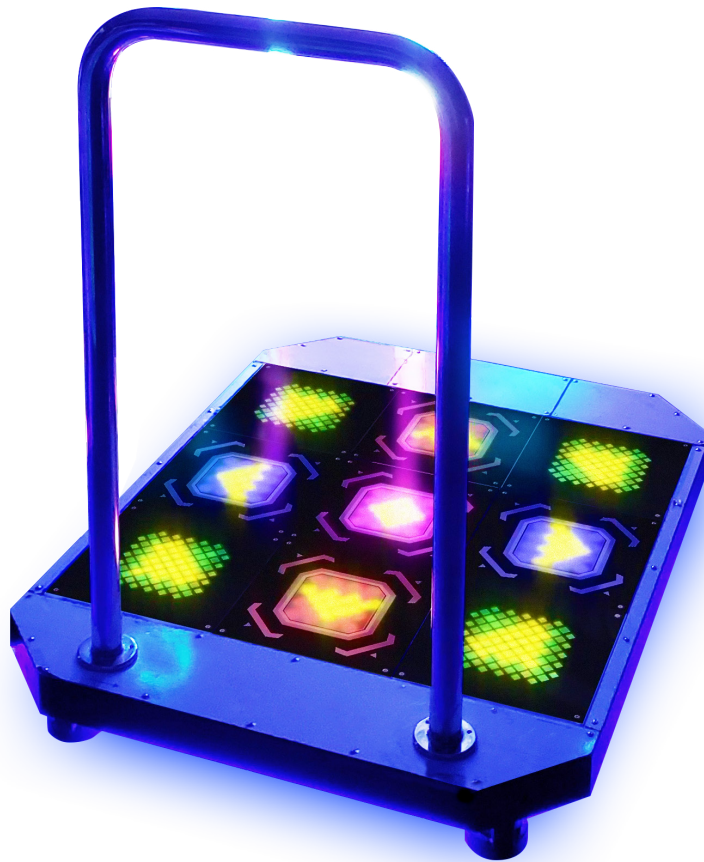


# STEP MANIAX

## STAGE MANUAL



**STEP**  
REVOLUTION

Rev 2 - 3/24/2021

# STEPMANIAX STAGE

## WELCOME

Thank you for purchasing a StepManiaX stage. Whether purchased as an all-in-one product with the StepManiaX software, or individually for customized use, we sincerely hope you enjoy your new stage – it was made for passionate users like you!

## USAGE

**If part of a complete StepManiaX installation, stages are pre-configured and fully ready to be used and be configured via the StepManiaX application. No additional software is needed.**

To use the StepManiaX stage with other software, connect the USB cable to the device of your choosing. Remember to also provide power to the stage via the AC Power Cable if not being used with the all-in-one unit. There is an additional power port on the front of the stage – this is not used unless connected to a dedicated cabinet.

The stage will appear as a standard game controller and works out of the box on Windows, Linux, and macOS-based computers. The configuration tool is currently available for Windows PCs to allow for additional customization with configuration being stored on the stage's internal memory.

If you are looking for minimal configuration, simply launch the software you wish to use the stage with and use the available key mappings to configure your software for the input panels. For “simulation” games, this is done usually through an options menu, under “Configure Key/Joy Mappings”. The default configuration of the stage has sensors installed in the Up, Down, Left, Right, and Center panels – these are the available buttons for whatever software you are attempting to use. If additional panel sensors are installed in the remaining panels, they will also be available for mapping, but first must be enabled using the SMX Configuration Tool.

## CARE

Your StepManiaX Stage shouldn't require scheduled maintenance, however it has been built for easy disassembly and care.

To clean the stage, simply use a mild soap and water solution with a soft cloth and wipe dry. Harsher materials may scratch the surface of either the metal or the directional panels. Standard glass cleaning solutions are also an acceptable alternative to clean the directional panels, but do **not** use an acetone-based solution, as this will cause damage to the surface.

As with any piece of hardware, be sure to immediately clean up excessive liquids if anything is spilled on the stage to prevent unintended wear and tear and ensure proper functionality.

Each individual panel can be opened by unscrewing the four screws located around the edge of the panel. When the stage is opened, be careful not to spill anything or damage the internal circuitry. Opening the panels should only be done when physically servicing the stage or installing additional hardware.

Help and documentation is also available online at [help.stepmaniax.com](http://help.stepmaniax.com).

## PURCHASER INDEMNIFICATION AGREEMENT

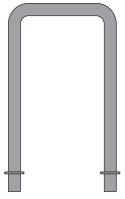
The StepManiaX Stage is an accessory to an interactive computer software game that encourages the user(s) to engage in strenuous and physically demanding activity, requiring repetitive impact on the feet, joints, hands, spine – the entire body of the user while engaged in the activity for which the StepManiaX Stage was designed.

Upon the purchase of the StepManiaX Stage or software, the purchaser acknowledges their awareness of these risks and hereby indemnifies Step Revolution from liability for injury or accident involving any Step Revolution product after it has left the company premises. Step Revolution advises that all persons consult their doctor before engaging any strenuous physical activity. Take caution and wear shoes when using your StepManiaX Stage, and exercise caution when handling or moving it.

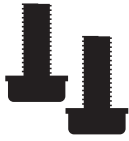
# STAGE ASSEMBLY

Your StepManiaX stage ships with the main stage already assembled and ready to use. Please follow these steps to attach and secure the bar.

## PARTS NEEDED



SMX Bar



Large Bolts  
(M24 80mm)



Washers



Lock Washers

## TOOLS NEEDED

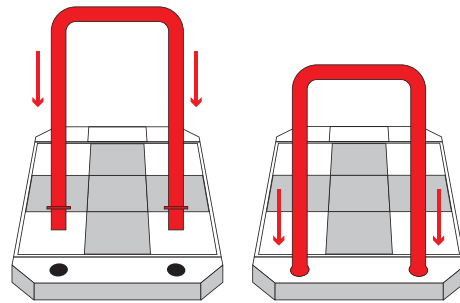


Adjustable Wrench  
(2.5" reach, minimum 1.5" Jaw)



Allen Wrench  
(included)

1. Insert the bar into the stage.
2. Place a lock washer and then a standard washer onto each large black bolt. Securely tighten both bolts into the bar from underneath the stage using a wrench.

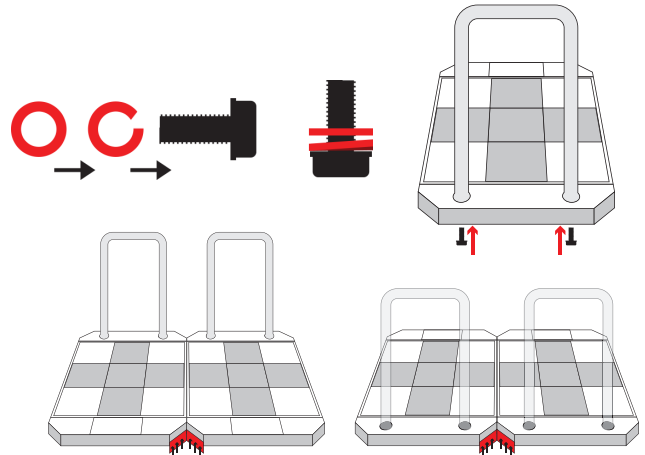


3. If two stages were purchased, it is possible to connect them together by using two V Brackets.

One bracket is included with each stage.

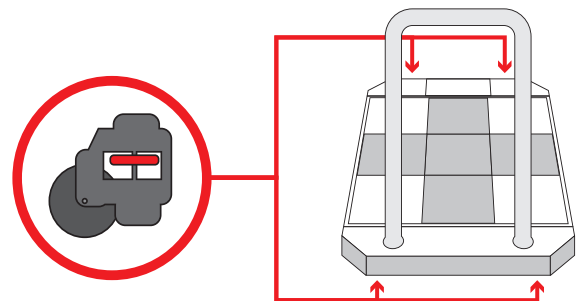
Attach a bracket to both the front and rear of the stages using a lock washer, washer, and M6 screw for each of the 6 screw holes on each bracket.

Attach the screws loosely at first until all are installed, then tighten to secure.



4. Secure the stage from movement by spinning the red tightener on the stage wheels counter-clockwise to raise the wheels off of the ground.

Use the wing-screw to lock or unlock the red tightener wheel.



## ASSEMBLY COMPLETE

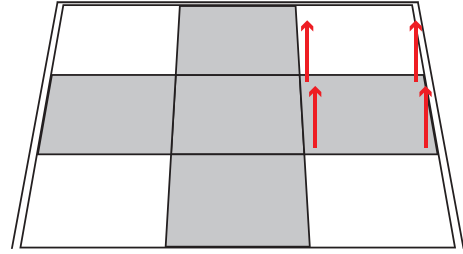
Attach the USB Cable and the AC Power Cable to the front of the stage. The stage is ready for use with any joystick-compatible software. Optionally, install the included cover boxes to prevent damage to the cables.

An additional metal plate is included if a user wishes to replace an acrylic panel for specific software. This plate is **not** for use with the StepManiaX application, and does not need to be installed unless running custom software. To use this panel, remove the 4 screws holding a panel in place and install the metal plate with 4 of the included flush-mount screws.

# MAINTENANCE

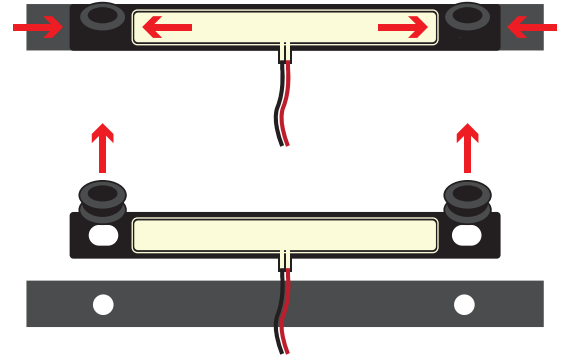
## SENSOR REPLACEMENT

1. Remove the acrylic panel by removing the four screws holding the panel in place.

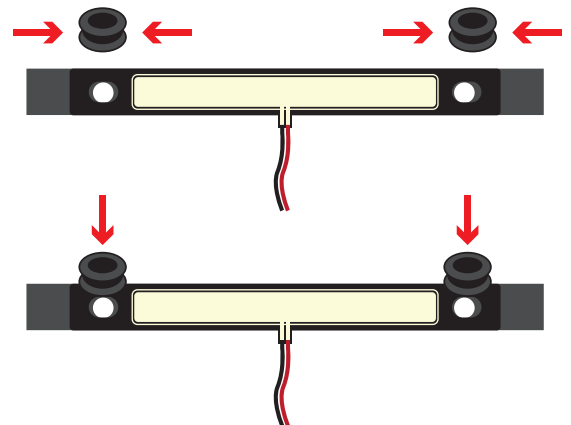


2. Unplug the existing sensor from the panel PCB.

Remove the two rubber grommets holding the existing sensor in place by squeezing in the sides and lifting upwards to release from the frame.



3. Remove the sensor completely and place a new sensor in the same position as the previous one.

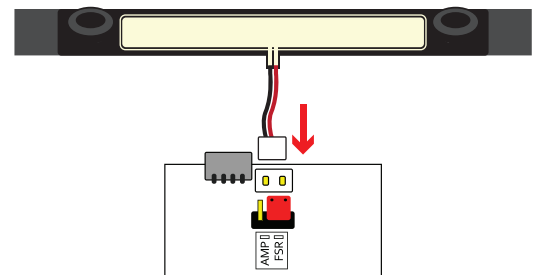


4. Secure the new sensor by taking a rubber grommet, squeezing it from the sides, and inserting it into the frame through the holes on one end of the sensor until it pops into position.

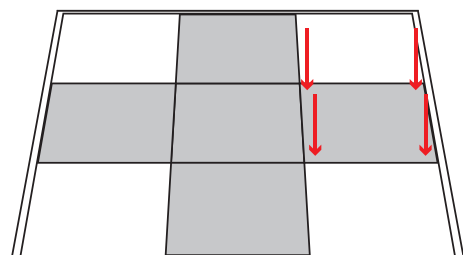
Repeat for the remaining hole.

5. Plug the new sensor into the corresponding plug on the PCB.

**NOTE: VERIFY THE JUMPER IS SET TO THE FSR POSITION TO ENSURE PROPER FUNCTIONALITY.**



6. Reinstall the acrylic panel and secure it to the frame by attaching the four corner screws.

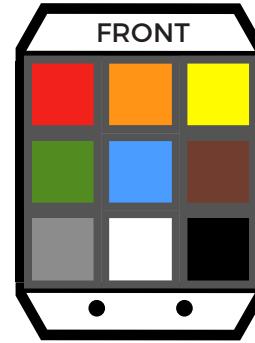


# WIRING AND DIP SETTINGS

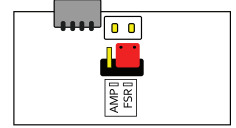
If your stage requires maintenance, these are the specific settings for each panel. Make sure that each panel has both the proper colored wire running from the control unit to each panel, along with the specified DIP switch settings.

Diagnostic modes listed operate on a per-panel basis.  
**Panels will not function normally when in diagnostic modes.**

Verify the small jumper located near each panel PCB's sensor plugs match the appropriate sensor types installed.  
**By default, this should be set to FSR.**



CONNECTOR PCB



DIP SWITCH SETTING	PANEL POSITION	WIRE COLOR
OFF OFF OFF OFF UP-LEFT  RED		
ON OFF OFF OFF UP  ORANGE		
OFF ON OFF OFF UP-RIGHT  YELLOW		
ON ON OFF OFF LEFT  GREEN		
OFF OFF ON OFF CENTER  BLUE		
ON OFF ON OFF RIGHT  BROWN		
OFF ON ON OFF DOWN-LEFT  GRAY		
ON ON ON OFF DOWN  WHITE		
OFF OFF OFF ON DOWN-RIGHT  BLACK		
ON OFF ON ON <b>LED CHECK</b> Lights all LEDs dim white. This allows checking that all LEDs are functioning.		
OFF ON ON ON <b>SENSOR PRESSURE TEST</b> Illuminates the panel based on active sensors. Yellow, Green, Blue, and Red represent each individual sensor detecting pressure.		

# CONFIGURATION TOOL

The configuration tool is a standalone application for Windows PCs that lets you customize your StepManiaX Stage.

**This tool is not required when using the stage with the main StepManiaX Application.**

The latest version can be downloaded from our website at <https://stepmaniax.com/tool>.

We're always improving our software, so the appearance and functionality might differ from what you see here. You can find the latest documentation on our website above.

The stage saves configuration settings internally - once changes are made using the tool, they'll be saved to the stage and be active regardless of what device it is used with.

## MAIN TAB

### Panel Sensitivity

Choose between three presets for sensitivity. These provide quick access to recommended defaults.

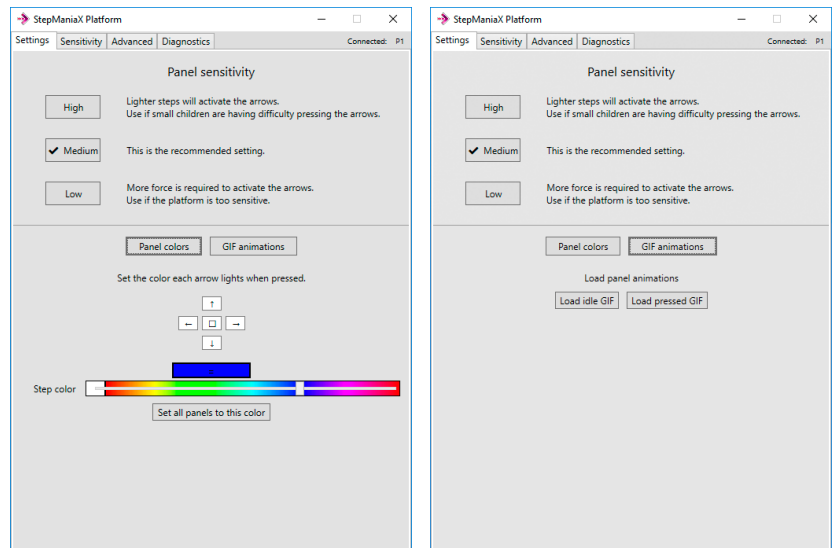
### Panel Colors

When selected, users are able to define a solid color for a panel to show when pressed.

Click on a panel to select it, then set the color using the slider. Copy colors between panels by clicking and dragging a panel to another one. The large rectangle on the bottom is used for the underglow color.

### GIF Animation

When selected, use a GIF uploaded onto the stage for animated effects for both idle and pressed states. Examples and guidelines for these will be documented at [help.stepmaniax.com](http://help.stepmaniax.com).

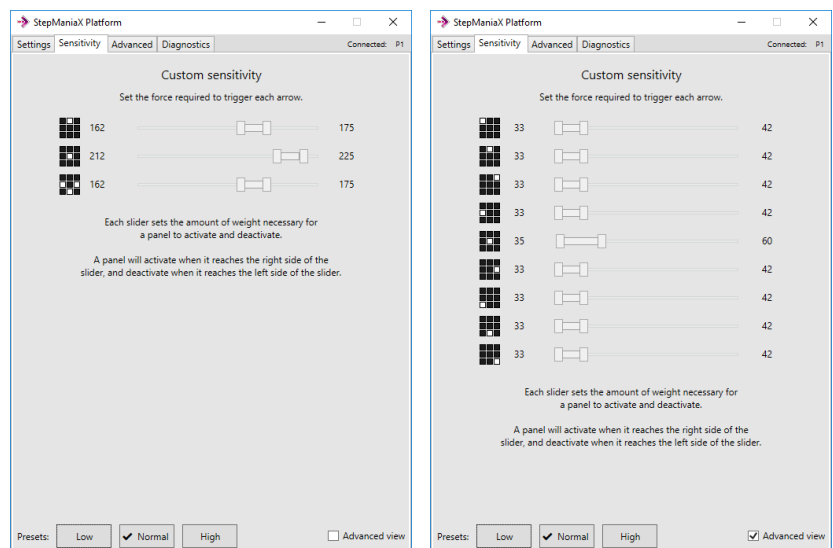


## SENSITIVITY TAB

If more control over panel sensitivity is desired, users are able to manually define values for when the panel detects a press and when to release.

Panels are activated when pressure readings exceed the right value, and deactivate when dropping below the left value.

Using the advanced view, it is possible to configure each panel's sensitivity values separately or create groups of sensors with specific settings



# CONFIGURATION TOOL

## ADVANCED TAB

### Active Panels

Enable or disables which panels are able to provide input. Keep panels that do not have sensors installed marked as disabled to prevent stray inputs from firing, or disable ones not in use by the current application to prevent accidental inputs. Green indicates that the panel is on.

### Options

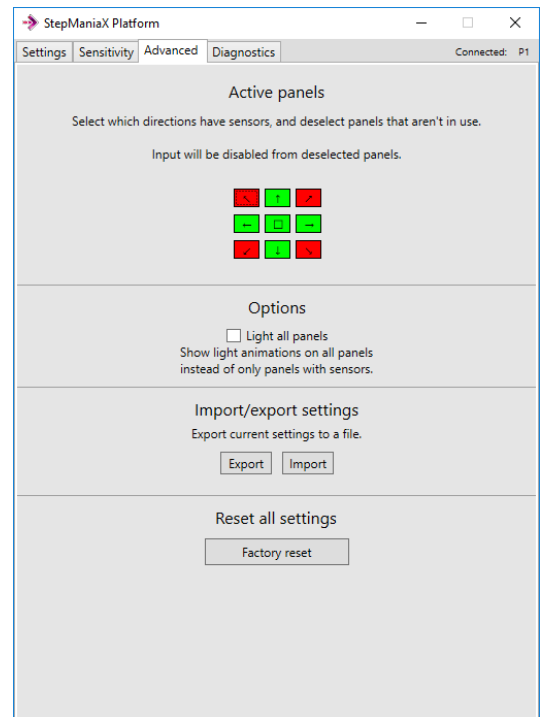
Light all panels makes all 9 panels on the stage illuminate regardless of sensor installation. If a GIF animation is used, the idle animation will continuously play on non-input panels.

### Input/Export Settings

Save a local copy of the current stage settings, such as sensitivity. This can be used to swap between different 'profiles' by saving and restoring settings.

### Reset All Settings

Sets all stage settings to their initial, default values.



## DIAGNOSTICS TAB

### Panel Display

Clicking on a panel on the top display will switch all diagnostic information below to that specific panel. Errors or issues with specific panels will display an "!" icon.

### Input Meters

The lower left display shows the current reading from each individual sensor in the selected panel. When pressure is applied, the meter should rise and indicate the current read value below. If you do not see any data, a sensor may be disconnected or is malfunctioning.

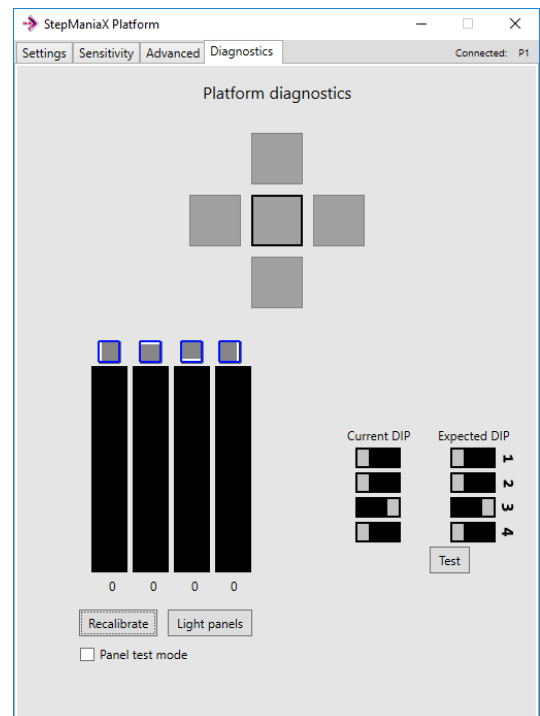
### DIP Display

The lower right display shows the current and expected DIP settings for the selected panel. Verify that these match if you are experiencing panels being out of place.

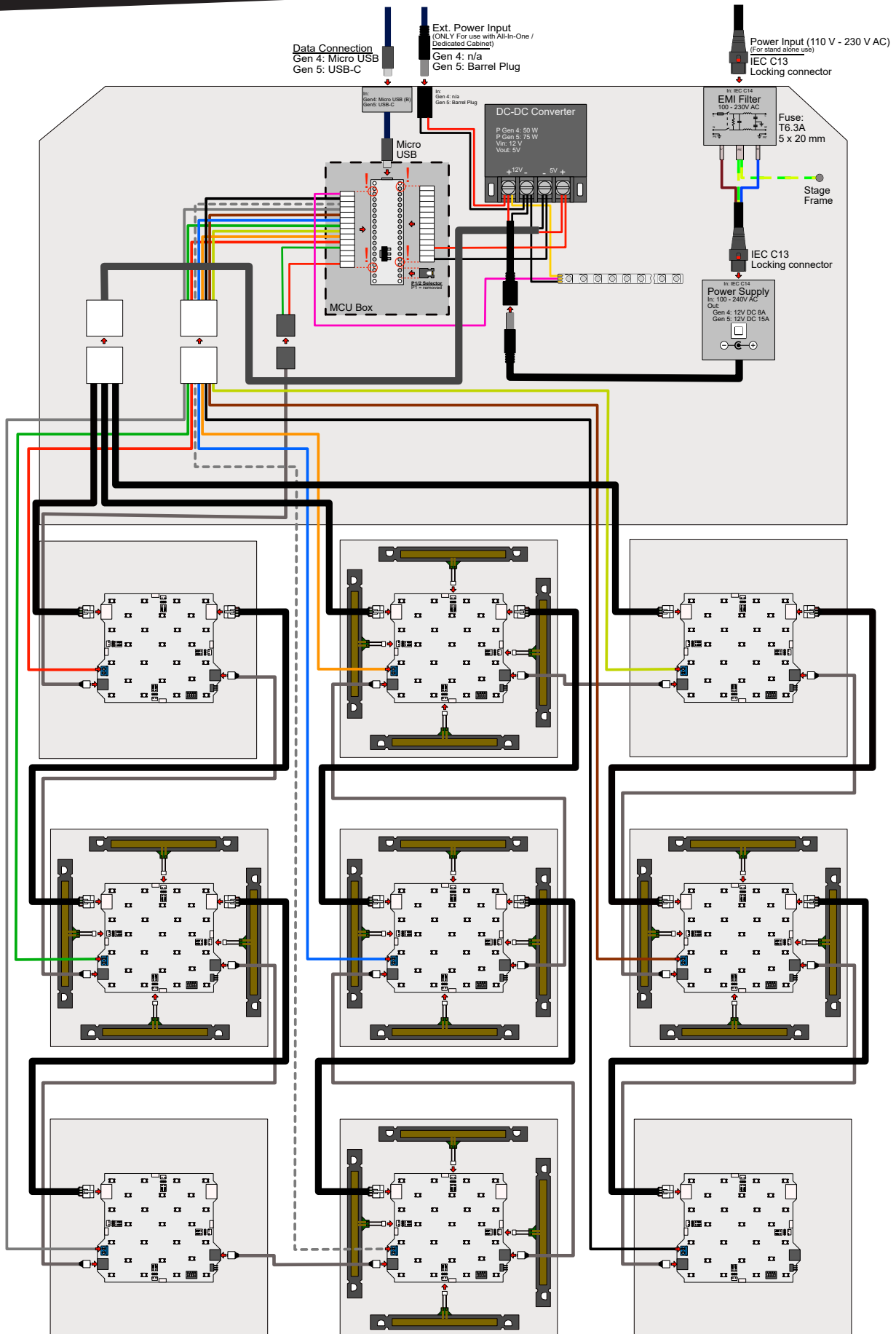
### Recalibrate and Light Panels

The Recalibrate buttons allow for instant recalibration of the stage sensors. The stage automatically recalibrates when not in use, but pressing this will trigger an immediate recalibration/zeroing of the sensor values.

The Light Panels button will illuminate all LEDs in the stage, allowing for quick verification that all are working.

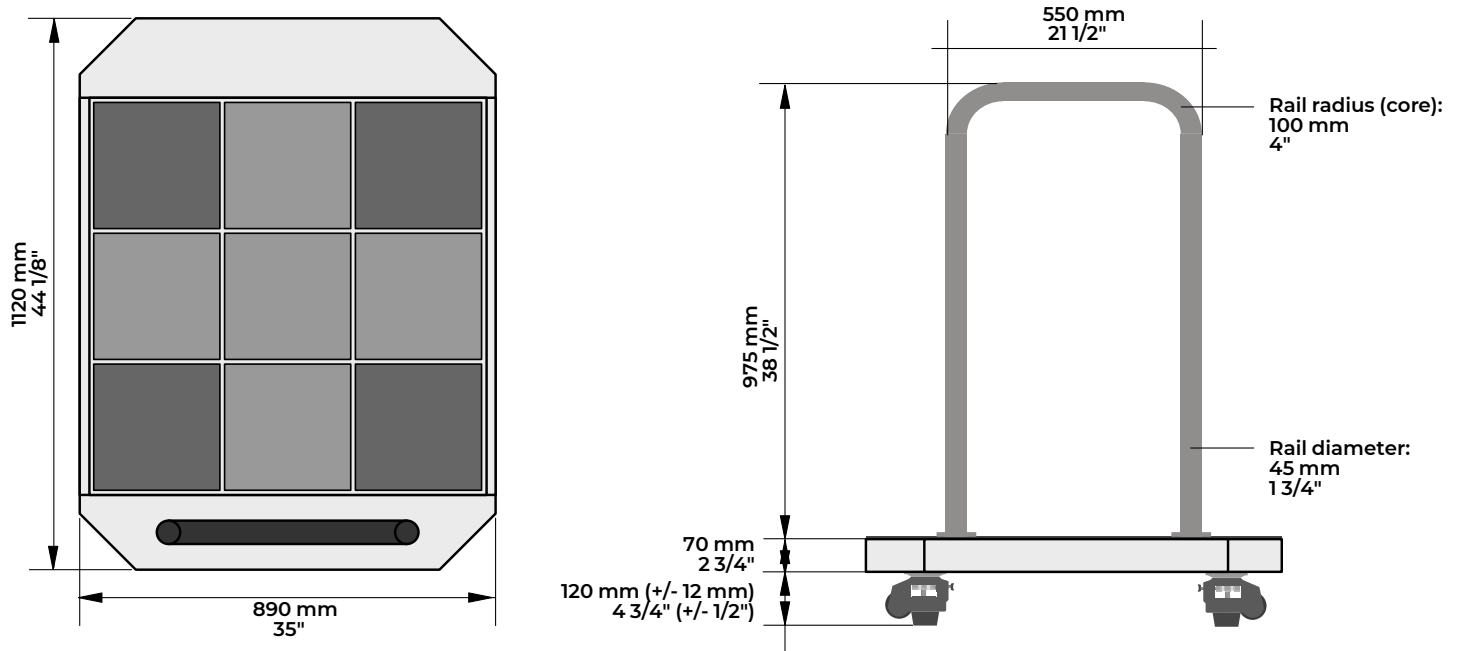


# WIRING DIAGRAM





# MEASUREMENTS



**Shipping dimensions** 125 cm x 101.5 cm x 30.5 cm / 49" x 40" x 12"  
**Stage (1 pcs, wooden crate):** 115.5 Kg / 255 lbs