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## Bolyguard BG310-M

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Model: BG310-M

## INTRODUCTION

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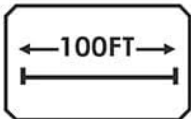
The Bolyguard BG310-M is a compact and advanced 4G LTE trail camera designed for remote monitoring and surveillance. This device captures high-resolution 18MP still images and 720P video recordings. Its integrated 4G module enables rapid transmission of captured media to a designated email address or mobile phone, even in areas with limited network signal strength. The camera's small form factor facilitates discreet placement, making it suitable for various outdoor monitoring applications. It supports the Molnus cloud service for convenient data management and can be powered by two 18650 lithium batteries (not included), with an option for solar charging to extend operational life.



18MP/HD 720P



Solar panel



Detection Range



940nm black IR



Figure 1: Front view of the Bolyguard BG310-M trail camera, highlighting its compact design and key features such as 18MP/HD 720P resolution, solar panel compatibility, 100ft detection range, and 940nm black IR LEDs.

## KEY FEATURES

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- **4G/LTE Connectivity:** Enables fast transmission of photos and videos.
- **Molnus Cloud Service Support:** For remote management and data storage.
- **High Resolution Imaging:** Captures 18 Megapixel still images and 720P video.
- **Extended Detection Range:** Detects motion and illuminates up to 100 feet.
- **Invisible Night Vision:** Equipped with 940nm LEDs for discreet nighttime recording.
- **Flexible Power Options:** Operates on 2\*18650 lithium batteries (not included) and supports external solar power.

## SETUP GUIDE

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Follow these steps to prepare your Bolyguard BG310-M camera for operation.

1. **Install Batteries:** Open the battery compartment. Insert two 18650 lithium batteries (not included) according to the polarity indicators. Ensure they are fully charged for optimal performance.

2. **Insert SIM Card:** Locate the SIM card slot. Insert a 4G-enabled SIM card with an active data plan. Ensure the SIM card is correctly oriented as indicated on the camera.
3. **Insert SD Card:** Locate the SD card slot. Insert a compatible SD card (up to 32GB, Class 10 recommended) into the slot. It is recommended to format the SD card using the camera's menu before first use.
4. **Attach Antenna:** Screw the provided 4G antenna onto the antenna port located on the top of the camera. Ensure it is securely fastened.
5. **Power On:** Switch the camera to the "SETUP" mode using the power switch. The internal screen will illuminate.
6. **Initial Configuration:**
  - Set the correct date and time.
  - Configure network settings (APN, server details) as required by your SIM card provider.
  - Set up your desired email address or phone number for photo/video transmission.
  - Adjust camera settings such as photo resolution, video length, PIR sensitivity, and shooting delay.
7. **Molnus App Setup:** Download the Molnus app on your smartphone. Register an account and add your camera by scanning the QR code or entering the device ID. This allows for remote control and viewing.



**Figure 2:** Side view of the Bolyguard BG310-M camera, illustrating the control panel with the screen and navigation buttons used for setup and configuration.

## OPERATING INSTRUCTIONS

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Once the camera is set up, you can begin monitoring.

1. **Switch to "ON" Mode:** After completing all settings in "SETUP" mode, switch the power switch to "ON". The camera will enter monitoring mode after a short countdown. The indicator light will flash and then turn off, indicating the camera is actively monitoring.
2. **Monitoring Modes:**

- **Photo Mode:** Captures still images when motion is detected.
- **Video Mode:** Records video clips when motion is detected.
- **Photo + Video Mode:** Captures a still image followed by a video clip upon motion detection.

Select your preferred mode in the camera's settings menu.

3. **Remote Control via Molnus App:** Use the Molnus app on your smartphone to:

- Change camera settings remotely.
- Request real-time photos.
- Check camera status (battery level, signal strength, SD card space).
- View captured photos and videos.

4. **Image and Video Retrieval:**

- **Via Email/Phone:** Photos will be sent to the configured email address or phone number immediately after capture.
- **Via Molnus App:** Access and download captured media directly from the app.
- **Via SD Card:** To retrieve all original high-resolution files, remove the SD card from the camera and insert it into a computer or card reader.

## MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your trail camera.

- **Battery Management:**
  - Check battery levels regularly, especially when using the camera in cold environments, as battery performance can decrease.
  - Replace or recharge 18650 lithium batteries as needed.
  - If using a solar panel, ensure it is clean and positioned to receive maximum sunlight.
- **Cleaning:**
  - Gently clean the camera lens and PIR sensor window with a soft, lint-free cloth. Avoid abrasive materials or harsh chemicals.
  - Keep the camera housing free from dirt, dust, and debris.
- **SD Card Maintenance:**
  - Periodically format the SD card using the camera's menu to prevent data corruption and ensure optimal recording performance.
  - Ensure the SD card is not full; delete old files or replace the card if necessary.
- **Firmware Updates:** Check the Bolyguard official website or Molnus app periodically for any available firmware updates. Follow the provided instructions carefully to update the camera's software.

## TROUBLESHOOTING

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Refer to this section for solutions to common issues.

**Camera does not power on:**

- Check if the 18650 batteries are inserted correctly with the correct polarity.
- Ensure the batteries are fully charged.
- Verify the power switch is in the "SETUP" or "ON" position.

**No images or videos are captured:**

- Ensure the SD card is inserted correctly and has sufficient free space.
- Format the SD card in the camera's menu.
- Check the PIR sensitivity settings; increase if necessary.
- Verify the camera is in "ON" mode, not "SETUP".

**Images/videos are not being transmitted:**

- Check the 4G signal strength displayed on the camera screen or Molnus app.
- Ensure the SIM card has an active data plan and sufficient credit.
- Verify APN and network settings are correctly configured for your SIM provider.
- Confirm the recipient email address or phone number is correct in the camera settings.
- Check your email spam folder.

**Poor image or video quality:**

- Clean the camera lens and PIR sensor window.
- Ensure the camera is mounted securely to prevent shaking.
- Check the camera's resolution settings.
- For night images, ensure there are no obstructions blocking the IR LEDs.

## SPECIFICATIONS

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Feature	Detail
<b>Model Name</b>	BG310-M
<b>Image Resolution</b>	18 Megapixels
<b>Video Resolution</b>	720p
<b>Connectivity</b>	4G/LTE, Wireless (Wi-Fi for local connection/setup, 4G for remote transmission)
<b>Detection Range</b>	100 feet
<b>Night Vision</b>	940nm Invisible IR LEDs
<b>Power Source</b>	2 x 18650 Lithium Batteries (not included), Solar Power Compatible
<b>Dimensions (L x W x H)</b>	8 x 4 x 13 cm
<b>Special Features</b>	Portable, Molnus Cloud Service Support
<b>Components Included</b>	Camera
<b>Manufacturer</b>	Bolyguard
<b>Recommended Use</b>	Surveillance

## WARRANTY AND SUPPORT

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Warranty information for the Bolyguard BG310-M camera is typically provided with your purchase documentation. Please refer to the warranty card or contact your retailer for specific details regarding coverage and terms.

For technical support, additional resources, or the latest firmware updates, please visit the official

Bolyguard website or contact their customer service department.