airflow.

TO PREVENT ELECTRIC SHOCK DO NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

À PRÉVENIR LE CHOC ÉLECTRIQUE N'ENLEVEZ PAS LES COUVERCLES. IL N'Y A PAS DES PARTIES SERVICEABLE À L'INTÉRIEUR. TOUS REPARATIONS DOIT ÊTRE FAIRE PAR PERSONNEL QUALIFIÉ SEULMENT.

PARA PREVENIR UN CHOQUE ELÉCTRICO, NO RETIRE LAS CUBIERTAS SUPERIOR O INFERIOR. NO EXISTEN PARTES QUE PUEDAN SER REPARADAS POR EL USUARIO AL INTERIOR. REMITA EL SERVICICO AL PERSONAL TÉCNICAL CALIFICADO.

TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.

POUR DÉMONTER COMPLÈTEMENT L'ÉQUIPEMENT DE L'ALIMENTATION GÉNÉRALE, DÉMONTER LE CÂBLE D'ALIMENTATION DE SON RÉCEPTACLE. LA PRISE D'ALIMENTATION RESTERA AISÉMENT FONCTIONNELLE.

PARA DESCONECTAR COMPLETAMENTE EL EQUIPO DEL SUMINISTRO ELECTRICO, DESCONECTE EL CABLE DE ALIMENTACION DE LA TOMA DE CA. LAS PATAS DEL CONECTOR DEL CABLE DE ALIMENTACIÓN DEBERAN MANTENERSE EN BUEN ESTADO.

WATCH FOR THESE SYMBOLS:

The lightning bolt triangle is used to alert the user to the risk of electric shock.

The exclamation point triangle is used to alert the user to important operating or maintenance instructions.

The I-Tech Series amplifiers are certified only at 120V ~ in Canada.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ÉLECTRIQUE
N'OUVREZ PAS

IMPORTANT

I-Tech Series amplifiers require Class 2 output wiring. Les amplificateurs de série de I-Tech exigent des câbles de sortie de classe 2. I-Tech-Reihe-Verstärker verlangen Klasse die 2 Produktionsverdrahtung. Los amplificadores de la Serie I-Tech requieren de un cableado de salida Clase 2.

MAGNETIC FIELD

CAUTION! Do not locate sensitive high-gain equipment such as pre-amplifiers directly above or below the unit. Because this amplifier has a high power density, it has a strong magnetic field which can induce hum into unshielded devices that are located nearby. The field is strongest just above and below the unit.

If an equipment rack is used, we recommend locating the amplifiers) in the bottom of the rack and the preamplifier or other sensitive equipment at the top.

FCC COMPLIANCE NOTICE

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for comppliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: The third prong of the AC power connector (ground) is an important safety feature. Do not attempt to disable this ground connection by using an adapter or other methods.

Stereo Wiring

Let's assume that you unpacked and installed your amplifier with the proper cooling. If not, see Section 2 in the manual. We'll also assume that you will operate the amplifier in stereo. If you want to operate your amplifier in bridge-mono, see the section below.

1. IMPORTANT: Make sure that the amplifier is off. Unplug its power cord from the AC outlet.



2. See Figure 1. Connect two cables from your mixer output to the amplifier's XLR input connectors.

3. Using Class 2 wiring, connect speaker cables either to the amplifier's Speakon® connectors (as in Figure 2) or to the binding posts (as in Figure 1.)

4. Turn down your mixer master faders. Plug the power cord into the amplifier and then into a grounded AC outlet. **The amplifier must be plugged into a grounded AC outlet.** Turn on the front-panel power switch. The LCD Control Screen will light up (Figure 3).



5. Turn both Encoder knobs fully down (CCW) until the minimum dB gain is displayed.

6. Play a program through your mixer. Set its level to peak at 0 dB or 0 VU maximum on the mixer meters. Gradually turn up (CW) the amplifier Encoder knobs (Level controls) to the desired volume.

7. If the SPL is too high, press **Menu/Exit**, then press **Next** until you see ADVANCED MENU. Push an Encoder knob. Press **Next** until you see MAXIMUM ANALOG INPUT. Press an Encoder knob so the display reads 21 dBu. Press **Menu/Exit** twice. Press **Next**. CH1 Sensitivity will be displayed. Gradually turn up (CW) the Encoder knobs to the desired volume. Press **Exit** when done.

Warning: Only connect to networks that remain inside the building.

CAUTION – SHOCK HAZARD: Potentially lethal voltages exist at the output connectors when the amplifier is turned on and is passing a signal.

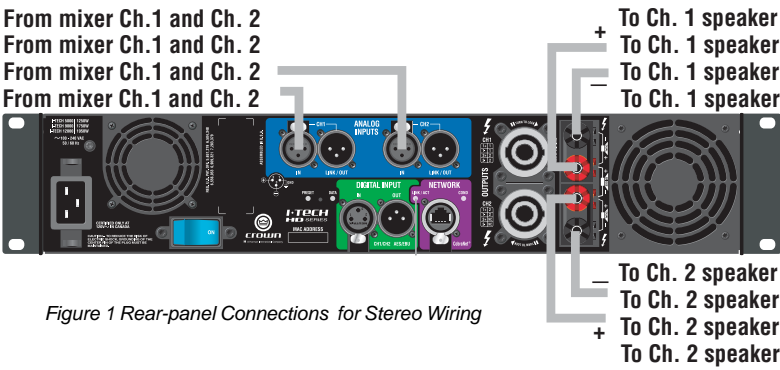


Figure 1 Rear-panel Connections for Stereo Wiring

Figure 2 Wiring Two Speakers to Two Speakons for Stereo Operation

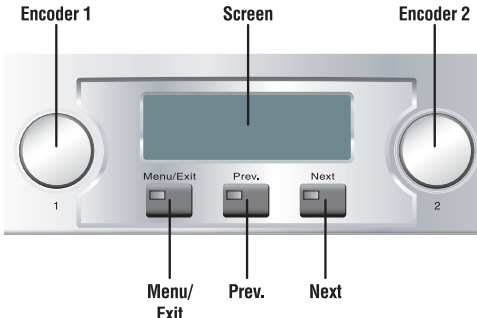
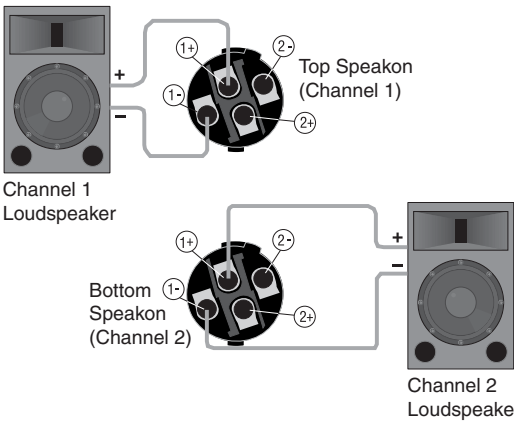


Figure 3

Bridge-Mono Wiring

Let's assume that you unpacked and installed your amplifier with the proper cooling. If not, see Section 2 in this manual. We'll also assume that you will operate the amplifier in Bridge-Mono. Basically you will turn on the amp, enable Bridge-Mono mode with the LCD Control Screen, turn off the amp, wire it, and turn it back on.

1. Be sure that no cables are connected to the amplifier. Plug the amplifier power cord into the amplifier, then into an AC outlet.

2. Turn on the amplifier power switch on the front panel. The LCD Control Screen will light up (Figure 3).

3. Under the LCD Control Screen, press the **Menu/Exit** button. Press the **Next** button until you see **Amp Mode** on the screen.

4. Turn an Encoder knob until you see Bridge Mono. Press the knob. You will be prompted to confirm your choice. Press the **Menu/Exit** button.

5. IMPORTANT: Make sure that the amplifier is off. Unplug its power cord from the AC outlet.



6. See Figure 4. Connect a cable from your mixer output to the amplifier's Channel-1 XLR input connector.

7. Using Class 2 wiring, connect the speaker cable either to the amplifier's top Speakon connector (terminals 1+ and 2+, Figure 5) or across the red binding posts of both channels (Figure 4). Do not use the black binding posts in bridge-mono mode.

8. Turn down your mixer master faders. Plug the power cord into the amplifier and then into a grounded AC outlet. **The amplifier must be plugged into a grounded AC outlet.** Turn on the front-panel power switch. The LCD Control Screen will light up (Figure 3).



9. Turn down both Encoder knobs (Level controls) all the way.

10. Play a program through your mixer. Set its level to peak at 0 dB or 0 VU maximum on the mixer meters. Gradually turn up (CW) the Encoder knobs to the desired volume.

Note: If the SPL is too high, see Step 7 under Stereo Wiring. **Warning:** Only connect to networks that remain inside the building.

CAUTION – SHOCK HAZARD: Potentially lethal voltages exist at the output connectors when the amplifier is turned on and is passing a signal.



Figure 4 Rear Panel Connections for Bridge-Mono Wiring

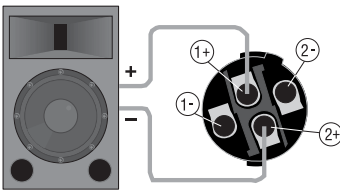


Figure 5 Wiring a Speaker to the Top Speakon Connector for Bridge-Mono Operation