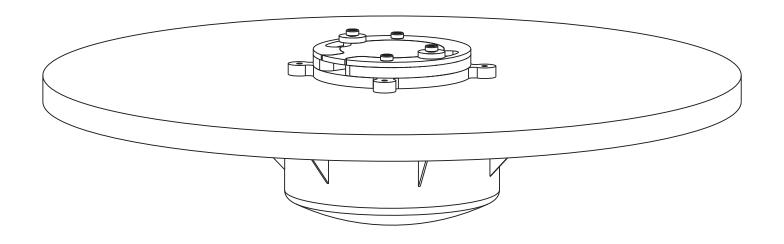
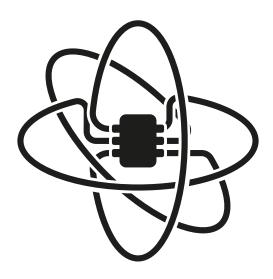
HOW TO BUILD BALANCE BOARD







This manual refers to the **RGB Lamp Demonstrator** project and is part of the **Movuino** documentation.

Project presentation:

http://www.movuino.com/index.php/portfolio/rgb-lamp/

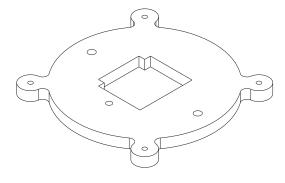


All files of the project can be found on:

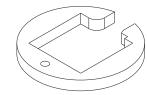
www.github.com/hssnadr/RGB-Lamp-Demonstrator



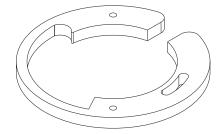
TO LASER CUT



Al x1 Base



A2 x1 Movuino case



A3 x1 Spring crown

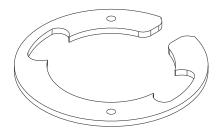


A4 x1 Movuino case

• 🗀 BalanceBoard/01_MakingRessources/BalanceBoard_3mm.svg — — **3mm thick** 📑



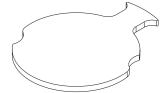




B1 x1 Spring case

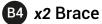






B2 x1 Cap

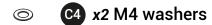




TO BUY









2 x2 M4 8mm CHC screw

C4 x2 M4 locknuts

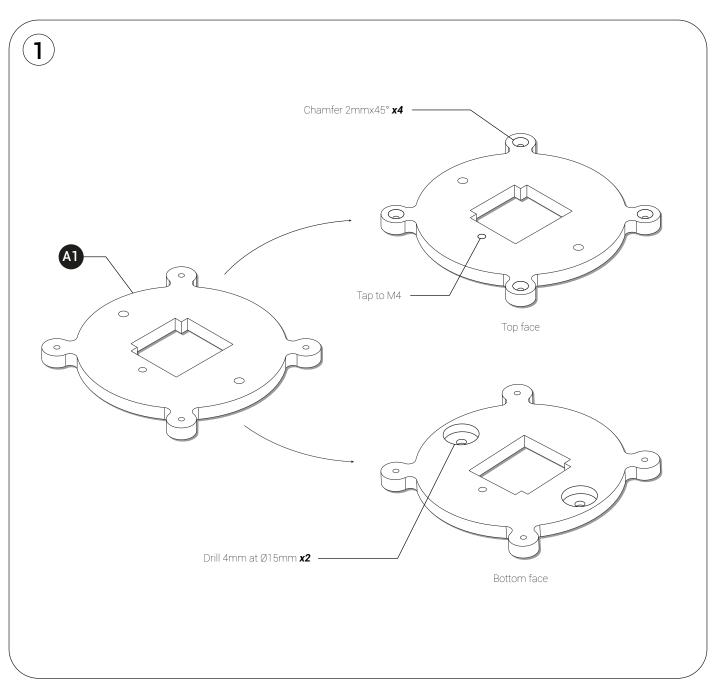


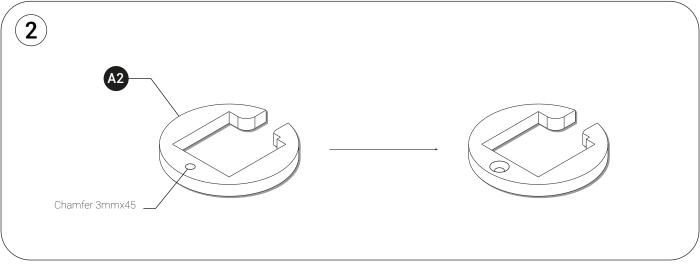
C3 x2 M4 16mm CHC screw

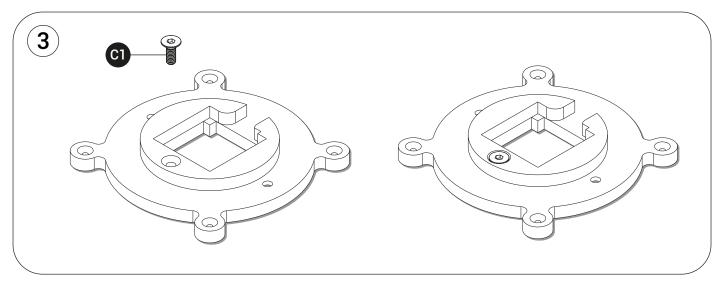


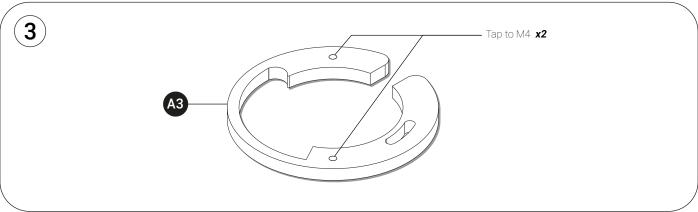
x9 M3 5mm self-tapping screws

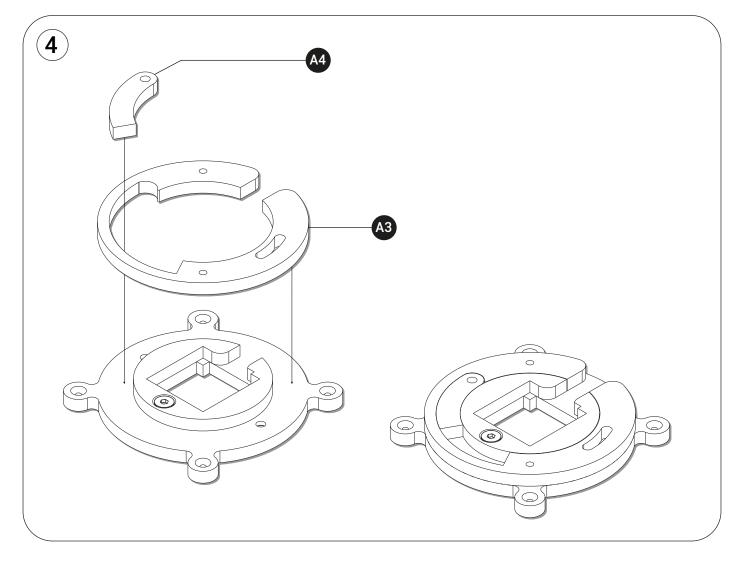
ASSEMBLY

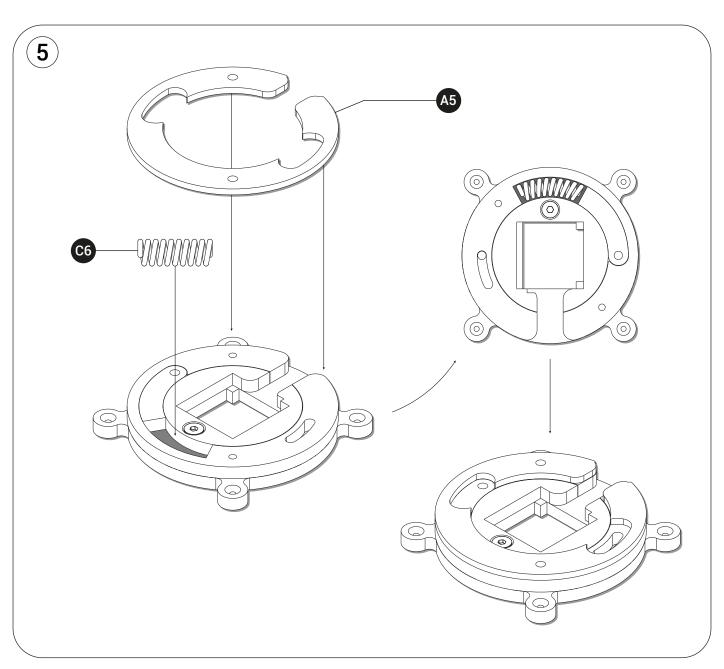


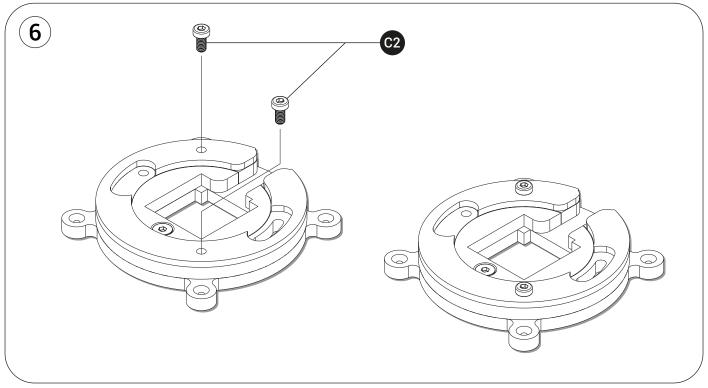


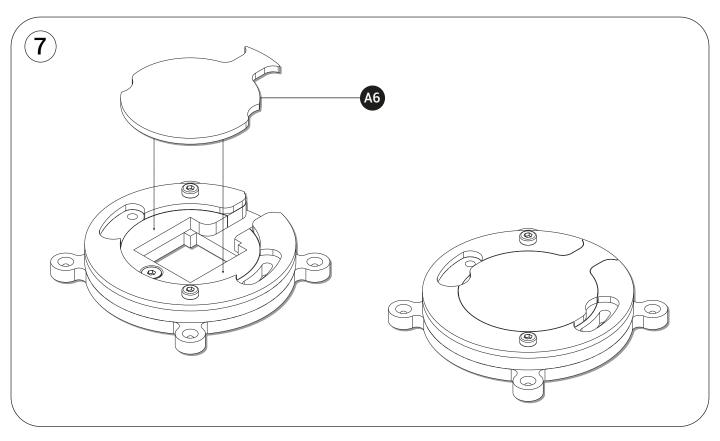


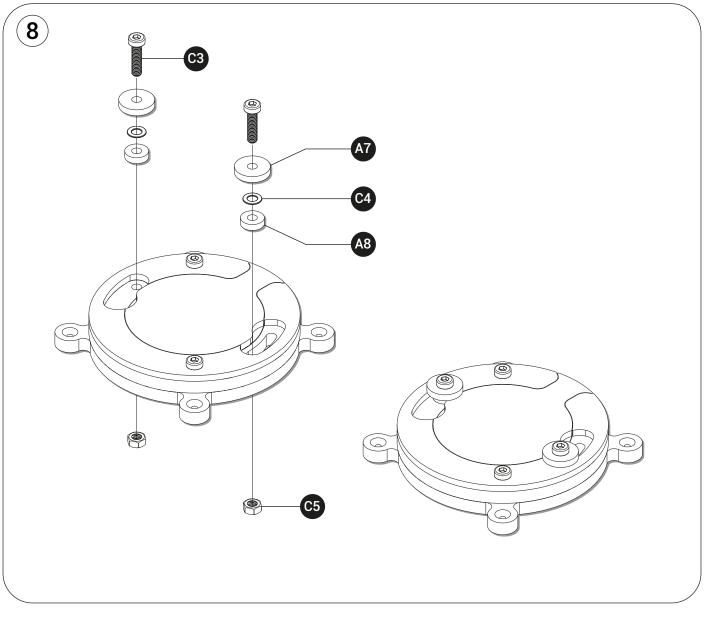


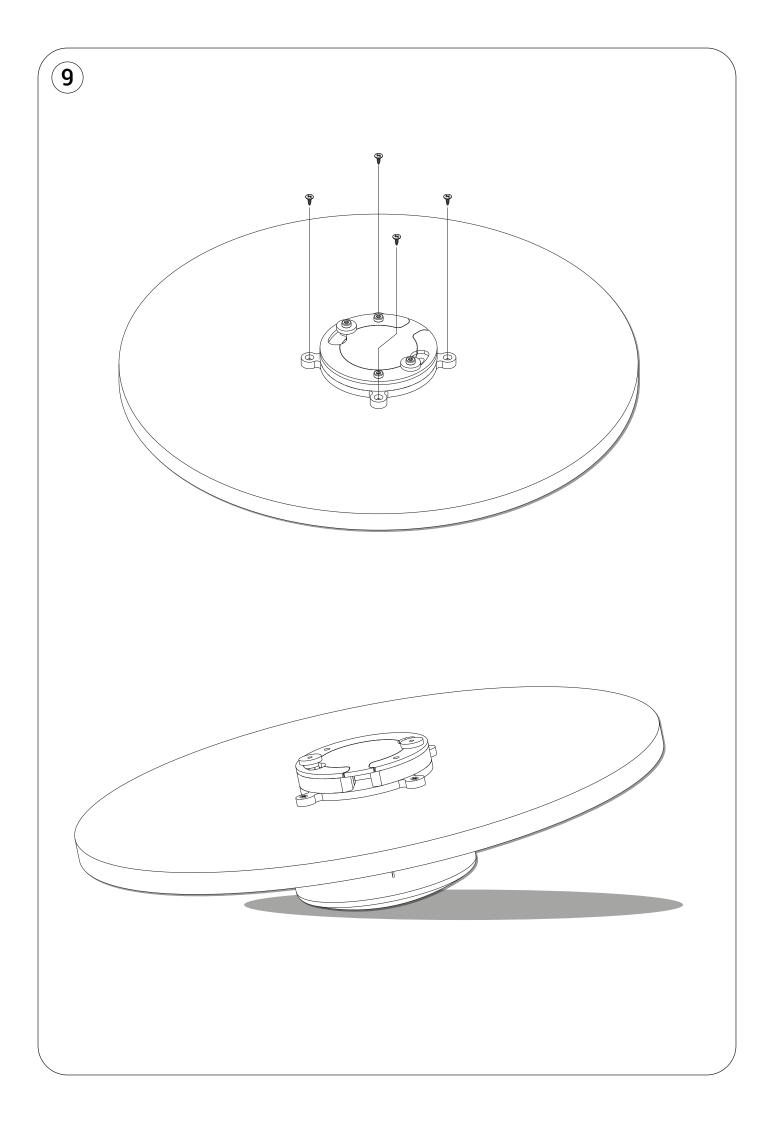












SET-UP

1 Download and install:

Movuina on www.movuino.com

PureData on www.puredata.info



2 Run the BalanceBoard_Application.pd application with PureData

You'll need to install the **Adafruit Neopixel** library: **Sketch/Include a library/Manage libraries**Search for «Adafruit Neopixel» in the search tab and install the latest version

BalanceBoard/02_APureData/BalanceBoard_Application.pd





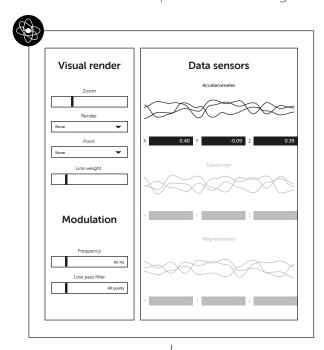
Launch Movuina and set-up by following the Quick Start tutorial

Quick Start

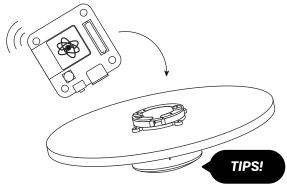
www.movuino.com/index.php/quick-start



Once its done, you can directly receive the acceleration data sensed by the Movuino (or Streamo) into the PureData patch. There the data are processeced to generate sound modulations.



Acceleration data can be smoothed with the **Low pass filter** parameter



OSC message (127.0.0.1 port 3000) /movuino or /streamo

Use the spring to open and lock the case

