

The Voltage Research Laboratory
Encyclopedia **Research Console Guide**

Important Information

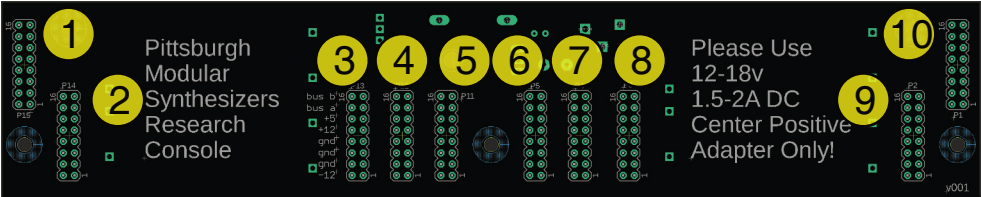


Read Instructions: Please read the System Utilities Guide completely before use and retain for future reference.

- **IMPORTANT Ribbon Cable Power Information:**
The Research Console is a Eurorack format synthesizer case and power supply. Modules can be installed, rearranged, removed, and replaced with any compatible Eurorack modules from Pittsburgh Modular or other manufacturers. The Research Console provides standard, keyed, 16 pin male power headers to connect to a 16 pin Eurorack ribbon cable attached to a Eurorack format module. Please pay very close attention to the orientation of the ribbon cable when adding and removing modules. The stripe on the ribbon cable marks -12v. This stripe needs to line up with the -12v pins on the power rail and the -12v pins on the module. As a general rule, failure to match up the pins correctly can result in damage to one or all the modules in the case.
- Turn off and unplug the power from the Research Console before removing the Eurorack power header attached to the any modules. Failing to turn off the power before removing the Eurorack power header can damage the module.
- The Research Console is an electronic device. Exposure to water will cause the Research Console circuitry to short circuit and may cause permanent damage.
- Do not attempt to modify the components of the Research Console. Tampering with the circuitry may cause permanent damage.
- Do not place heavy objects on the Research Console. The case can be damaged if stressed by excessive weight.
- Do not attempt to repair the Research Console. Please contact Pittsburgh Modular regarding malfunctions of any kind.
- Pittsburgh Modular is not responsible for any damage or loss caused by improper use of the Research Console.

The Research Console Guide Revision 0

Research Console Power



Dual Regulator Design Utilizes 2x 525mA bi-polar Power Regulators to Produce 1 Amp +12v and 1 Amp -12v of Clean, Filtered Power for the 10 keyed power headers. The 1 Amp of power is split into 2 power zones. Each power zone offers 500mA of +12v and 500mA of -12v power. The first power zone includes headers 1-5 and the second power zone includes headers 6-10. The zones share dual ground planes and an additional 1 Amp of +5v power.

The Research Console utilizes the 2 Channel Eurorack(Doepfer) System Bus for modules that may require it.

The orientation of the 10 Keyed 16-Pin Eurorack Power Headers is printed on the power board. Keyed headers should prevent accidentally plugging a power ribbon cable in backwards, but verify that the orientation of the +12v and -12v power rails match the module being attached.

Adding new modules to the Research Console is a simple process. Please follow the instructions below to ensure that new modules are installed safely and correctly. Experiment with system layout by resting a few modules in the case before installation. Power ribbon cables are much easier to attach to the power board before any modules are installed.

1. Switch the power off and unplug the power adapter from the back of the case.
2. The red stripe on the ribbon cable marks -12v. The stripe needs to line up with the -12v pins on the module. Failure to match up the pins correctly can result in damage to one or all of the modules connected to the power supply.
3. Use a small too to line up the needed sliding square nuts close to where the module will be mounted.
4. Attach the module to the sliding nuts using the included panel screws. If installing more than 1 module, do not tighten down the panel screws until all the modules are installed. This will allow some room to shift the modules as needed.
5. Once all the new modules are installed, plug in the power adapter and switch on the case. Carefully test each module to ensure it is working correctly.

More Information

Eurorack Specs

2 rows of 48hp for a total of 96hp

9 Sliding Nuts per rail

Includes 40 Black (Size 4-40 1/4") Module Mounting Screws

External Height: 9.5" (241mm)

External Depth: 9.5" (241mm)

External Width: 10.9" (276mm)

Top Row Internal Depth: 2.5" (65mm)

Bottom Row Internal Depth: 1.9" (49mm)

Empty Weight: 5.3 lbs. (2.5kg)

Warranty

For a period of one year after the date of original purchase, the Research Console manufactured by Pittsburgh Modular Synthesizers LLC, is warranted to function properly and be free of defects in materials and workmanship. Should a factory installed hardware fail during the warranty period, contact Pittsburgh Modular Synthesizers LLC. We will repair it (or at our option, replace it) at no charge, and pay the cost of shipping it back to you. This warranty is void if in our opinion the Research Console has been damaged by accident, mishandled, altered, improperly serviced, or repaired by the customer where such treatment has affected its performance or reliability. This includes but is not limited to damage related to incorrectly attaching power ribbon cables. In the event of such misuse/abuse by the customer, costs for repairs plus two-way shipping costs will be borne by the customer. Products found defective should be returned to the factory carefully packed, as the customer will be responsible for freight damage. Incidental or consequential damages or costs incurred as a result of product malfunction are not the responsibility of Pittsburgh Modular Synthesizers LLC.

Service and Contact Information

Please contact us for service or other information related to the Research Console or any other Pittsburgh Modular product.

www.pittsburghmodular.com/contact



Pittsburgh Modular Synthesizers