Onforu BDB55G-3

Onforu 55W 5000 LM LED Motion Sensor Floodlight BDB55G-3 User Manual

Model: BDB55G-3

1. INTRODUCTION

Thank you for choosing the Onforu 55W 5000 LM LED Motion Sensor Floodlight. This manual provides essential information for the safe installation, operation, and maintenance of your floodlight. Please read these instructions carefully before installation and retain them for future reference.

Front view of the Onforu 3-head LED motion sensor floodlight.

2. SAFETY INFORMATION

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with all local and national electrical codes. Ensure the power supply is disconnected before installation or maintenance.

- **Grounding:** This product must be properly grounded to prevent electric shock.

- **Voltage:** Ensure the supply voltage matches the floodlight's requirements (230 Volts).

- **Mounting:** Mount the floodlight securely on a stable surface. Do not install on unstable or vibrating surfaces.

- **Operating Temperature:** Do not operate the floodlight outside its specified temperature range.

- **Water Resistance:** The floodlight is IP65 rated, suitable for outdoor use in rain, hail, and snow. However, do not submerge the unit in water. The sensor is IP44 rated.

- **Light Source:** Do not stare directly into the LED light source when illuminated, as it may cause eye strain or damage.

3. PRODUCT OVERVIEW

The Onforu 55W LED Motion Sensor Floodlight features a robust design with three adjustable heads and an integrated PIR motion sensor. It is designed for outdoor security lighting, providing bright, cool white illumination.
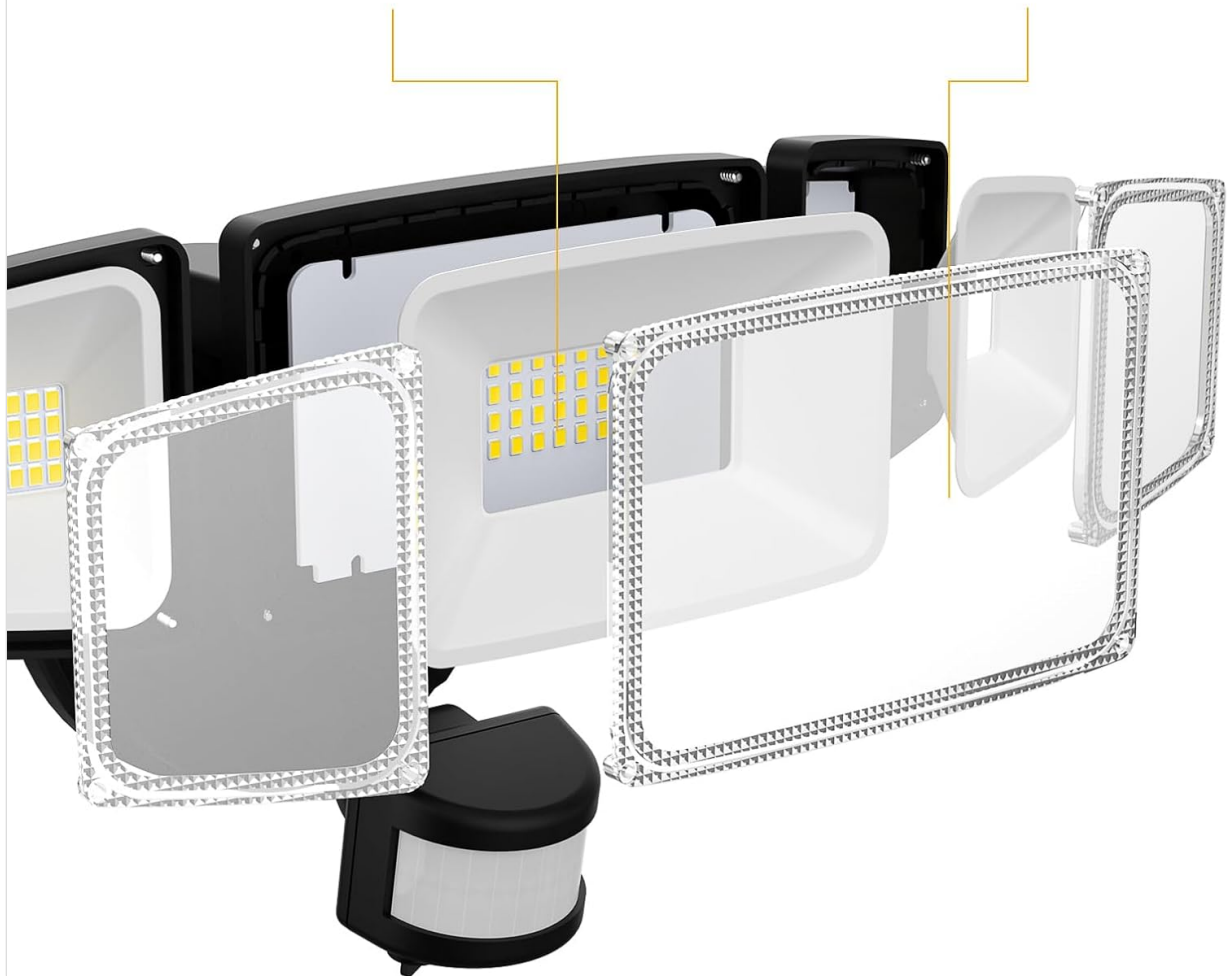
Key Features:

- **High Brightness:** 5000 Lumens output with 120 LED beads.
- **Energy Efficient:** 55W power consumption, saving up to 80% energy.
- **Adjustable Heads:** Three light heads can be adjusted vertically (90°) and side heads horizontally (270°) for wide coverage.
- **Motion Sensor (PIR):** Detects movement with adjustable sensitivity, lighting duration, and ambient light settings.
- **Durable & Waterproof:** IP65 rated aluminum housing and tempered glass for outdoor use.
- **Efficient Heat Dissipation:** Die-cast aluminum construction ensures extended lifespan.

55W powerful power, High-density LED Hamp Beads, Safe, Energy-saving

High-precision Light Transmission Design

Internal components showing LED beads and light transmission design.

4. SPECIFICATIONS

Feature	Specification
Brand	Onforu
Model Number	BDB55G-3
Power Consumption	55 Watts
Luminous Flux	5000 Lumens
Color Temperature	6500 Kelvin (Cool White)
Voltage	230 Volts
Material	Die-cast Aluminum, Tempered Glass
Ingress Protection (IP) Rating	IP65 (Floodlight), IP44 (Sensor)
Motion Sensor Detection Angle	180°
Motion Sensor Detection Distance	6-12 meters (adjustable)

Feature	Specification
Lighting Duration (TIME)	10 seconds to 7 minutes (adjustable)
Average Lifespan	50,000 Hours
Product Dimensions	27.2 x 14.8 x 12 cm
Item Weight	840 grams
Energy Efficiency Class	F

Produktdatenblatt

DELEGIERTE VERORDNUNG (EU) 2019/2015 DER KOMMISSION zur Energieverbrauchskennzeichnung von Lichtquellen

Name oder Handelsmarke des Lieferanten: HONG KONG SHUOHUI INTERNATIONAL LIGHTING CO., LIMITED

Anschrift des Lieferanten: Apex CE Specialists GmbH , Grafenberger Allee 277, 40237 Düsseldorf, DE

Modellkennung: BD85SG-3

Art der Lichtquelle:

Verwendete Beleuchtungstechnologie:	LED	Ungebündelt oder gebündelt:	DLS
Art des Sockels der Lichtquelle (oder andere elektrische Schnittstelle)	Outdoor		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	MLS	Vernetzte Lichtquelle (CLS):	Nein
Farblich abstimmbare Lichtquelle:	Nein	Hülle:	-
Lichtquelle mit hoher Leuchtdichte:	Nein		
Blendschutzschild:	Nein	Dimmbar:	Nein

Produktparameter

Parameter	Wert	Parameter	Wert
		Allgemeine Produktparameter:	
Energieverbrauch im Ein-Zustand [kWh/1000 h], auf die nächstliegende ganze Zahl gerundet	55	Energieeffizienzklasse	F
Nutzlichtstrom (ϕuse) mit Angabe, ob sich der Wert auf den Lichtstrom in einer Kugel (360°), in einem breiten Kegel (120°) oder in einem schmalen Kegel (90°) bezieht	5 000 lm in Kugel (360°)	ähnliche Farbtemperatur, gerundet auf die nächstliegenden 100 K, oder Spanne der einstellbaren ähnlichen Farbtemperaturen, gerundet auf die nächstliegenden 100 K	6 500
Leistungsaufnahme im Ein-Zustand [Pon] in W	55,0	Leistungsaufnahme im Bereitschaftszustand [Psb] in W, auf die zweite Dezimalstelle gerundet	0,00

Leistungsaufnahme im vernetzten Bereitschaftsbetrieb [Pnet] für CLS in W, auf die zweite Dezimalstelle gerundet		Farbwiedergabeindex, auf die nächstliegende ganze Zahl gerundet, oder Spanne der einstellbaren CRI-Werte	82
äußere Abmessungen, ggf. ohne separates Betriebsgerät, Beleuchtungssteuerungsteile und Nicht-Beleuchtungsteile (Millimeter)	Höhe 272 / Breite 123 / Tiefe 121	Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Volllast	Siehe Bild auf letzter Seite
Angabe zu einer gleichwertigen Leistungsaufnahme	-	Falls ja, gleichwertige Leistungsaufnahme (W)	-
		Farbwertanteile (x und y)	0,313 / 0,337
Parameter für Lichtquellen mit gebündeltem Licht:			
Spitzenlichtstärke (cd)	2 300	Halbwertswinkel in Grad oder Spanne der einstellbaren Halbwertswinkel	120
Parameter für LED- und OLED-Lichtquellen:			
Wert des R9-Farbwiedergabeindex	10	Lebensdauerfaktor	1,00
Lichtstromerhalt	0,96		
Parameter für LED- und OLED-Netzspannungslichtquellen:			
Verschiebungsfaktor (cos φ1)	0,90	Farbkonsistenz in MacAdam-Ellipsen	6
Angabe, dass eine LED-Lichtquelle eine Leuchtstofflichtquelle ohne eingebautes Vorschaltgerät mit einer bestimmten Leistungsaufnahme ersetzt.	Ja	Falls ja, Angabe zur ersetzten Leistungsaufnahme (W)	-
Flimmer-Messgröße (Pst LM)	1,0	Messgröße für Stroboskop-Effekte (SVM)	0,0

[a] nicht zutreffend,
[b] nicht zutreffend

Das Modell wurde auf dem Unionsmarkt in Verkehr gebracht, und zwar ab dem 7.

EU Energy Label. For more details, scan the QR code or visit[eprel.ec.europa.eu/qr/2366865](eprel.ec.europa.eu/qr/2366865).

5. INSTALLATION

Before beginning installation, ensure the main power supply is turned off at the circuit breaker to prevent electric shock.
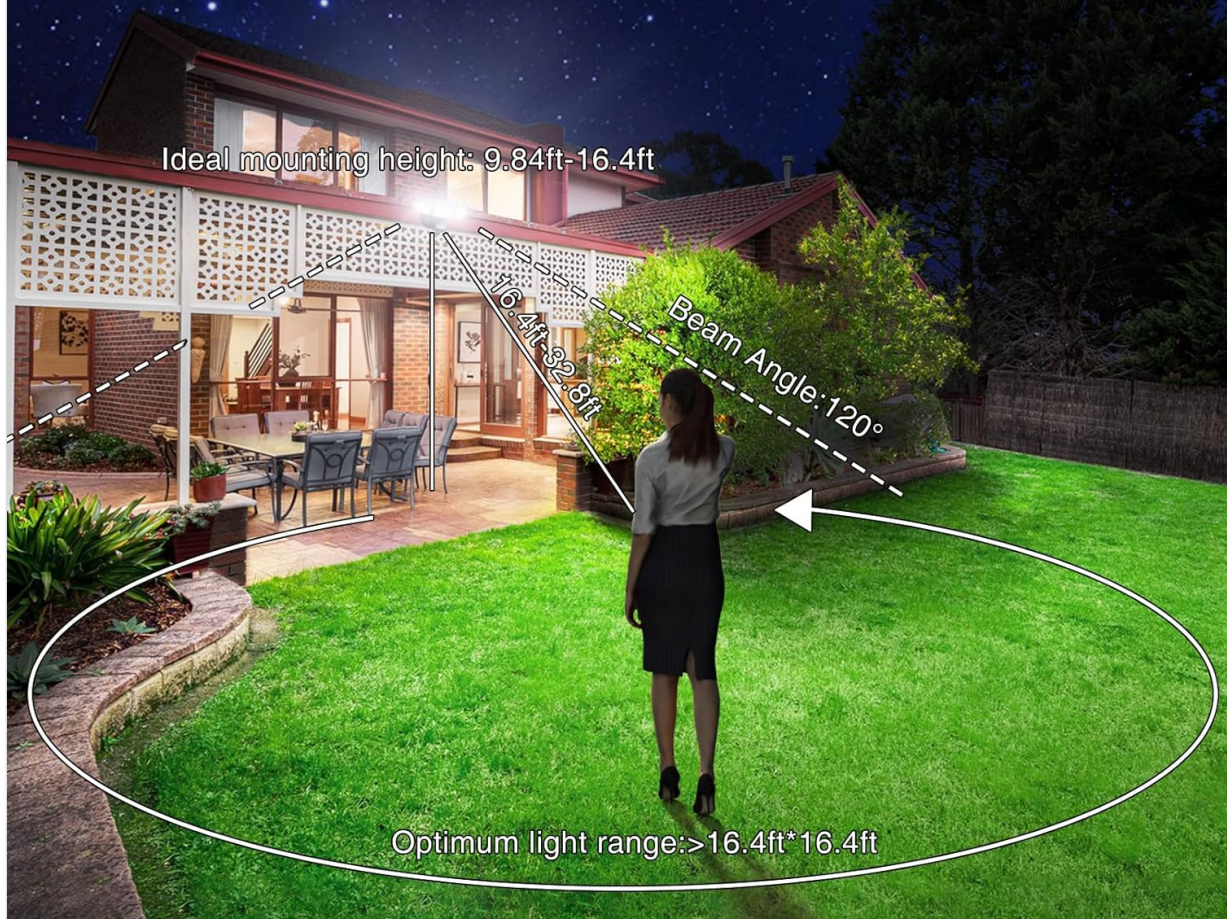
5.1 Mounting Location

- Choose a mounting location that provides the desired coverage area and is within reach of the electrical wiring.
- The ideal mounting height is between 3 to 5 meters (9.84 ft - 16.4 ft) for optimal motion detection and light distribution.
- Avoid mounting near heat sources or objects that could cause false triggers for the motion sensor.

Ideal mounting height and light coverage.

5.2 Wiring Instructions

The floodlight comes with pre-stripped wires for connection. Follow the standard electrical wiring color codes:

- **Brown Wire:** Live (L)
- **Blue Wire:** Neutral (N)
- **Green/Yellow Wire:** Ground ( )

Connect these wires to your household electrical circuit accordingly. Ensure all connections are secure and insulated. It is recommended to use a waterproof junction box for outdoor connections.
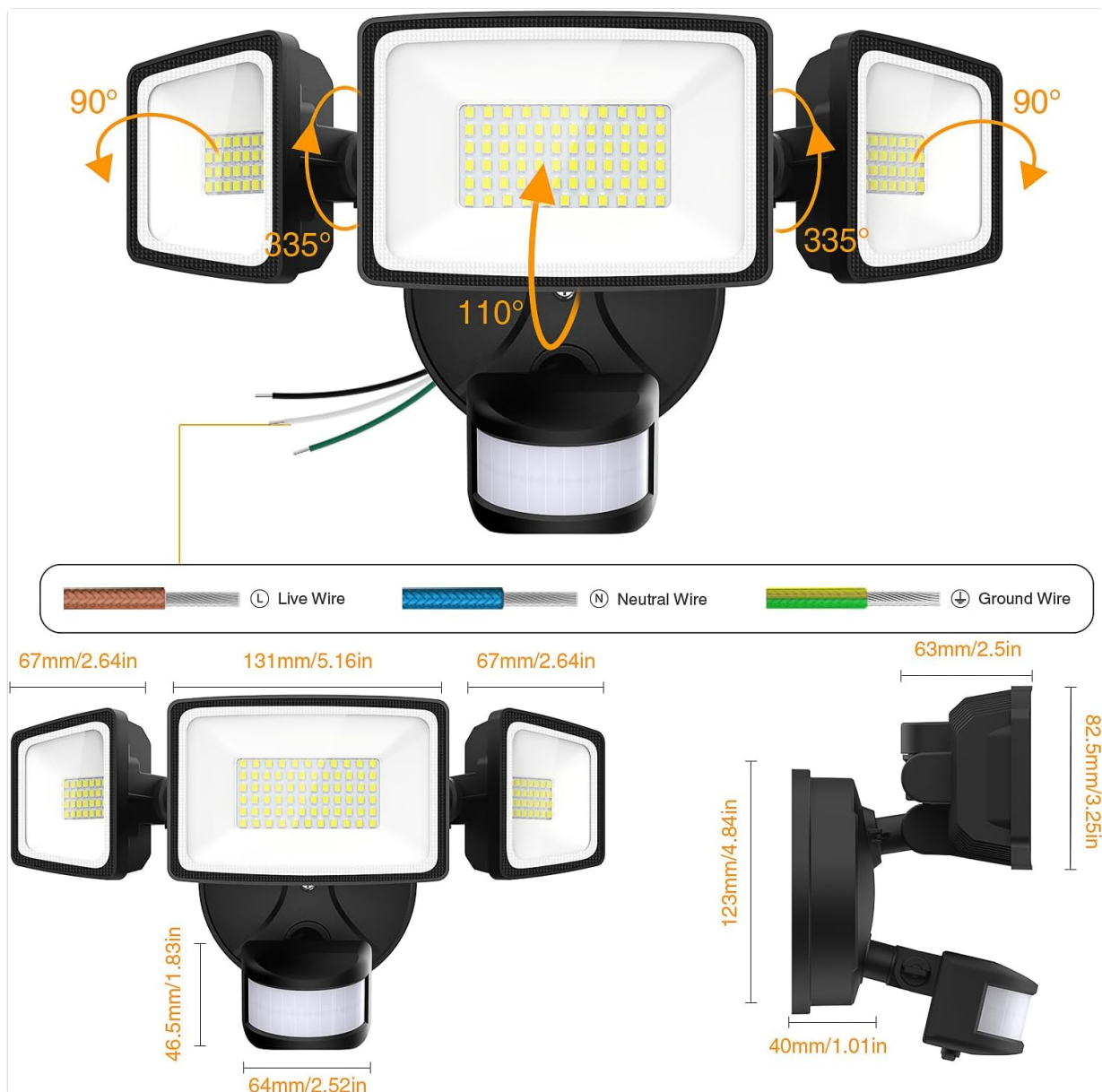
Wiring diagram and product dimensions.

5.3 Mounting Steps

1. Mark the drilling points on the wall or eave using the mounting bracket as a template.

2. Drill holes and insert appropriate wall plugs (if necessary).

3. Secure the mounting bracket to the surface with screws.

4. Connect the electrical wires as described in Section 5.2.

5. Attach the floodlight fixture to the mounting bracket and secure it.

6. Adjust the angle of the light heads and the motion sensor to cover the desired areas.

Avec objectif optique filtrant

Wall and eave mounting options.

6. OPERATION

The floodlight features a PIR motion sensor with three adjustable settings: TIME, LUX, and SENS.

Adjust PIR Motion Distance Range: 16.4ft-32.8ft

16.4ft

32.8ft
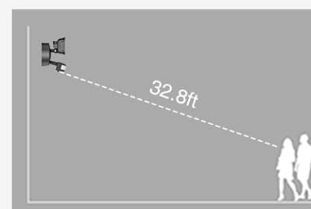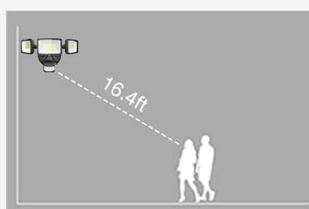
TIME

Adjust Lighting Time After Induction; Duration: 10s-7min

The shortest time is closed after 10 seconds

Closed after a maximum of 7 minute

10S OFF

7min OFF

LUX

Adjust the brightness that the sensor works with for automatic

Day

Night

Day

Night
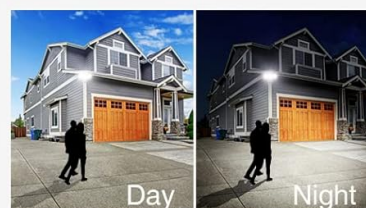
Motion sensor adjustment knobs for TIME, LUX, and SENS.

6.1 Adjusting Light Heads

The three light heads can be independently adjusted to direct light where needed:

- The central head can be moved vertically up or down (90°).
- The two side heads can be moved vertically up or down (90°) and rotated horizontally left or right (270°).

6.2 Motion Sensor Settings

Use the three rotary knobs on the motion sensor to configure its behavior:

- **TIME (Lighting Duration):** Adjusts how long the light stays on after motion is detected. The duration can be set from 10 seconds to 7 minutes. Rotate the knob clockwise to increase the duration and counter-clockwise to decrease it.
- **LUX (Ambient Light Sensitivity):** Determines the ambient light level at which the sensor becomes active.
  - Rotate towards the 'sun' symbol for 24-hour operation (day and night).
  - Rotate towards the 'moon' symbol for night-only operation (activates only in darkness).
- **SENS (Detection Sensitivity):** Adjusts the motion detection distance. Rotate the knob to increase or decrease the detection range, typically from 6 to 12 meters.

Motion sensor detection range (180°) and distance (6-12m).

6.3 Application Examples

The floodlight effectively illuminates outdoor areas such as driveways and entrances.

7. MAINTENANCE

- **Cleaning:** Periodically clean the floodlight's surface and sensor lens with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the power is off before cleaning.

- **Inspection:** Regularly check for any signs of damage to the housing, wiring, or mounting. If damage is found, disconnect power and have it inspected by a qualified technician.

- **No User-Serviceable Parts:** The LED light source is not replaceable. Do not attempt to open or repair the floodlight yourself.

Robust metal housing with heat sink fins for durability.

Efficient heat dissipation mechanism.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; LUX setting too low; Sensor not detecting motion.	Check power connection; Adjust LUX setting towards 'sun' for testing; Verify sensor is aimed correctly and SENS is adequate.
Light stays on continuously.	Continuous motion detected; LUX setting too high (always 'sun'); Wiring error.	Check for obstructions or constant movement in detection zone; Adjust LUX setting towards 'moon'; Consult an electrician to check wiring.
Light turns on during the day.	LUX setting too high (towards 'sun').	Adjust LUX setting towards 'moon' to activate only in darkness.
Light turns off too quickly/slowly.	TIME setting incorrect.	Adjust TIME knob to desired duration (10 seconds to 7 minutes).

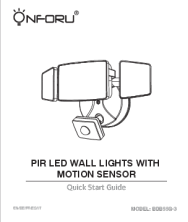| Problem	Possible Cause	Solution
Motion sensor range is too short/long.	SENS setting incorrect.	Adjust SENS knob to increase or decrease detection distance.
Light flickers.	Unstable power supply; Loose wiring connection.	Check power source stability; Ensure all wiring connections are tight.

9. WARRANTY AND SUPPORT
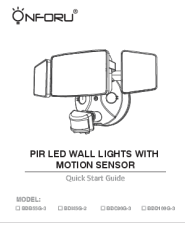
Onforu products are manufactured to high-quality standards. For warranty information, please refer to the terms and conditions provided at the time of purchase or contact Onforu customer support.

For technical assistance or inquiries, please contact Onforu customer service through their official website or the retailer where the product was purchased.

Related Documents - BDB55G-3

	Onforu PIR LED Wall Lights with Motion Sensor - Product Manual Comprehensive product manual for Onforu PIR LED Wall Lights with Motion Sensor, detailing model specifications, component lists, installation guides, operation instructions, and troubleshooting tips.
	ONFORU PIR LED Wall Lights with Motion Sensor Quick Start Guide - Models BDB55G-3, BDI45G-2, BDC80G-3, BDL40G-3, BDD100G-3 Quick start guide for ONFORU PIR LED Wall Lights with Motion Sensor. Includes installation instructions, specifications, dimensions, operation, and troubleshooting for models BDB55G-3, BDI45G-2, BDC80G-3, BDL40G-3, BDD100G-3.
	Onforu Smart Wireless Floodlight Camera BDB55SX-3 User Manual Comprehensive user manual for the Onforu Smart Wireless Floodlight Camera, model BDB55SX-3. Includes installation instructions, specifications, safety information, app operation, and troubleshooting.
	ONFORU BDB55G-3 PIR LED Wall Light with Motion Sensor - Quick Start Guide Quick start guide and technical specifications for the ONFORU BDB55G-3 PIR LED Wall Light with Motion Sensor. Includes installation, operation, safety information, and troubleshooting.

	[ONFORU PIR LED Wall Lights with Motion Sensor - Installation and Operation Manual](#) Comprehensive product manual for ONFORU PIR LED Wall Lights with Motion Sensor (Models BDB55G-3, BDB100G-3), covering installation, operation, specifications, and troubleshooting. Includes safety warnings and compliance information.
	[ONFORU PIR LED Wall Lights with Motion Sensor Quick Start Guide](#) Quick start guide for ONFORU PIR LED Wall Lights with Motion Sensor (models BDB55G-3, BDI45G-2, BDC80G-3, BDD100G-3). Covers components, parts, specifications, operation, preparation, installation, and troubleshooting.