



Connecting the Hot Strip

The Hot Strip has two 4-pin XLR inputs in parallel, wired in the standard configuration of PIN 4 +, PIN 1 -. Input voltage should fall within a range of 9 - 20V to protect the internal circuitry of the Hot Strip. The two parallel inputs allow float-charging of a common external 12V lead-acid battery from a standard 13.8VDC external battery charger. Power sources can also be "hot-swapped", allowing for continuous distribution to the connected devices. The Hot Strip is protected from reverse-polarity at the inputs. The Hot Strip will not power up, and no voltage will be present at the outputs if a reverse-polarity condition is detected.

There are eleven DC power outlets on the front of the Hot Strip, also wired in the standard 4-pin XLR configuration of PIN 4 +, PIN 1 -. Each outlet has auto-resetting breakers to protect against overload. The first two outlets are limited to 12A each, while the remaining nine outlets are limited to 6A each. A master 24A (auto-resetting type) breaker protects against combined overload when multiple outlets are used.

Using the Hot Strip

To turn the Hot Strip ON, press and hold both buttons for at least two seconds. The left button will illuminate to indicate that voltage is present at the outputs. To turn the Hot Strip OFF, press and hold both buttons for at least two seconds. Pressing any one of these buttons by itself will have no effect. This is to prevent accidental power cycling.

The Hot Strip can be mounted in a standard 19" wide rack with the included rack ears. The rack ears can be mounted in a variety of positions, allowing the Hot Strip to be recessed back from the front of the rack, which gives clearance to the connectors and cabling. The rack ears can also be reversed, allowing cabling and connectors to be pointed toward the rear of the rack. This is especially useful when combined with Remote Audio's RM (Remote Meter), as it allows the Hot Strip to be remotely cycled ON and OFF without requiring access to the front buttons. In applications where a 19" rack is not available, the Hot Strip can be mounted horizontally or vertically with Velcro® or an equivalent system.

Connecting the RM

The Hot Strip can be used in conjunction with Remote Audio's RM (Remote Meter). The RM allows remote voltage and current monitoring, as well as remote power cycling of the Hot Strip. Connect the RM's cable to the 6-pin connector on the front of the Hot Strip. Holding both buttons on the RM will turn the Hot Strip and the RM on, and cause both LED indicators on the Hot Strip to illuminate. This indicates that the RM is now the "master", and powering ON and OFF can only occur through the use of the RM's buttons. See the RM instruction manual for more details.

DC Power Cables

There is always some voltage drop in power cables, but the goal is to keep this drop as insignificant as possible. When using a battery system, managing this voltage drop is particularly important and can actually add hours of use before recharging is needed. For example, if a piece of equipment automatically shuts down when its supply voltage goes below 11 Volts, and there is a 1 Volt drop in the cable, then the equipment will shut down when the battery supply goes below 12 volts. Since much of the capacity of most 12 Volt battery systems is between 12V and 11V, it is easy to see how important it is to minimize the voltage drop within a cable.

The amount of voltage drop in a cable depends on three factors: 1) the amount of current drawn by the device being powered, 2) the size of the conductors inside the cable, and 3) the length of the cable. Simply put, the larger the conductors and shorter the cable, the less the voltage drop will be. But the more the current draw of a piece of equipment, the more the voltage drop. Therefore, a small cable that would have an insignificant drop with equipment drawing only 250 mA (for example) may be completely inadequate for equipment drawing 6 Amps. There are equations and formulas available to help determine the amount of voltage drop given the length of cable, size of conductors (gauge), and amount of current being drawn. The best practice, however, is to use cables that are as large and short as practical. Your Remote Audio dealer should be able to supply cables of proper length and gauge for your needs.

Are the Hot Strip outputs filtered? No. In the majority of occasions when problem noise is caused by multiple devices sharing a single power supply, simple filters at the supply would be insufficient or have no affect. DC-DC isolation converters can solve these rare issues by isolating the power supply from the device being powered. Therefore, it is recommended that when isolation is needed to solve power-loop noise, the Remote Audio "Juicer" isolating power cable (utilizing a 30 W DC-DC converter) be used between the Hot Strip and the problem device.

Repairs

Items needing repair may be sent directly to:

Remote Audio Products
220 Great Circle Road, Suite 114
Nashville, TN 37228

Prior to returning any items, contact Remote Audio for an RA# (return authorization number) at 615-256-3513, or repairs@remoteaudio.com

Limited Warranty

For a period of 1 year from the time of sale, defects in parts and workmanship will be either repaired or replaced at the determination of Remote Audio. Dated proof of purchase required.