AUDIORAYS®

# DON'T SKIP A BEAT

AUDIO VISUALIZER AR-384X

audiorays.com

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# INTRODUCTION

AudioRays is an independent design studio based in Montréal, Canada. We design and build premium, handcrafted audio-reactive LED visualizers.

The Audio Visualizer AR-384X is our flagship model — a handcrafted 384-LED real-time spectrum visualizer.

It reacts instantly to music using advanced 24-band FFT processing, features over 20 animation modes, includes removable stainless steel rods to display vinyl or album art, and is fully controlled through tactile knobs, with regular firmware updates that continue to improve the device over time.

# ABOUT AR-384X

**A truly premium handcrafted device.**

Every unit is:
- Designed in-house
- 3D printed and assembled by hand
- Built with a custom PCB
- Individually tested before shipping
- Powered by firmware we develop internally
- Updatable firmware
- 3 Years Warranty

We are not mass-produced.

Each device is carefully assembled and calibrated before leaving our Montréal workshop.

We ship worldwide.

# 4 COLORS AVAILABLE



Midnight



Darkroast



Sandstone



Frost

# Designer Edition *By Audiorays*

Choose your own colors, craft your own look, and build a one-of-a-kind piece that matches your setup perfectly

3D Customizer Tool available at
**https://audiorays.com/design**

# MAIN FEATURES







### 20+ Audio Reactive Animations

Experience music visually with real-time audio reactive lighting. The AR-384X analyzes sound instantly, transforming bass, mids, and highs into dynamic LED animations across 20+ unique visual modes.

### Digital Clock & Custom Scrolling Text

Beyond music visualization, the AR-384X features a digital clock display and customizable scrolling text. An option is available to displays the time automatically when no audio is detected.

### Vinyl, CD, Phone or Tablet Stand

Two removable stainless steel rods transform the AR-384X into a functional display stand. Easily showcase vinyl records, CD cases, phones, or tablets while enjoying immersive reactive lighting.

# CONTROLS & INTERACTION

## The unit features 3 physical control knobs

- Mode / Menu Selection
- Amplitude / Sensitivity
- Colors

The mode selection knob is also a push-button. Pressing it gives access to the internal menu system where users can:

- Adjust Screen Brightness
- Adjust Bar Width & Height
- Adjust Scroll Speed
- Adjust Animation Intervals
- Adjust Mic Frequency Balance
- Access Clock Settings
- Edit Scrolling Text
- Change Language (EN, FR, SP, DE, PT)

And more...

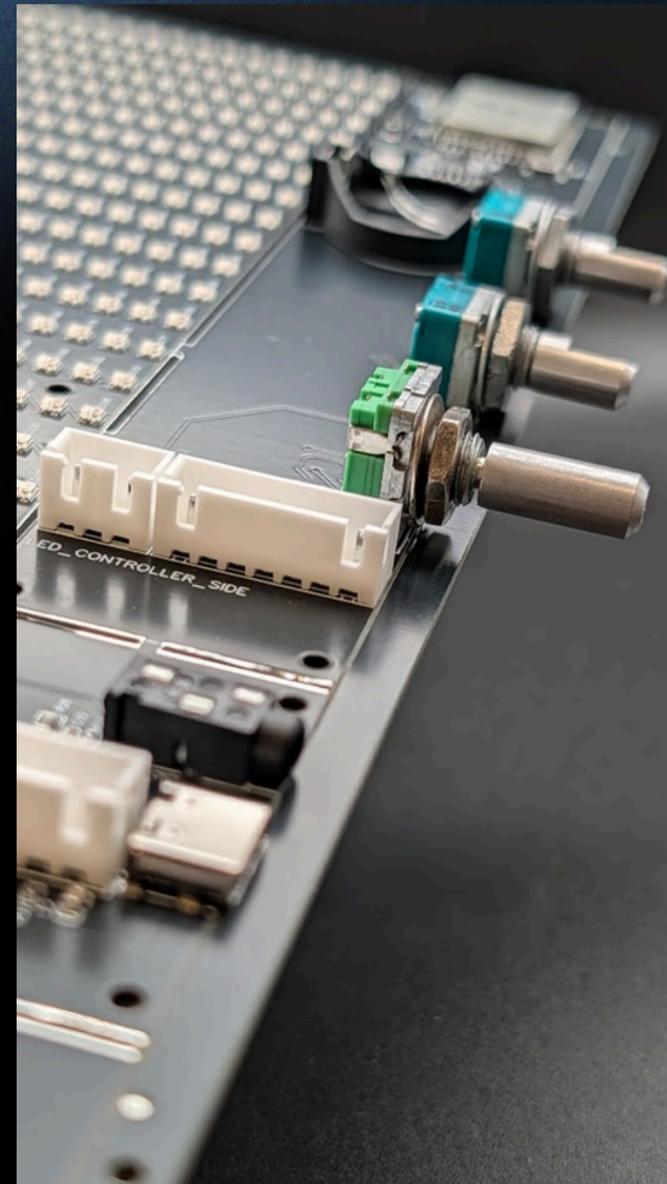Everything is controlled physically.
No app/internet required.

# HARDWARE SPECIFICATIONS

- 384 individually addressable RGB LEDs
- Thick front diffusion layer
- High-density LED matrix
- Balanced weight distribution
- Custom ESP32-S3 powered PCB
- Built-in high-sensitivity microphone
- Line-in (aux) input support
- USB-C powered
- Custom 3D-printed enclosure
- Internal real-time clock

What's in the box:
- Audio Visualizer AR-384X Unit
- 2x Removable Stainless Steel Rods
- 6ft USB-C to USB-A Cable
- 6ft RCA to 3.5mm Audio Cable
- 2x RCA Audio Splitter

- Dimension: 10" X 4.25" X 4"
- Weight: 2lbs

# FIRMWARE & UPDATES

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Firmware is developed entirely in-house.

We continuously improve:

- Animation performance
- FFT tuning
- Audio responsiveness
- Stability
- New visual modes

Users can update the firmware by visiting our downloads page and use our web-based updater.

Available at: https://audiorays.com/downloads/

A full changelog is publicly available, so users can see exactly what improvements and features are added over time. We actively maintain and evolve the product.

# AUDIORAYS®

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