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Klanata CAI-256

Klanata RGB LED Music Spectrum Display (Model CAI-256) - User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. Introduction

Thank you for choosing the Klanata RGB LED Music Spectrum Display, Model CAI-256. This device is designed to provide dynamic visual representations of audio frequencies, enhancing your environment with vibrant light effects. It features 384 RGB LEDs, sound-activated modes, and an integrated electronic clock with alarm functions. Please read this manual carefully to ensure proper setup and operation.

2. Package Contents

- 1 x RGB LED Music Spectrum Display (Model CAI-256)
- 1 x USB Power Cable
- 2 x Accessories (specific type not detailed, typically stands or mounting aids)

3. Product Features

- **Advanced LED Configuration:** Equipped with 384 RGB LEDs arranged in 16 columns and 24 rows, offering rich visual effects.
- **Dynamic Display Modes:** Features 12 distinct display modes and 7 color modes, combinable to create 84 integrated dynamic visual effects.
- **Dual Operating Modes:** Includes a built-in voice sensor for sound-activated operation. An auxiliary audio input cable (if connected) automatically overrides voice control for direct line input.
- **Integrated Clock Function:** Functions as a digital electronic clock during periods of no audio signal, offering 4 time display styles and 3 independent alarm clock settings with customizable colors.
- **Adjustable Brightness:** Provides 8 brightness levels to suit various lighting environments.
- **Breathing Display Mode:** Includes 1 dedicated breathing light effect mode.
- **USB Powered:** Operates on 5V 1A USB power, compatible with standard mobile phone chargers or computer USB ports.

4. Setup

1. **Unpacking:** Carefully remove the LED Music Spectrum Display and all accessories from the packaging.
2. **Placement:** Place the device on a stable, flat surface. Ensure adequate ventilation around the unit.
3. **Power Connection:** Connect the provided USB power cable to the device's USB port. Plug the other end into a 5V 1A USB power source (e.g., a phone charger, computer USB port, or power bank). The device will power on automatically.
4. **Audio Input (Optional):** If using direct audio input, connect an auxiliary audio cable (not included) from your audio source to the device's audio input port. This will automatically disable the built-in voice sensor.

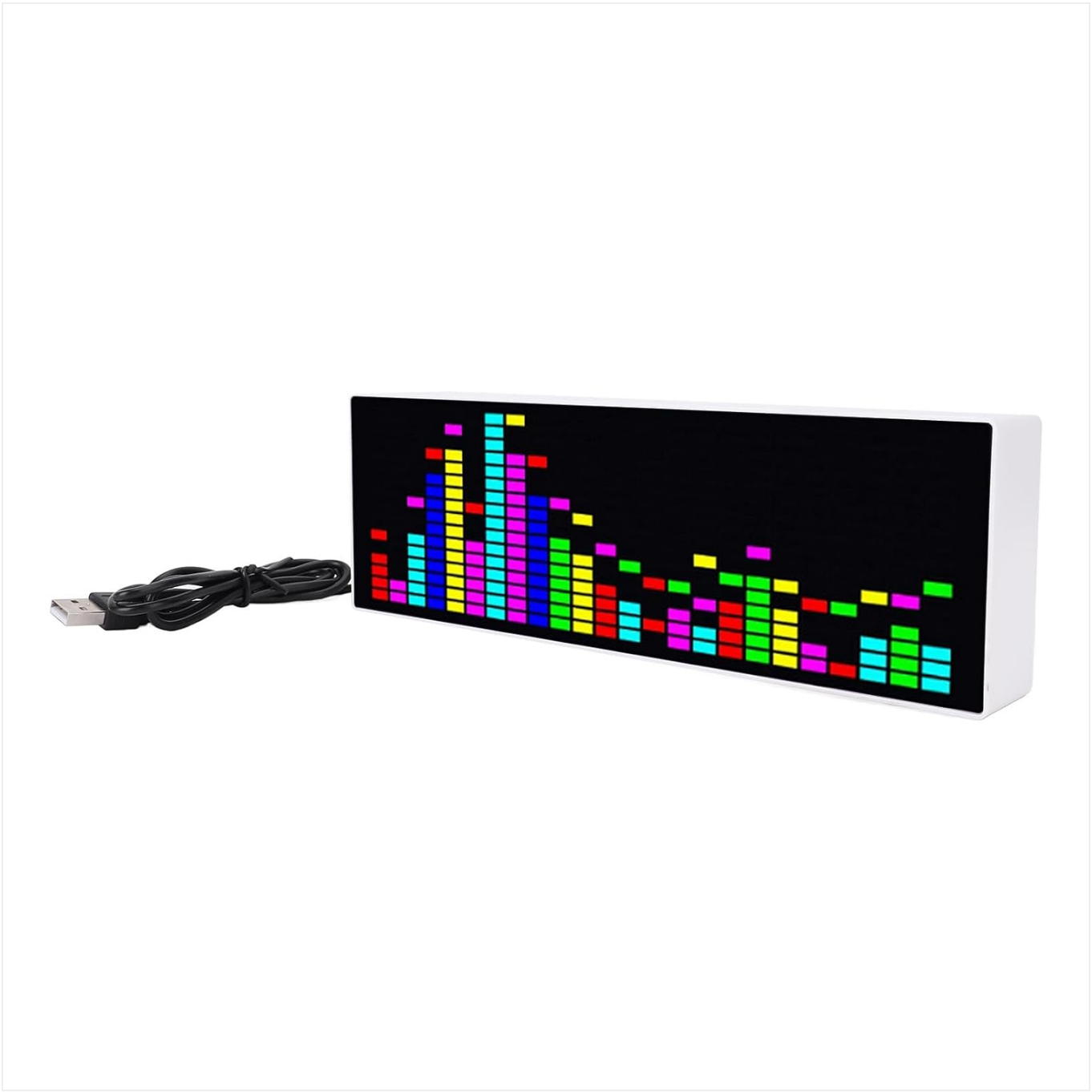


Image 1: The RGB LED Music Spectrum Display connected via USB cable, showing a dynamic spectrum visualization.

5. Operating Instructions

The device typically features control buttons (often labeled MODE, SET, UP/DOWN) on its casing for navigation. Refer to the physical device for exact button locations.

5.1. Power On/Off

- The device powers on automatically when connected to a USB power source.
- To power off, disconnect the USB power cable.

5.2. Switching Display Modes

- Press the **MODE** button (or equivalent) to cycle through the 12 available display modes.
- Press the **COLOR** button (or equivalent) to cycle through the 7 available color modes.
- The combination of display and color modes creates 84 unique visual effects.

5.3. Adjusting Brightness

- Press the **BRIGHTNESS** button (or equivalent, often an UP/DOWN button) to cycle through the 8 brightness levels.

5.4. Time Display and Alarm Function

- When no audio signal is detected, the device automatically switches to clock mode.
- Press the **TIME** button (or equivalent) to cycle through the 4 time display styles.
- To set an alarm: Press and hold the**SET** button (or equivalent) to enter alarm setting mode. Use the UP/DOWN buttons to adjust hours and minutes. Press **SET** again to confirm and move to the next setting (e.g., alarm color, alarm enable/disable). The device supports 3 independent alarm settings.

5.5. Breathing Display Mode

- Access this mode by cycling through the main display modes using the**MODE** button.



Image 2: The display showcasing both its dynamic music spectrum visualization and its digital clock function.



Image 3: The display integrated into a car interior, demonstrating its versatility in various environments.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to gently wipe the display surface and casing. Avoid using abrasive cleaners or solvents.
- **Power:** Disconnect the power cable when the device is not in use for extended periods.
- **Environment:** Keep the device away from direct sunlight, high temperatures, humidity, and strong magnetic fields.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device does not power on.	No power supply or faulty USB cable/adapter.	Ensure the USB cable is securely connected. Try a different USB port or power adapter (5V 1A recommended).
No spectrum reaction to sound.	Voice sensor disabled or audio input issue.	If an auxiliary audio cable is connected, ensure the audio source is playing and the cable is functional. If using voice control, ensure the environment is not too quiet or the device is not too far from the sound source. Check if the device is in a non-spectrum mode (e.g., clock mode).
Clock time is incorrect.	Time not set or reset after power loss.	Refer to section 5.4 to set the correct time.
Display is too dim or too bright.	Brightness level needs adjustment.	Refer to section 5.3 to adjust the brightness level.

8. Specifications

- **Model:** CAI-256
- **Material:** ABS
- **Display Method:** 16 columns, 24 rows, 384 RGB LEDs total
- **Power Supply:** 5V 1A USB
- **Rated Power:** 3W
- **Housing Color:** White
- **Dimensions (Packaging):** Approximately 27 x 11 x 6 cm
- **Weight (Packaging):** Approximately 286 g
- **Features:** Sound-activated control, line-in control, 12 display modes, 7 color modes (84 effects), 8 brightness modes, 4 time display modes, 1 breathing display mode, 3-way alarm clock function.

9. Warranty and Support

This product comes with a standard manufacturer's warranty. For specific warranty details, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or further inquiries, please reach out to Klanata customer service through the contact information provided on your purchase receipt or the official Klanata website.

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