

HBN 204R

HBN Outdoor Light Timer with Remote Control (Model 204R) - Instruction Manual

1. INTRODUCTION

Thank you for choosing the HBN Outdoor Light Timer with Remote Control. This device is designed to automate your outdoor lighting and appliances, offering convenience and energy efficiency. It features multiple timing options, a photocell sensor for automatic dusk-to-dawn operation, and a remote control for easy management. Please read this manual thoroughly before use to ensure proper installation and operation.

2. IMPORTANT SAFETY INSTRUCTIONS

- For outdoor use only.
- Always plug into a grounded outlet.
- Do not immerse in water.
- Ensure the timer is mounted vertically at least 2 feet (60 cm) above the ground to prevent water ingress and ensure optimal waterproof performance.
- Do not exceed the electrical ratings of 15A/1875W Resistive, 10A/1250W Tungsten, 1/2HP, TV-5.
- Keep children away from the device.
- Unplug the timer from the outlet before performing any maintenance or cleaning.
- Do not use with extension cords that are not rated for outdoor use.

3. PACKAGE CONTENTS

- 1 x HBN Outdoor Light Timer (Model 204R)
- 1 x Remote Control
- 1 x Battery (Alkaline, 12V/23A)
- 1 x Instruction Manual

4. PRODUCT FEATURES

- **Multiple Timer Functions:** Offers 4 countdown options (ON at dusk, OFF after 2/4/6/8 hours), 2 switch modes (always on/off), and 1 photocell sensor mode (ON at dusk, OFF at dawn).

- **Photocell Light Sensor:** Built-in sensor automatically detects dusk and darkness, turning lights on and off without manual intervention.
- **Space-Saving & Durable Design:** Features a flat plug design ideal for crowded outlets. The durable casing is resistant to sun and water damage.
- **Remote Control:** Includes a 6-inch cord and 3 grounded outlets. The remote control utilizes a strong RF signal with a range of up to 100 feet, capable of penetrating walls and doors.

5. SETUP

1. **Unpack the Timer:** Carefully remove the timer unit and remote control from the packaging.
2. **Install Remote Battery:** Open the battery compartment on the remote control and insert the provided 12V/23A alkaline battery, ensuring correct polarity.
3. **Mount the Timer:** Mount the timer vertically at least 2 feet (60 cm) above the ground. This ensures proper water drainage and optimal performance of the photocell sensor.
4. **Plug into Outlet:** Plug the timer's flat plug into a grounded outdoor electrical outlet.
5. **Connect Devices:** Plug your outdoor lights or appliances into the 3 grounded outlets on the timer unit.



Image: The HBN Outdoor Light Timer unit with its remote control, showcasing the main components.

6. OPERATING INSTRUCTIONS

6.1. Using the Dial Selector

The timer unit features a rotating dial to select various operating modes:

- **ON:** Keeps connected devices continuously on.
- **OFF:** Keeps connected devices continuously off.
- **DUSK-DAWN:** Turns devices on automatically at dusk and off at dawn.
- **2Hrs/4Hrs/6Hrs/8Hrs:** Turns devices on at dusk and automatically turns them off after the selected duration (2, 4, 6, or 8 hours).

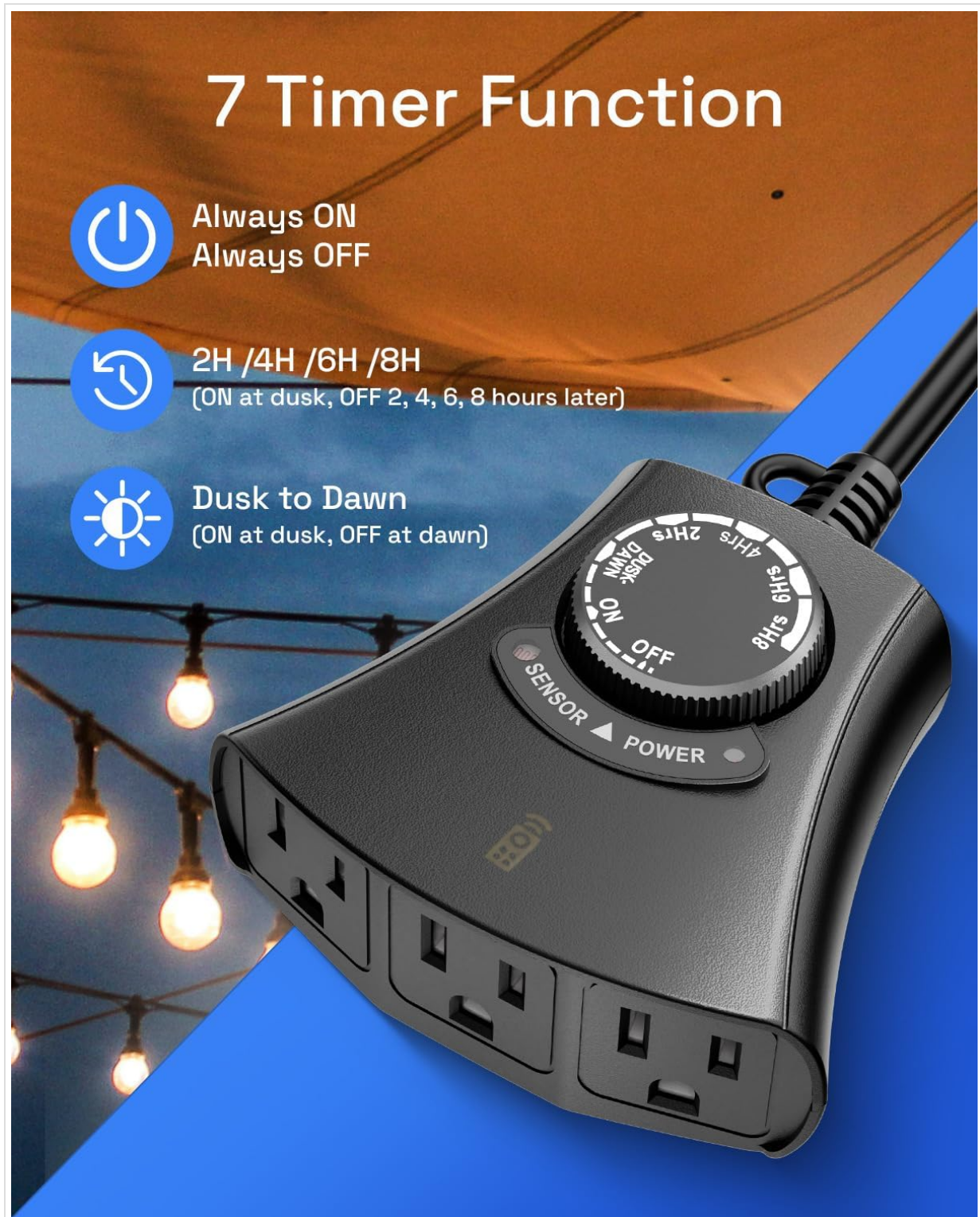


Image: The HBN Outdoor Light Timer with its dial clearly indicating the 7 available timer functions.

6.2. Using the Remote Control

The remote control allows you to manually turn the connected devices ON or OFF, overriding the dial settings if needed. The remote has a 100 ft range and can penetrate walls and doors.

- Press the **ON** button to turn connected devices on.
- Press the **OFF** button to turn connected devices off.



Image: A person comfortably operating outdoor lights with the remote control from inside their home, highlighting the 100ft wireless range.

6.3. Official Product Overview Video

Video: An official overview of the HBN Outdoor Light Timer with Remote Control, demonstrating its features and basic operation.

7. TIMER MODES EXPLAINED

7.1. Dusk-to-Dawn Mode

In this mode, the built-in photocell sensor detects ambient light levels. When it gets dark (dusk), the connected devices will automatically turn on. When it gets light again (dawn), they will automatically turn off. This mode is ideal for continuous nighttime illumination.

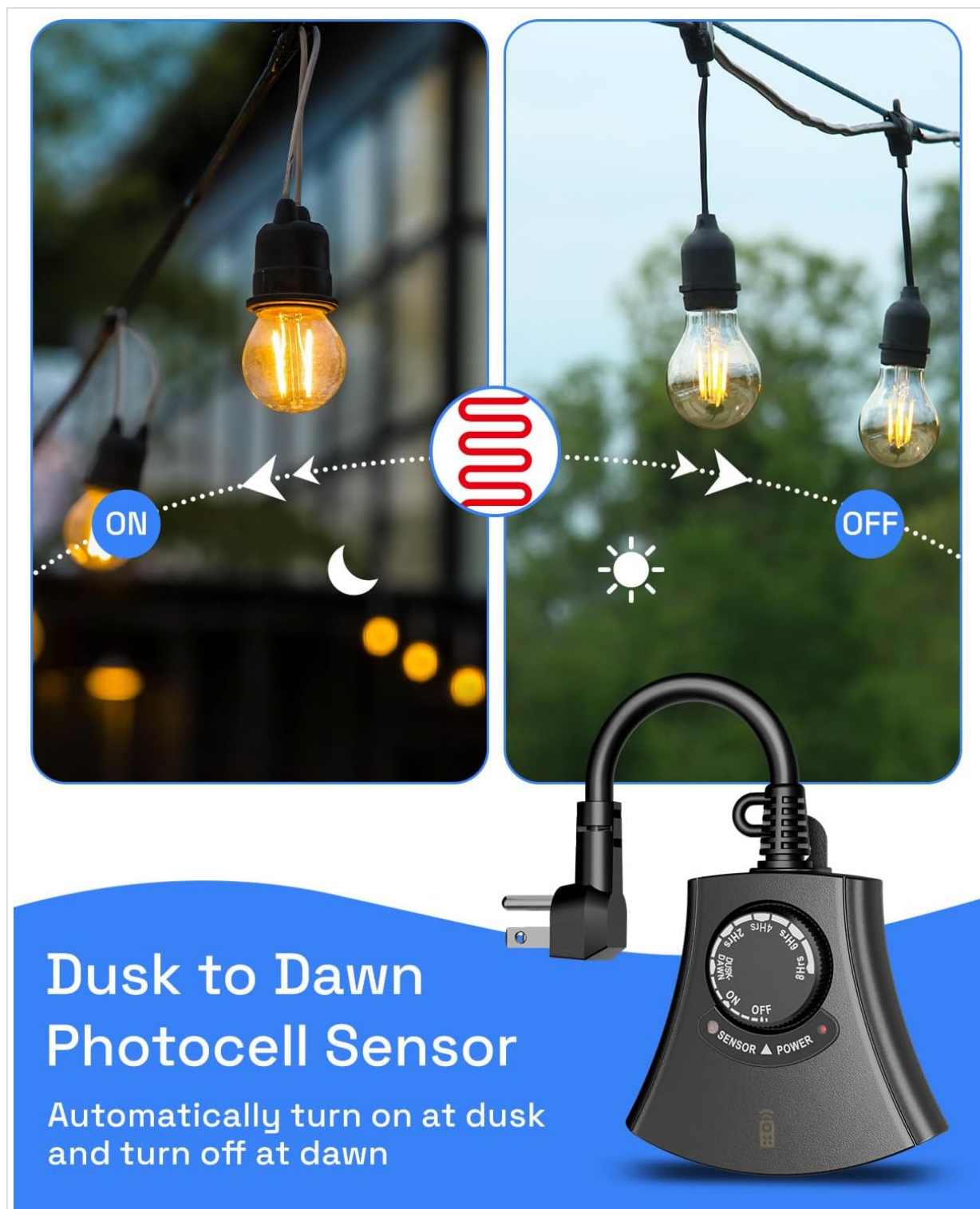


Image: Visual representation of the Dusk-to-Dawn photocell sensor functionality, showing lights turning on at dusk and off at dawn.

7.2. Countdown Timer Modes (2/4/6/8 Hours)

When one of these modes is selected, the devices will turn on at dusk (detected by the photocell sensor) and

remain on for the specified duration (2, 4, 6, or 8 hours) before automatically turning off. This is useful for saving energy while still providing light for a set period after dark.

8. REMOTE CONTROL PAIRING

If your remote control is not responding, it may need to be paired with the timer unit. Follow these steps:

1. Press and hold both the **ON** and **OFF** buttons on the remote control handset simultaneously.
 2. While still holding the buttons, plug the timer unit into an electrical outlet.
 3. Continue holding both buttons on the remote control handset.
 4. The power output indicator light on the timer unit will flash for approximately 2 seconds and then go off.
 5. Release the buttons. The remote control is now successfully paired with the timer unit.
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9. INSTALLATION GUIDELINES

- **Placement:** Choose a location where the photocell sensor is not obstructed by direct light sources (e.g., porch lights, car headlights) that could interfere with its operation.
- **Mounting:** For optimal weather resistance, mount the timer vertically with the outlets facing downward, at least 2 feet (60 cm) above the ground. This prevents water from accumulating in the outlets.
- **Weather Resistance:** The timer is designed to be waterproof, windproof, snowproof, and sunproof. However, proper mounting is crucial for long-term durability.



Image: The HBN Outdoor Light Timer mounted vertically on an exterior wall, demonstrating its weatherproof design.

10. MAINTENANCE

- **Cleaning:** Periodically wipe the timer unit with a damp cloth to remove dirt and debris. Ensure the photocell sensor is clean and unobstructed.
- **Inspection:** Regularly inspect the power cord and outlets for any signs of damage. If damage is found, discontinue use and replace the unit.
- **Battery Replacement:** Replace the remote control battery (12V/23A Alkaline) when the remote's indicator light does not illuminate or its range decreases.

11. TROUBLESHOOTING

Refer to the following common issues and solutions:

11.1. Troubleshooting Video

Video: An official HBN troubleshooting guide for the Remote Control Timer, addressing common operational issues.

11.2. Common Issues and Solutions

Issue	Possible Cause	Solution
Devices fail to activate at dusk.	Timer is placed in an area with excessive ambient light, preventing the photocell from detecting darkness.	Relocate the timer to a darker area free from ambient light.
Devices do not turn on even when the timer is set to the "ON" position.	Connected devices may be turned off or malfunctioning. Light bulbs may need to be replaced.	Test connected devices by plugging them directly into a working outlet. Ensure each device is switched on if it has its own power switch.
Lights are flickering (repeatedly turning on and off).	The timer is set to Dusk-to-Dawn mode, and light from the connected appliance is interfering with the photocell sensor.	Relocate the lights further from the timer, or adjust the timer's position so that the lights do not shine directly on the photocell.
Power indicator light is not on.	The timer is not fully plugged into the outlet, or the circuit breaker connected to the outlet has tripped.	Ensure the timer is securely plugged into the outlet. Check the circuit breaker connected to the outlet and reset it if necessary.
The remote control does not respond.	The batteries are depleted or the remote is not paired.	Replace the batteries (12V/23A Alkaline) and repair the remote following the steps in Section 8.
Timer stays on after 2Hrs/4Hrs/6Hrs/8Hrs countdown.	The photocell sensor may be exposed to ambient light, preventing it from accurately detecting darkness to initiate the countdown.	Conduct a countdown test after covering the light sensor. If the appliance turns off, relocate the timer to a darker area, as ambient light (e.g., car headlights, window light) may be interfering with the sensor.

12. SPECIFICATIONS

Feature	Detail
Model Number	204R
Brand	HBN
Color	Black
Material	Plastic

Feature	Detail
Product Dimensions	5.71"D x 2.83"W x 2.91"H
Item Weight	8 ounces
Number of Outlets	3 Grounded Outlets
Voltage	125V
Frequency	60Hz
Resistive Rating	15A/1875W
Tungsten Rating	10A/1250W
Motor Rating	1/2HP
Remote Control Range	Up to 100 ft (line of sight)
Remote Battery Type	Alkaline, 12V/23A
Mounting Type	Wall Mount
UPC	810079582617

125V 15A 1875W 1/2Hp








Image: Detailed view of the HBN Outdoor Light Timer, highlighting its dimensions and electrical specifications.

13. WARRANTY AND SUPPORT

The HBN Outdoor Light Timer comes with a 1-year warranty. Additionally, lifetime technical support is provided by our USA-based customer service team. For any questions or concerns, please contact us:

- Email: support@bn-link.com

 <p>Smart Color String Lights</p> <p>-1-</p>	<p>HBN Smart Color String Lights User Manual - Wi-Fi & Bluetooth App Control, Alexa, Google Home Compatible</p> <p>Comprehensive user manual for HBN Smart Color String Lights. Learn how to install, connect via Wi-Fi and Bluetooth using the Smart Life app, and integrate with Amazon Alexa and Google Home. Includes troubleshooting and safety information.</p>
 <p>7 Day Heavy Duty Digital Timer U166</p> <p>Product Description</p> <p>Manual/Automatic Modes Up to 8 Programs Voltage Compatibility: 100V-240V Max Load: 1500W Other Features: Backlit LCD Display</p> <p>Input & Output</p> <p>Input: 100V-240V AC Output: 100V-240V AC</p> <p>Rating & Approval</p> <p>Voltage Compatibility: 100V-240V AC Frequency: 50/60Hz Max Load: 1500W Other Features: Backlit LCD Display</p> <p>Packing</p> <p>Product Dimensions (mm): 110x60x30 Product Weight (kg): 0.15 Gross Weight (kg): 0.2 Net Weight (kg): 0.15 Gross Volume (cm³): 1980 Net Volume (cm³): 1980 Material: ABS Plastic Color: White Model: U166 Manufacturer: HBN Country of Origin: China</p>	<p>HBN U166 7-Day Heavy Duty Digital Timer - Product Overview</p> <p>Detailed overview of the HBN U166 7-Day Heavy Duty Digital Timer, featuring manual/automatic modes, up to 8 programs, voltage compatibility, load ratings, and packing specifications. Ideal for indoor use.</p>
 <p>Smart Color String Lights</p> <p>-1-</p>	<p>HBN Smart Color String Lights User Manual and Setup Guide</p> <p>This guide provides comprehensive instructions for setting up and using the HBN Smart Color String Lights. It covers installation, connecting to the Smart Life app, Wi-Fi setup (2.4GHz required), integration with voice assistants like Amazon Alexa and Google Home, troubleshooting common issues, and important safety information.</p>
 <p>PRODUCT # BND-60/U201D</p> <p>24 HOUR MECHANICAL DUAL OUTLET OUTDOOR TIMER</p> <p>Please keep this handbook www.hn-563.com</p>	<p>HBN 24 Hour Mechanical Dual Outlet Outdoor Timer - Model BND-60/U201D</p> <p>User manual and specifications for the HBN 24 Hour Mechanical Dual Outlet Outdoor Timer (Model BND-60/U201D). Learn how to set ON/OFF times, troubleshoot issues, and view product ratings and applications.</p>
 <p>PRODUCT# BNE-60/U166</p> <p>DUAL OUTLET DIGITAL TIMER</p> <p>ENERGY SAVING</p> <p>Please keep this handbook Designed in California Made in China www.hn-563.com</p>	<p>HBN BNE-60/U166 Dual Outlet Digital Timer User Manual</p> <p>User manual for the HBN BNE-60/U166 Dual Outlet Digital Timer, covering setup, programming, features like DST and Random mode, troubleshooting, and specifications. Designed in California, Made in China.</p>



PRODUCT # BNC-60/U205R
SENSING COUNTDOWN TIMER
REMOTE CONTROL
2-OUTLET



ENERGY
SAVING

Please keep this manual
www.hbn.com

- 1 -

[HBN BNC-60/U205R Sensing Countdown Timer Remote Control 2-Outlet User Manual](#)

User manual for the HBN BNC-60/U205R Sensing Countdown Timer Remote Control with two outlets. Includes safety information, installation instructions, operating modes, pairing, remote control usage, troubleshooting, and warranty details.