

KOMIGAN KMG-45

KOMIGAN KMG-45 Motion Sensor with Daylight Sensor LED Stair Light Kit User Manual

Model: KMG-45

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your KOMIGAN KMG-45 Motion Sensor with Daylight Sensor LED Stair Light Kit. This system is designed to provide intelligent, energy-efficient lighting for indoor staircases, corridors, and other areas, enhancing safety and ambiance.

The kit features RGB-IC LED strip lights, allowing for multiple colors to be displayed simultaneously on a single strip, offering dynamic lighting effects. Integrated motion and daylight sensors provide automatic control, while a wall switch option offers manual override. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: KOMIGAN KMG-45 LED Stair Light Kit in operation.

2. SAFETY INFORMATION

- **Indoor Use Only:** This product is designed for indoor applications. Do not expose to water or high humidity.
- **Power Source:** Ensure the power supply matches the specified voltage (AC100-240V input, 5-24VDC output). Incorrect voltage can damage the device and pose a safety risk.
- **Installation:** Installation should be performed by a qualified individual if you are unfamiliar with electrical wiring. Ensure power is disconnected before any installation or maintenance.
- **Cutting LED Strips:** LED strips are cuttable at designated points only (every 0.98 inch). Cutting at non-designated points will damage the strip.
- **Ventilation:** Ensure adequate ventilation around the controller to prevent overheating.
- **Children:** Keep all components out of reach of children.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x Controller (KMG-45)
- 1x Power Supply (AC Adapter)
- 1x RGBIC LED Strip Light (16.4FT / 5m)
- 2x Motion Sensors (PIR sensors)
- 1x Daylight Sensor
- 2x Push Button Panel Switches
- 2x Sensor Extension Cables (5m each)
- 1x LED Strip Extension Cable (3m)
- 1x Panel Switch Extension Cable (7m)
- 1x Screwdriver
- Mounting Accessories (e.g., adhesive pads, clips)



Figure 2: Contents of the KMG-45 LED Stair Light Kit.

4. SPECIFICATIONS

Feature	Specification
Brand	KOMIGAN
Model Number	KMG-45-RGBIC
Color	RGB (Red, Green, Blue)
Material	Plastic
Light Fixture Form	Wall
Room Type	Staircase
Product Dimensions	10"L x 8"W x 4"H
Specific Uses	Indoor use only
Power Source	AC
Installation Type	DIY
Special Feature	Motion Sensor
Control Method	Touch (via push buttons)
Light Source Type	LED
Number of Light Sources	150
Voltage	1.1E+2 Volts (AC input)
Light Color	Multicolor
Wattage	25 watts
Controller Type	Push Button
Water Resistance Level	Not Water Resistant

5. SETUP AND INSTALLATION

Careful installation is key to the optimal performance of your stair light kit. Follow these steps for a successful setup.

5.1 Wiring Diagram

Refer to the wiring diagram below for connecting all components to the controller.

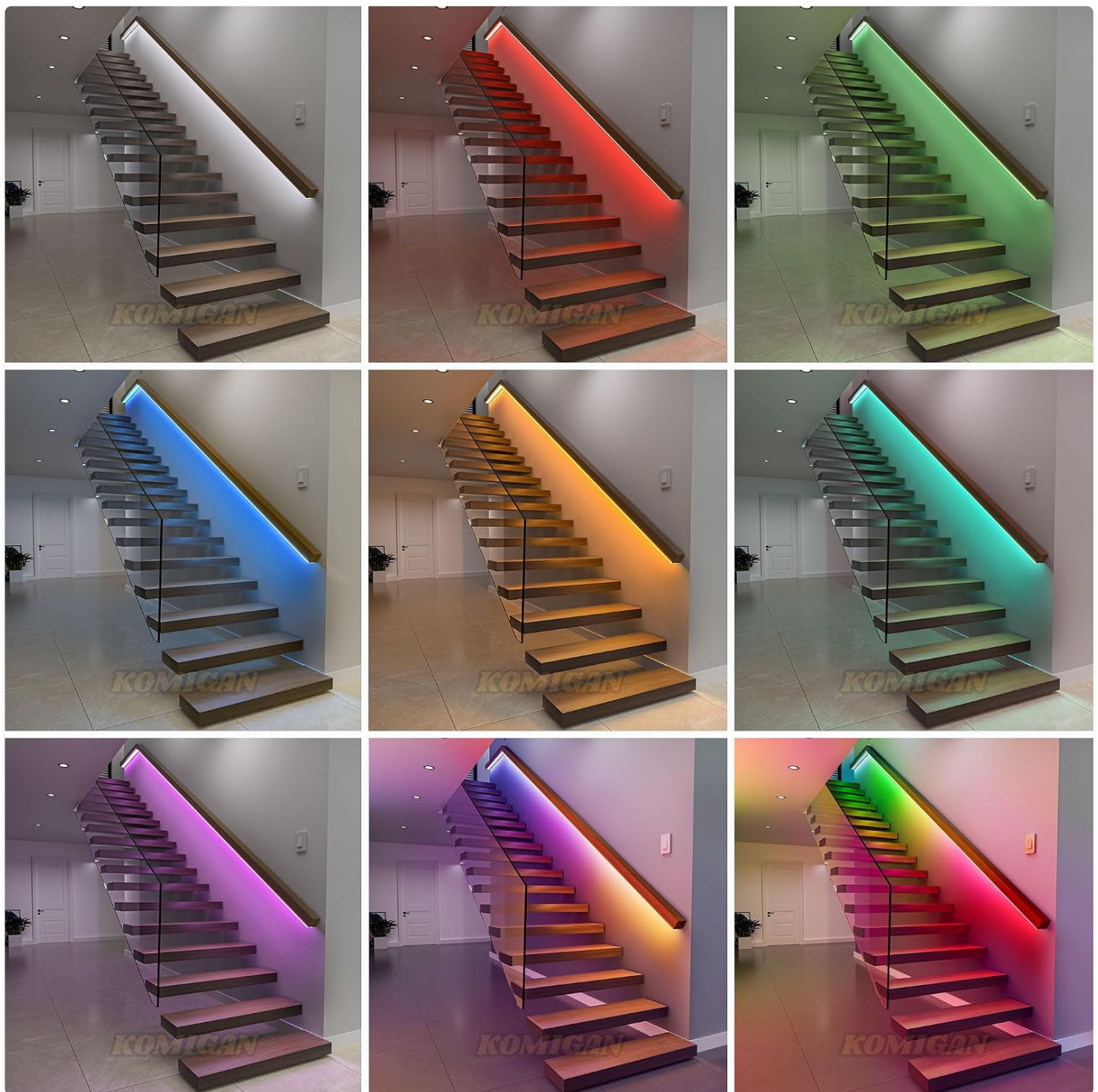


Figure 3: KMG-45 Controller Wiring Diagram.

5.2 Installation Steps

1. **Prepare the Installation Area:** Ensure the staircase and surrounding areas are clean and dry. Plan the routing for the LED strips and sensor cables.
2. **Mount the Controller:** Choose a discreet, accessible location for the controller, such as under the stairs or in a nearby cabinet. Secure it using appropriate mounting hardware.
3. **Connect the Power Supply:** Connect the power supply to the controller's power input terminal. **Do not plug into a wall outlet yet.**
4. **Install LED Strips:** Measure and cut the LED strips to the desired lengths for each step or handrail. Ensure cuts are made only at the designated cutting marks (copper pads). Attach the LED strips using their adhesive backing or mounting clips. Connect the LED strip to the controller's output terminal.
5. **Position Motion Sensors:** Install the two motion sensors (UP PIR and DW PIR) at the top and bottom of the staircase, respectively. Ensure they have a clear line of sight to detect movement. Connect them to the corresponding sensor input terminals on the controller.

6. **Install Daylight Sensor:** Place the daylight sensor in an area that accurately reflects the ambient light conditions of the staircase. Connect it to the daylight sensor input terminal on the controller.
7. **Connect Push Button Switches:** Install the push button panel switches in convenient locations for manual control. Connect them to the switch input terminals on the controller.
8. **Secure Wiring:** Neatly route and secure all cables to prevent tripping hazards and ensure a clean installation. Use cable ties or clips as needed.
9. **Power On and Test:** Once all connections are secure and verified, plug the power supply into a wall outlet. Test the motion sensors, daylight sensor, and push button switches to ensure proper operation.

5.3 Installation Video Guide

For a visual guide on the installation process, please watch the video below:

Your browser does not support the video tag.

Video 1: Step-by-step guide for connecting the KOMIGAN KMG-45 LED Stair Light Kit components.

6. OPERATING INSTRUCTIONS

The KMG-45 controller offers multiple modes and customizable settings for your lighting system.

6.1 Lighting Modes

- **Motion Sensor Mode:** Lights activate upon detecting movement and turn off after a set delay.
- **Daylight Sensor Mode:** Lights operate based on ambient light levels, typically activating in low light conditions.
- **Wall Switch Control:** Manual control via the connected push button switches to turn lights on/off.
- **Light Stay On Mode:** Lights remain continuously on, overriding sensor controls.

6.2 Customizing Settings

The controller allows for adjustment of various parameters to personalize your lighting experience:

- **Pixel Point Number:** Adjust the number of active LED segments.
- **Color Type:** Select from 10 distinct colors.
- **Light Change Type:** Choose from 5 different lighting effects (e.g., fading, chasing, static).
- **Brightness:** Adjust the intensity of the lights.
- **Speed:** Control the speed of dynamic lighting effects.
- **Delay Time:** Set the duration the lights remain on after motion detection.
- **Sensor Activation:** Configure how lights turn on/off when motion or daylight sensors are activated.
- **Switch Button Functionality:** Define the on/off behavior when using the physical switch buttons.

Refer to the controller's display and buttons for navigating and adjusting these settings. Specific button functions will be indicated on the controller itself.

Wiring Diagram

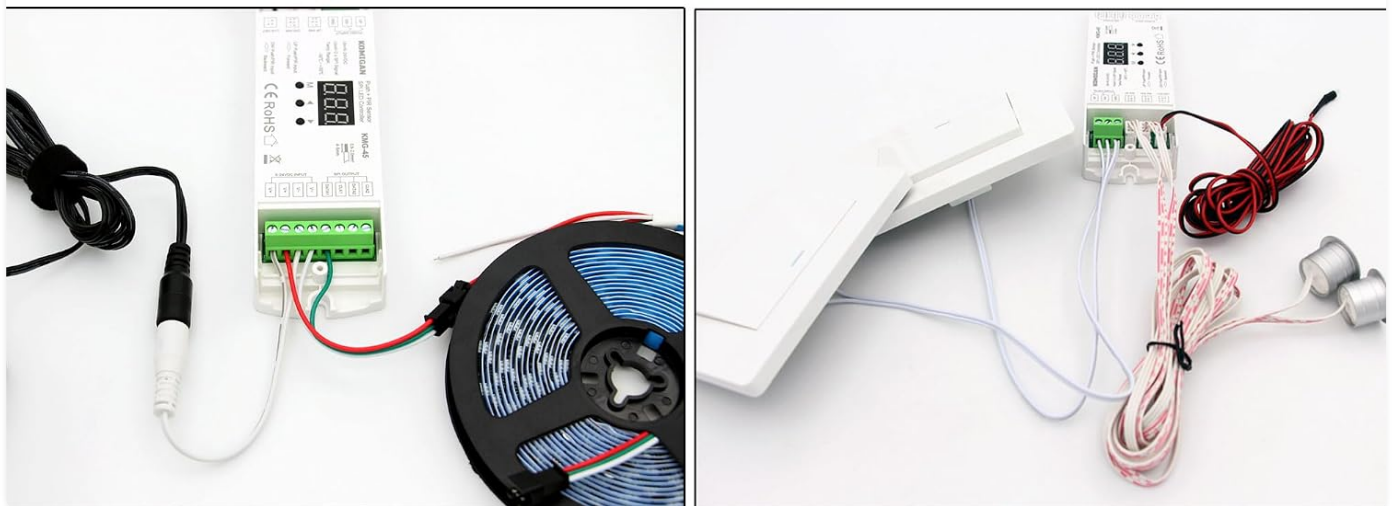
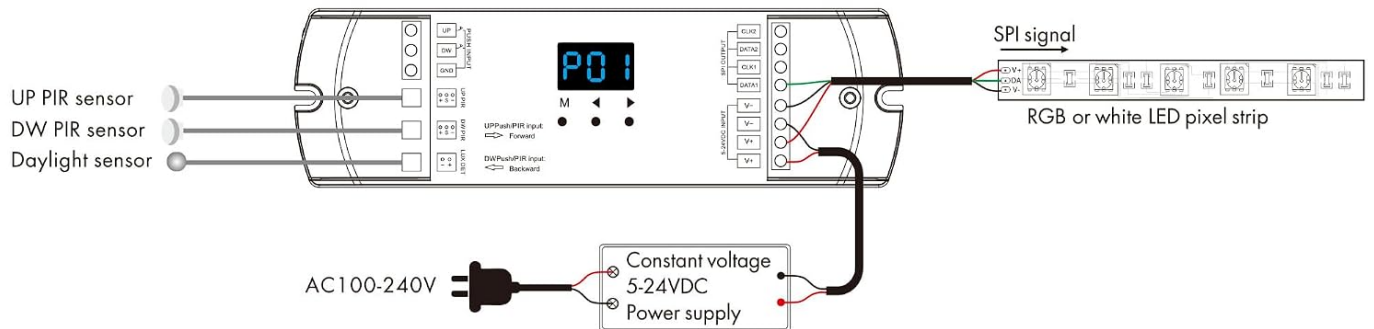


Figure 4: Examples of dynamic RGB-IC lighting effects.

7. MAINTENANCE

To ensure the longevity and optimal performance of your KOMIGAN KMG-45 LED Stair Light Kit, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the LED strips, sensors, and controller with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as these can damage the components.
- **Dust Removal:** Periodically check sensors for dust accumulation, which can affect their sensitivity. Use a soft brush or compressed air to clean them.
- **Connection Check:** Occasionally inspect all wiring connections to ensure they remain secure. Loose connections can lead to intermittent operation or electrical issues.
- **Environmental Conditions:** Ensure the product remains in an indoor environment, protected from moisture and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your stair light kit, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
Lights do not turn on.	No power, loose connections, faulty power supply, incorrect sensor settings.	Check if the power adapter is plugged in and receiving power. Verify all wiring connections are secure. Test the power supply with another device if possible. Review controller settings for sensor activation and light modes.
Lights flicker or are dim.	Loose connections, insufficient power, damaged LED strip.	Inspect all connections. Ensure the power supply meets the kit's requirements. Check the LED strip for visible damage.
Motion sensor not detecting movement.	Sensor obstructed, incorrect placement, sensitivity setting too low.	Ensure the sensor has a clear line of sight. Adjust sensor position. Increase motion sensor sensitivity in controller settings.
Daylight sensor not working correctly.	Sensor obstructed, incorrect placement, sensitivity setting.	Ensure the sensor is not covered or in a consistently dark/bright spot. Adjust daylight sensor sensitivity in controller settings.
Lights remain on constantly.	Incorrect mode selected, faulty sensor, switch stuck.	Check if 'Light Stay On Mode' is active. Inspect motion sensors for continuous activation. Ensure push button switches are not stuck in the 'on' position.
Colors or effects are not changing.	Incorrect controller settings, damaged LED strip.	Verify color type and light change type settings on the controller. Check the LED strip for any physical damage.

If the issue persists after attempting these solutions, please contact KOMIGAN customer support for further assistance.

9. WARRANTY AND SUPPORT

KOMIGAN products are designed for quality and reliability. For warranty information and customer support, please refer to the documentation included with your purchase or visit the official KOMIGAN website. If you require technical assistance or have questions regarding your KMG-45 LED Stair Light Kit, please contact KOMIGAN customer service.

Contact Information: Refer to your product packaging or the KOMIGAN brand store on Amazon for the most current support details.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question