

XTREME XDG61007BLK

Xtreme Cables xRaptor XDG61007BLK Quadcopter User Manual

Model: XDG61007BLK

INTRODUCTION

Thank you for purchasing the Xtreme Cables xRaptor XDG61007BLK 6-Axis Quadcopter. This remote-controlled drone is designed for both indoor and outdoor flight, featuring a 6-axis gyro for stable flight and 360-degree functionality. It includes a built-in front-facing HD camera for capturing aerial photos and videos, stored on an SD card (not included). With multi-color LED lights for night flying and a 300 ft operating range, the xRaptor offers an engaging flight experience. Please read this manual thoroughly before operating the quadcopter to ensure safe and correct usage.

SAFETY PRECAUTIONS

- **Age Recommendation:** This product is recommended for users aged 14 and above. Adult supervision is advised for younger users.
- **Flight Environment:** Fly in open areas, away from people, animals, buildings, trees, power lines, and water. Avoid flying in strong winds or adverse weather conditions.
- **Battery Safety:** Use only the specified charging cable and battery. Do not overcharge or short-circuit the battery. Discontinue use if the battery shows signs of damage or swelling.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers. Always turn off the quadcopter and remote control before handling the propellers.
- **Visual Line of Sight:** Always maintain visual line of sight with the quadcopter during flight.
- **Water Exposure:** This quadcopter is not waterproof. Avoid exposure to moisture or rain.

PACKAGE CONTENTS

Please check the package to ensure all items are present:

- Xtreme Cables xRaptor 6-Axis Quadcopter with HD Camera
- Remote Control (2.4GHz)
- 4 x Extra Propellers
- 4GB Micro SD Card
- Micro SD Card Reader
- USB Charging Cable
- User Manual (this document)

COMPONENT IDENTIFICATION

Quadcopter Overview



Figure 1: Top-down view of the xRaptor Quadcopter. Shows the main body, four propellers (two green, two black), and propeller guards.



Figure 2: Side view of the xRaptor Quadcopter. Highlights the landing gear and the integrated HD camera module.

- **Propellers:** Four rotating blades that provide lift and thrust.
- **Propeller Guards:** Protective frames around the propellers to prevent damage.
- **Main Body:** Houses the flight controller, battery, and other electronics.

- **HD Camera:** Front-facing camera for photo and video recording.
- **Landing Gear:** Provides stable support for landing.
- **LED Lights:** Multi-color lights for orientation and night flying.
- **Battery Compartment:** Located on the underside of the quadcopter.
- **SD Card Slot:** For inserting the Micro SD card to store media.

Remote Control Overview

The 2.4GHz remote control features anti-interference technology for stable communication with the quadcopter. It typically includes:

- **Left Stick (Throttle/Yaw):** Controls altitude (up/down) and rotation (left/right).
- **Right Stick (Directional):** Controls forward, backward, left, and right movement.
- **Power Button:** To turn the remote control on/off.
- **Trim Buttons:** For fine-tuning flight stability.
- **Photo/Video Buttons:** Dedicated buttons for capturing media.
- **Flip Button:** Activates 360-degree flip maneuvers.
- **Indicator Light:** Shows power and pairing status.

SETUP

1. Charging the Quadcopter Battery

- Locate the rechargeable battery within the quadcopter's battery compartment.
- Connect the quadcopter battery to the provided USB charging cable.
- Plug the USB charging cable into a USB power source (e.g., computer USB port, USB wall adapter).
- The indicator light on the USB cable will typically illuminate during charging and turn off or change color when fully charged.
- Charging time is approximately 60-90 minutes for a full charge, providing up to 10 minutes of flight time.

2. Installing Remote Control Batteries

- Open the battery compartment on the back of the remote control.
- Insert 4 x AA batteries (not included), ensuring correct polarity (+/-).
- Close the battery compartment securely.

3. Propeller Installation

The xRaptor comes with pre-installed propellers. If replacement is needed:

- Identify the 'A' and 'B' markings on the propellers and the corresponding motor arms.
- Ensure you match the correct propeller type (A or B) to the correct motor arm. Incorrect installation will prevent proper flight.
- Gently push the propeller onto the motor shaft until it is secure.
- Ensure propeller guards are securely attached to the quadcopter frame.

4. Micro SD Card Installation

- Locate the Micro SD card slot on the quadcopter (usually near the camera).
- Insert the provided 4GB Micro SD card into the slot with the gold contacts facing down, until it clicks into place.
- To remove, gently push the card in again, and it will spring out.

OPERATING INSTRUCTIONS

1. Pairing the Quadcopter and Remote Control

- Place the quadcopter on a flat, level surface.
- Turn on the quadcopter's power switch. The LED lights will flash.
- Turn on the remote control's power switch.
- Push the left stick (throttle) all the way up, then all the way down.
- The quadcopter's LED lights will stop flashing and remain solid, indicating successful pairing.

2. Calibration

After pairing, it is recommended to calibrate the gyroscope for stable flight:

- With the quadcopter on a flat surface and paired, push both control sticks to the bottom-right corner simultaneously for a few seconds.
- The quadcopter's LED lights will flash rapidly and then become solid, indicating successful calibration.

3. Take-off and Landing

- **Take-off:** Gently push the left stick (throttle) upwards. The propellers will start spinning, and the quadcopter will ascend. Increase throttle to gain altitude.
- **Landing:** Slowly pull the left stick (throttle) downwards. The quadcopter will descend. Once it lands, pull the throttle all the way down to stop the propellers.

4. Flight Controls

- **Ascend/Descend:** Push the left stick (throttle) up or down.
- **Forward/Backward:** Push the right stick up or down.
- **Left/Right Sideways Flight:** Push the right stick left or right.
- **Rotate Left/Right (Yaw):** Push the left stick (throttle) left or right.
- **360-Degree Flips:** Press the dedicated flip button (refer to remote control diagram if available), then quickly push the right stick in the desired flip direction (forward, backward, left, or right).

5. Photo and Video Recording

- Ensure a Micro SD card is properly inserted into the quadcopter.
- **To take a photo:** Press the Photo button on the remote control. The quadcopter's LED lights may flash once to indicate a photo has been taken.
- **To start video recording:** Press the Video button on the remote control. The quadcopter's LED lights may flash continuously or change color to indicate recording is in progress.
- **To stop video recording:** Press the Video button again. The LED lights will return to their normal state.
- To access your media, power off the quadcopter, remove the Micro SD card, and insert it into the

provided card reader to view on a computer.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the quadcopter and remote control. Avoid using water or solvents.
- **Propeller Replacement:** If propellers are damaged or bent, replace them with the provided spare propellers. Ensure correct 'A' and 'B' propeller types are installed on the corresponding motor arms.
- **Battery Care:** Do not store the battery fully charged or completely depleted for extended periods. Charge it to about 50% for long-term storage. Remove batteries from the remote control if not used for a long time.
- **Storage:** Store the quadcopter and remote control in a cool, dry place, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Quadcopter does not respond to remote control.	Not paired; low battery (quadcopter or remote); remote control off.	Ensure both devices are on. Re-pair the quadcopter and remote. Charge quadcopter battery. Replace remote control batteries.
Quadcopter drifts or is unstable during flight.	Not calibrated; uneven surface during calibration; damaged propeller; strong wind.	Recalibrate on a flat surface. Check for and replace damaged propellers. Fly in calm conditions. Use trim buttons for minor adjustments.
Propellers spin but quadcopter does not take off.	Low battery; incorrect propeller installation.	Charge quadcopter battery. Verify 'A' and 'B' propellers are on correct motor arms.
Camera not recording or photos not saving.	No SD card; full SD card; SD card not inserted correctly; SD card error.	Ensure SD card is inserted. Check if SD card is full and delete files or use a new card. Reinsert SD card. Format SD card (on a computer) if issues persist.
Short flight time.	Battery not fully charged; aging battery; aggressive flying.	Ensure battery is fully charged. Battery life naturally decreases over time. Fly more conservatively.

SPECIFICATIONS

- **Model:** XDG61007BLK
- **Brand:** XTREME
- **Control Type:** Remote Control
- **Connectivity Technology:** 2.4GHz Wireless
- **Operating Range:** Up to 300 feet (91 meters)

- **Flight Duration:** Up to 10 minutes (approx. 0.17 hours)
- **Battery Type:** Rechargeable Lithium Ion (Quadcopter)
- **Remote Control Batteries:** 4 x AA (not included)
- **Camera:** HD (720p Video Capture Resolution)
- **Video Capture Format:** MOV
- **Media Type:** Micro SD, SD (4GB Micro SD card included)
- **Gyroscope:** 6-Axis
- **Features:** 360-degree flips, LED lights for night flying
- **Item Weight:** 1 Pound (approx. 0.45 kg)
- **Recommended Age:** 14+

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided on the product packaging or visit the official XTREME website. Keep your purchase receipt as proof of purchase.