Pittsburgh Modular
Cell[48] Desktop Case & Power Supply
Manual and Setup Guide

Important Instructions – PLEASE READ

CAUTION!

Read Instructions:
Please read the Cell[48] Desktop Case & Power Supply manual completely before use and retain for future reference.

IMPORTANT Ribbon Cable Power Information:
The Cell[48] Desktop Case & Power Supply uses standard 10 and 16 pin Eurorack ribbon power cables to connect modules to the internal bipolar +12v/-12v DC power supply. 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 supply and the -12v pins on the module. **Failure to match up the pins correctly can result in damage to one or all the modules connected to the power supply.** On the power board, the -12v pins are clearly labeled. On the individual modules, the positive and negative sides of the pin connectors are usually labeled next to the power header on either the top or bottom of the PCB.

Do **NOT** remove individual modules from the case while the power adapter is plugged in.

Do **NOT** unplug ribbon cables from the case or individual modules while the power adapter is plugged in.

Table of Contents

Package Contents

Cell[48] Case & Power Supply Package Contents:

1 - Cell[48] Steel Frame
1 – Pittsburgh Modular Power Supply
1 – External Power Adapter
20 - Panel Screws
1 - Custom Power Ribbon Cable
2 - 48hp Sliding Nut Rails
18 - Mounting Nuts
4 - Rubber Feet
1 – Manual and Setup Guide

Case and Power Specifications

Case Specifications

Heavy Duty 16 Gauge Steel Frame
Vector Rails Width: 242mm
Sliding Nut Size: #4-40
Panel Screw Size: #4-40

External Case Dimensions: 242mm x 134mm x 57mm
Internal Case Dimensions: 242mm x 130mm x 54.5mm

Space Available for Modules:
        Width: 48hp (242mm)
        Depth: 53mm
        Depth (above power supply): 36mm
        Sliding Nuts: 9 (per rail)

Power Supply Specifications

Power Supply Output : +12v 450mA / -12v 450mA

Custom Power Ribbon Cable Includes:
8 - Standard Eurorack 10pin Power Headers
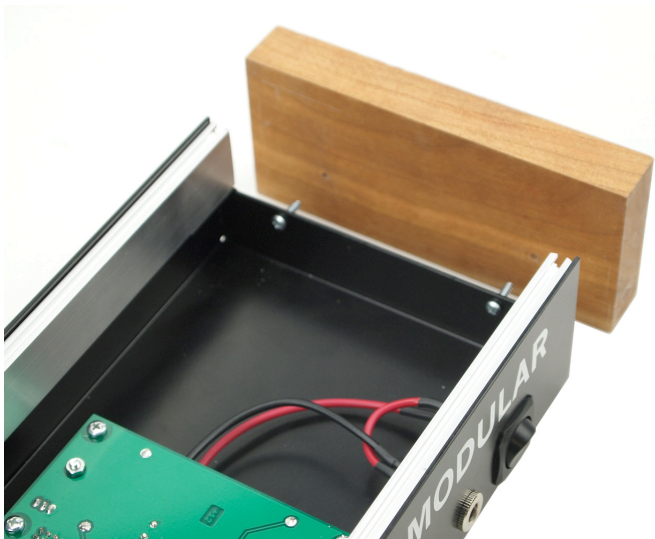4 - Standard Eurorack 16pin Power Headers

RED STRIPE MARKS NEGATIVE VOLTAGE (-12v)!

Power Switch Installed on Rear of Case
External Power Connection Installed on Rear of Case

External Power Adapter:
Connection: 2.1mm Barrel Type
Output: 12V AC / 1A

Attaching Single Row Wood Sides

Warning: Before attaching the wood sides, all modules must be removed from the steel frame.

Attaching Single Row Wood Sides

1. Line up the holes on one side of the steel frame with the holes on the wood side.
2. Use the included screws to attach the wood side to the steel frame.
3. Repeat for the 2nd side.

Attaching Double Row Wood Sides

Cases should be attached to double row sides so the back of both cases face each other. This keeps the power buttons close to each other and hides the power adapter cables.

Attaching Double Row Wood Sides

1. Lay wood down on smooth surface with holes facing up.
2. Line up the holes of the bottom frame so the Pittsburgh Modular Logo faces front.
3. Use the included screws to attach the wood side to the steel frame.
4. Line up the holes of the top frame so the Pittsburgh Modular Logo faces the top.
5. Use the included screws to attach the wood side to the steel frame.
6. Repeat for the 2nd wood side.

Adding New Modules

The Cell[48] Case is designed to hold up to 9 modules. Adding new modules to the case is a simple process. Please follow the instructions below to ensure that new modules are installed safely and correctly.

Modules in double row systems can be oriented to allow the synthesizer to stand up taller or lay down flatter depending on which direction the modules are installed. Experiment with system layout by resting a few modules in the case before installation.

1. Switch the power off and unplug the power adapter from the back of the case.
2. If the new module has a ribbon cable attached, note the orientation of the stripe and remove the cable and set it aside. Taking a picture before removing the cable is an easy way to keep track of the proper cable orientation. The stripe on a ribbon cable marks the NEGATIVE VOLTAGE and must be attached to the -12v of the power supply.
3. Modules can use either a 10pin or 16pin power header. The custom power ribbon cable included with the case has both. Choose the correct size power header from the power ribbon cable and attach it to the module. The red stripe on the ribbon cable marks -12v. This 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 the modules connected to the power supply.
4. Use a small tool to line up the needed sliding nuts close to where the module will be mounted.
5. 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.
6. Repeat steps 2-5 for each new module.
7. 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 as expected.

Removing Modules

Removing modules from the Cell[48] Case is easy however, please follow the instructions below to ensure that modules are removed safely and correctly.

1. Switch the power off and unplug the power adapter from the back of the case.
2. Unscrew the panel screws of the module to be removed.
3. Carefully lift the module from the case until the power header is accessible.
4. Note the orientation of the stripe on the ribbon cable then remove the power header. Taking a picture before removing the cable is an easy way to keep track of the proper cable orientation. The stripe on a ribbon cable marks the NEGATIVE VOLTAGE and must be attached to the -12v of the power supply.
5. Repeat steps 2-4 for each module to be removed.

Warranty Information

1 Year Limited Warranty:

For a period of one year after the date of original purchase, the case and power supply and all factory installed parts manufactured by Pittsburgh Modular Synthesizers LLC. are warranted to function properly and be free of defects in materials and workmanship. Should the case and power supply 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 case and power supply 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. Case and power supplies 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 Information

Please contact us for service or other information.

info@pittsburghmodular.com

www.pittsburghmodular.com/contact/