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## Govee H6604B

# Govee HDMI 2.1 Sync Box 2 User Manual

Model: H6604B

### INTRODUCTION

The Govee HDMI 2.1 Sync Box 2 is designed to elevate your entertainment experience by synchronizing ambient lighting with your TV screen content. Featuring the latest HDMI 2.1 interface, it supports high resolutions and refresh rates, including 8K@60Hz and 4K@144Hz, along with advanced gaming technologies like VRR and ALLM. Its unique CogniGlow Technology uses AI to recognize on-screen content and reflect corresponding lighting effects, creating a truly immersive environment. The RGBWIC LED light strip ensures vibrant and accurate color reproduction, enhancing both movies and games.

### IMPORTANT SAFETY INFORMATION

Please read all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or other hazards. Keep the device away from water and high temperatures. Do not attempt to disassemble or repair the device yourself. Use only the provided power adapter and cables.

### WHAT'S IN THE BOX

- HDMI 2.1 Sync Box \*1
- Strip Lights \*1
- Power Adapter \*1
- HDMI 2.1 Cable \* 2

### SETUP GUIDE

## 1. Physical Installation of the Light Strip

Before attaching the light strip, ensure the installation area on the back of your TV is clean and dry. Use an alcohol prep pad if necessary.

**Upgrade to 8K Resolutions and 4K@144Hz  
Smoother Gaming with HDMI 2.1**

**8K 60Hz** **144Hz 4K**

**HDMI 2.1**

Note: Maximum performance (8K60Hz, 4K@144Hz) may vary depending on different screen types. The product may not support some screens using DSC technology. Please refer to customer service to check the compatibility of your screen.

Image: Cleaning the TV back with an alcohol prep pad.

Carefully peel off the adhesive backing from the light strip and firmly press it onto the back of your TV, following the edges. Use the provided mounting clips to secure the light strip, especially at the corners, to ensure a stable and neat installation.

## Reduced Latency and Tearing with VRR and ALLM Support



Image: Installing the LED light strip on the back of a TV and securing corners with clips.

### 2. Connecting the Sync Box

Connect the light strip to the Type-C ports on the Govee HDMI 2.1 Sync Box. Then, connect your TV to the HDMI ports in the "OUT" zone of the Sync Box. Connect your input devices (PC, streaming box, game console) to the HDMI ports in the "IN" zone. Finally, connect the power supply to the Sync Box.

# Industry-First AI-Chips Recognize Content and Reflect the Corresponding Lighting Effects



Champion



Knocked Down  
Enemy



Respawning Team  
Members



Image: Connection diagram for the Govee HDMI 2.1 Sync Box 2, illustrating inputs from various devices and output to the TV.

### 3. App Pairing and Calibration

Download the Govee Home App from your device's app store. Open the app and follow the on-screen instructions to pair your Govee HDMI 2.1 Sync Box 2. The app will guide you through the calibration process, which involves setting the positions of the lights to match your TV screen for optimal synchronization.

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Video: A step-by-step guide on how to install and set up the Govee AI Sync Box 2, including physical installation and app pairing.

## OPERATING INSTRUCTIONS

### Basic Operation

Once set up, the Govee HDMI 2.1 Sync Box 2 will automatically synchronize the lighting with your TV's HDMI input. You can control the device's power, brightness, and lighting modes via the Govee Home App or through integrated smart home systems.

### Advanced HDMI 2.1 Features

The Sync Box supports resolutions up to 8K@60Hz and 4K@144Hz, ensuring high-quality video passthrough. It also supports Variable Refresh Rate (VRR) and Auto Low Latency Mode (ALLM) to reduce screen tearing and input lag, providing a smoother gaming experience.

# RGBWIC Technology for Accurate Lighting in Every Bead

Brighter and Smoother Lighting with 75 Beads/m



Image: Illustration of VRR and ALLM support for reduced screen tearing and latency.

## CogniGlow Technology

Govee's unique CogniGlow Technology utilizes AI chips to automatically recognize images and text on your screen. This allows the Sync Box to determine specific trigger conditions and match lighting effects accordingly, enhancing your viewing experience with intelligent ambient lighting.

# Matter Support Brings Your Smart Home Dreams to Life

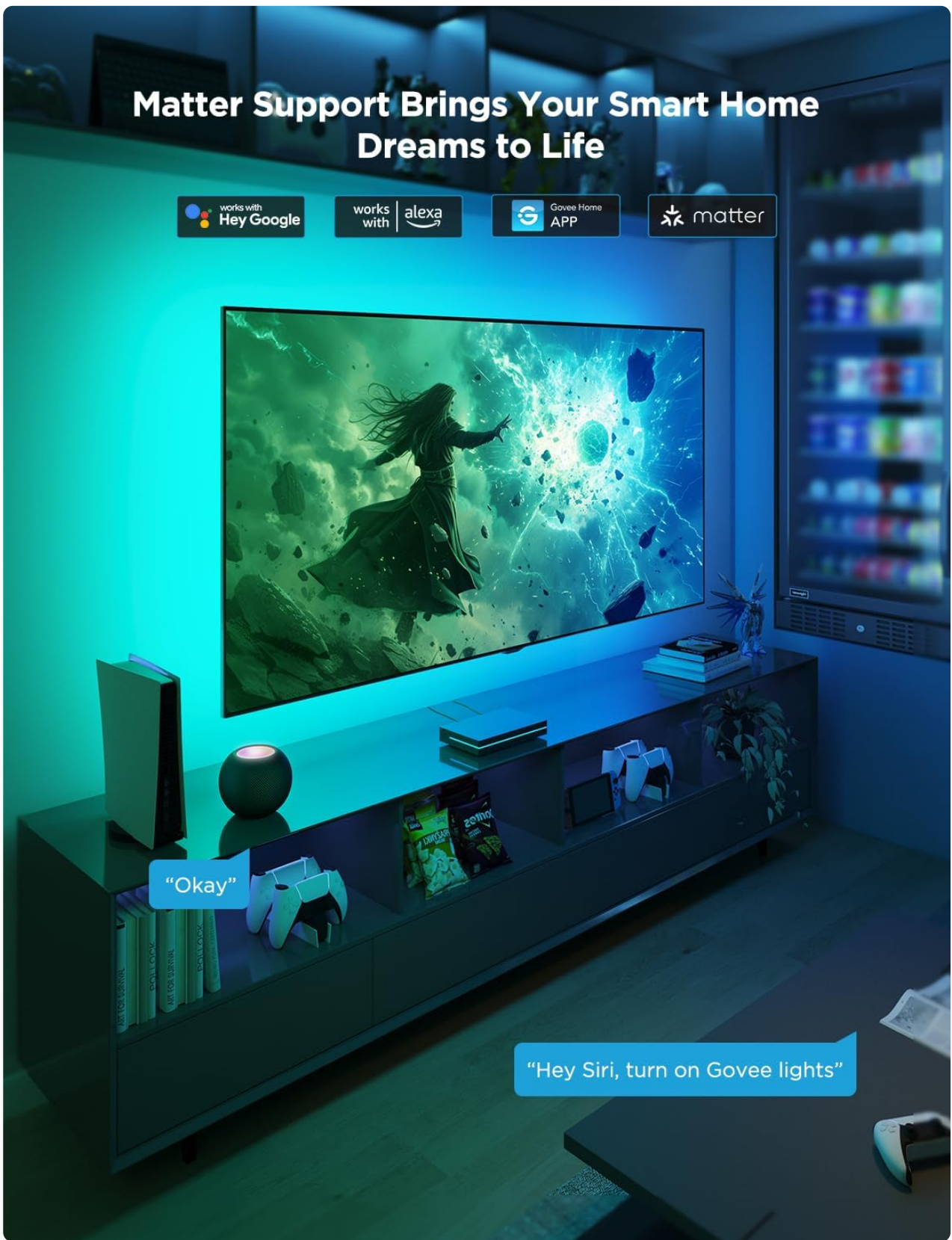


Image: AI-chips recognizing in-game content to reflect corresponding lighting effects.

## RGBWIC Four-Color Mixing

The included RGBWIC LED light strip features 75 LEDs/m and 450 lumens/m, providing a high-density and bright lighting experience. The RGBWIC technology ensures purer white light and accurate color blending, making it ideal for vibrant game visuals and rich movie scenes.

## Elevate Your Game with Upgraded Specs



Govee AI Gaming Sync Box

Govee AI Sync Box 2

Port	HDMI 2.0	HDMI 2.1
LED Density	60 LEDs/m	75 LEDs/m
LED Tech	RGBIC	RGBWIC
HDMI Inputs	3	4
Matter	✗	✓
VRR	✗	✓
ALLM	✗	✓
4K 144Hz	✗	✓
8K 60Hz	✗	✓

Image: Close-up of the RGBWIC LED light strip, highlighting its high density and brightness.

### Matter Support and Voice Control

The Govee HDMI 2.1 Sync Box 2 seamlessly integrates with multiple smart ecosystems, including Matter and Alexa. This allows for convenient voice control of your lighting setup, enhancing ease of use and smart home connectivity.

# What's in the box



Image: Matter support and voice control integration with popular smart home platforms.

## DreamView Synchronization

Utilize the DreamView feature to synchronize colors across multiple Govee lights in your room, creating a fully immersive gaming or viewing environment that extends beyond your TV screen.

Your browser does not support the video tag.

Video: An overview of the Govee HDMI 2.1 Sync Box 2, showcasing its features including DreamView for synchronized lighting.

## Note on HDR, HDR10+, and Dolby Vision

When HDR, HDR10+, or Dolby Vision is enabled, the saturation of the light's color might decrease due to functional characteristics. This is normal behavior. You can adjust the saturation in the Govee Home App to achieve your desired lighting effect.

## MAINTENANCE

To ensure optimal performance and longevity of your Govee HDMI 2.1 Sync Box 2 and light strip, regularly clean the devices with a soft, dry cloth. Avoid using abrasive cleaners or solvents. Ensure proper ventilation around the Sync Box to prevent overheating.

## TROUBLESHOOTING

If you encounter any issues with your Govee HDMI 2.1 Sync Box 2, please refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Sync Box and a working power outlet.
- **No Light Synchronization:** Verify all HDMI cables are correctly connected to the IN and OUT ports. Ensure the light strip is properly connected to the Type-C ports. Check the Govee Home App for correct calibration and settings.
- **Incorrect Colors:** Recalibrate the light strip's positions in the Govee Home App. Adjust color settings and saturation within the app.
- **App Connectivity Issues:** Ensure Bluetooth and Wi-Fi are enabled on your mobile device. Make sure the Sync Box is within Bluetooth range and connected to a stable 2.4GHz Wi-Fi network.
- **Flickering Lights:** Check for loose connections. Ensure your input source is stable. Adjust brightness or saturation settings in the app.

For further assistance, please contact Govee customer support.

## SPECIFICATIONS

Feature	Detail
Brand	Govee
Model Number	H6604B
Connectivity Technology	HDMI 2.1, Bluetooth, Wi-Fi
Supported Resolution	Up to 8K@60Hz, 4K@144Hz
Special Features	VRR, ALLM, CogniGlow Technology, RGBWIC, Matter Support, DreamView
Light Strip Density	75 LEDs/m
Light Strip Brightness	450 lumens/m

Control Method	App, Voice (Alexa, Google Home)
Indoor/Outdoor Usage	Indoor
Item Weight	4.25 pounds

## WARRANTY AND SUPPORT

Govee products come with a limited warranty. For detailed warranty information, product registration, or technical support, please visit the official Govee website or contact their customer service team. Keep your purchase receipt for warranty claims.

For the latest updates and support, visit: [www.govee.com](http://www.govee.com)