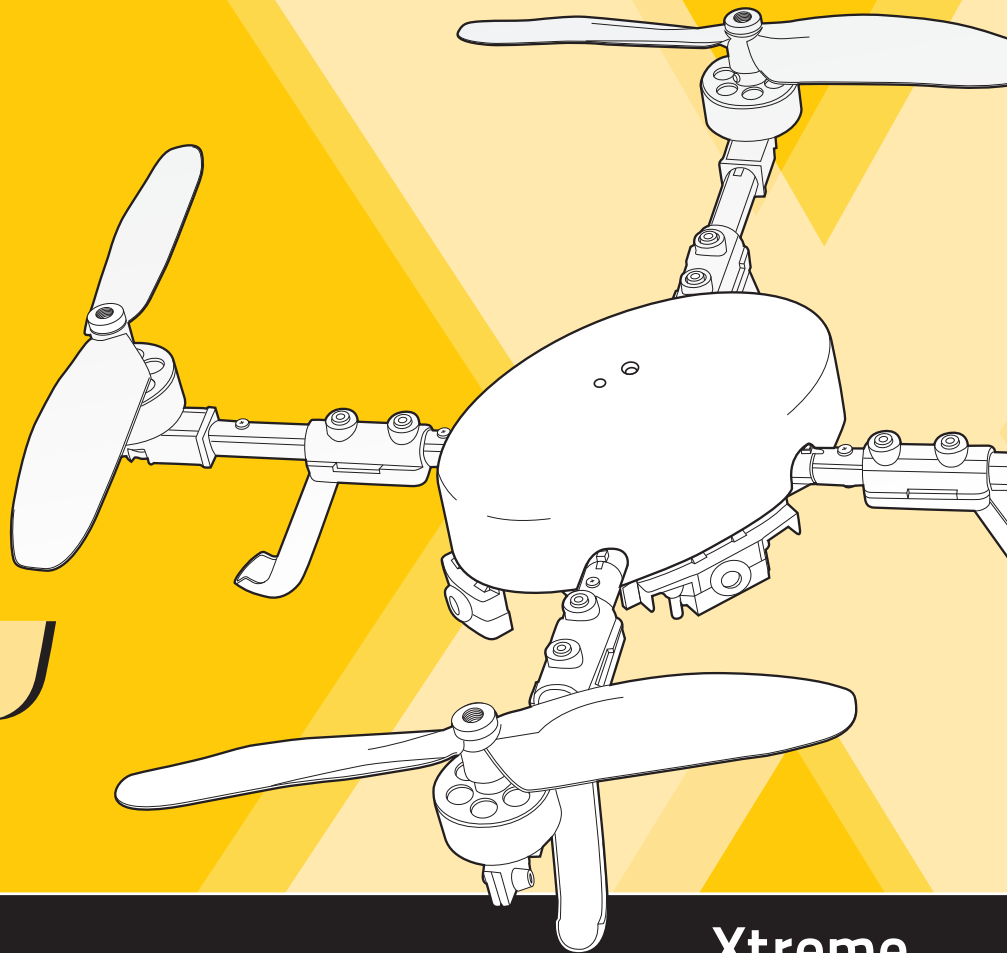


**RC**Logger®



**GB** Important Information

88007RC (Mode 1)

88008RC (Mode 2)

88009RC (ArF)



**Xtreme**

# 1. DOWNLOAD MANUAL



We regret having to inform you that the latest version of the operating instructions were not available at the time of shipment.

Please download the latest version of the operating instructions from our website at [www.rcllogger.com](http://www.rcllogger.com). Navigate to the product page and open the "Downloads" tab. Click on "Operating instructions" to start the download.



Fully read the operating instructions before using the product.



Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling in this manual, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

# 2. INTENDED USE

The »Xtreme is a toy model quad copter solely designed for private use in the model making area and the operating times associated with this. The »Xtreme is not suitable for other types of use, including commercial applications.

Any use other than the one described can damage the device. Moreover, this involves dangers such as short circuit, fire and electric shock, etc. Observe the safety information under all circumstances! The product must not become damp or wet.



This product is not a toy and not suitable for children under the age of 14.



Make this product available to third parties only together with its operating instructions.

For safety and approval purposes (CE), you must not rebuild and/or modify this product. If you use the product for purposes other than those described above, the product may be damaged. In addition, improper use can cause hazards such as short circuiting, fire, electric shock etc. Read the instructions carefully and keep them.

## 3. SAFETY INSTRUCTIONS

### 3.1 Persons/Product

- > The device is not a toy. Keep it out of the reach of children and pets.
- > Do not leave packaging material lying around carelessly. These may become dangerous playing material for children.
- > If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. Safe operation can no longer be guaranteed if the product:
  - » is visibly damaged,
  - » is no longer working properly,
  - » has been stored for extended periods in poor ambient conditions, or
  - » has been subjected to any serious transport-related stresses. The product must not become damp or wet. The »Xtreme uses delicate electronic components which are sensitive to temperature fluctuations and are optimised for a particular temperature range. Operating temperatures below 0°C must be avoided.
- > Do not place the product under any mechanical stress.
- > Handle the product carefully. Jolts, impacts or a fall even from a low height can damage the product.



**We strongly advise you refrain from stunts until you master the »Xtreme in normal flying conditions.**

### 3.2 Before commissioning

- > Before every flight check the functional reliability of your model and the transmitter. Watch out for any visible damage such as defective plug connections or damaged cables and wires.
- > All moving parts of the model must run smoothly but should not have any play in their bearings.
- > Before each operation check the correct and secure position of the propellers.
- > Charge the flight battery according to the steps provided in the operating instructions.
- > Ensure sufficient residual capacity [ battery tester (not included) ] of the batteries inserted in the transmitter. If the batteries are empty, always replace the complete set, never individual cells only.
- > Always switch on the transmitter first before connecting the battery to the »Xtreme.
- > Set the throttle to zero before connecting the battery to the »Xtreme. The rotors might run unintentionally!

### 3.3 During Operation

- > When the rotors are running, make sure that neither objects nor body parts are in the rotating and suction area of the propellers.
- > Do not take any risks when operating the model! Your own safety and that of your environment is solely down to you being responsible when dealing with the model.
- > Improper operation may cause serious injury and property damage! Therefore make sure to keep a sufficiently safe distance to persons, animals or objects during operation.
- > Select an appropriate location for the operation of the »Xtreme.
- > Fly the »Xtreme only if your ability to respond is unrestricted. The influence of tiredness, alcohol or medication can cause incorrect responses.

- > Do not direct your model towards spectators or yourself.
- > Motor, electronics and flight battery may heat up during operation. Wait 5 to 10 minutes before recharging or replacing the flight battery.
- > Never switch off the transmitter while the »Xtreme is in use. After landing, always disconnect the flight battery first. Only then may the transmitter be switched off.
- > In case of a defect or a malfunction, remove the problem before using the »Xtreme again.
- > Never expose the »Xtreme or the transmitter to direct sunlight or excessive heat for an extended period of time.
- > In the case of a severe crash (e.g. from a high altitude) the electric gyro sensors can be damaged and/or misadjusted. Therefore, full functionality must be tested before flying again without fail!
- > In the event of a crash, the throttle should be immediately set to zero. Rotating propellers may be damaged if they come into contact with obstacles. Before flying again, these should be checked for possible tears or breakages!
- > Observe the warn/safety signals emitted by the »Xtreme at all times to avoid damage (e.g. discharged battery).



It is strongly suggested to always inspect for damage. Replace defective parts immediately. Defective parts can impact properly working parts!

## 3.4 Batteries

### 3.4.1 General information

- > Correct polarity must be observed while inserting the batteries.
- > Remove battery from the »Xtreme after every flight. Remove the batteries from the transmitter if you do not use it for a longer period of time. Discharged batteries may leak.
- > Leaking or damaged batteries can cause acid burns when in contact with skin. Therefore use suitable protective gloves to handle corrupted and leaking batteries.
- > Batteries must be kept out of the reach of children. Do not leave the batteries lying around. There is a risk that children or pets may swallow them.
- > All batteries should be replaced at the same time. Mixing old and new batteries can lead to battery leakage and device damage.
- > Batteries must not be dismantled, short-circuited or exposed to fire. Never recharge non-rechargeable batteries. There is a risk of explosion!
- > Never mix regular batteries and rechargeable batteries!



Only use the supplied flight battery or a suitable spare battery from RC Logger.



Make sure the transmitter is turned on before connecting the battery to the »Xtreme.



Avoid unexpected startup. This can lead to serious injury and damage the »Xtreme.

### 3.4.2 LiPo batteries



After the flight, the LiPo flight battery must be disconnected from the »Xtreme.



Lithium is a highly reactive chemical element with a high energy density. In the case of overcharging, the LiPo rechargeable battery packs might catch fire or even explode. Therefore, LiPo rechargeable battery packs must always be put on a fire-proof surface for charging and the charging process must be supervised.



In no case must the maximum permissible battery pack temperature of +60°C be exceeded. Otherwise the rechargeable battery may explode!

#### 3.4.2.1 Hazards of LiPo flight batteries

- > Do not leave the LiPo flight battery connected when you do not use it (e.g. during transport or storage). Otherwise, the LiPo flight battery may be fully discharged. This would destroy it and render it unusable! There is also a danger of malfunction due to interference. The rotors could start up inadvertently and cause damage or injury.
- > Rechargeable LiPo batteries are very susceptible to moisture due to the chemicals they contain! Do not expose them to moisture or liquids. Risk of explosion!
- > Do not expose the charger or LiPo flight battery to high/low temperatures or to direct solar radiation. When handling LiPo batteries, observe the special safety information of the battery manufacturer!
- > Never charge the LiPo flight battery immediately after use. Always leave the LiPo flight battery to cool off first (at least 5-10 minutes).
- > Only use the supplied USB LiPo charger or the "RC EYE OneStation" (89041RC) to charge the flight battery.

- > Only charge intact and undamaged batteries. If the external insulation of the rechargeable battery is damaged or if the rechargeable battery is deformed or bloated, it must not be charged. In this case, there is immediate danger of fire and explosion!
- > Never damage the exterior of a LiPo flight battery. Never cut the covering foil. Never stab any LiPo flight batteries with pointed objects.
- > As the charger and the rechargeable LiPo flight battery both heat up during the charging procedure, it is necessary to ensure sufficient ventilation. Never cover the charger or the LiPo flight battery! Of course, this also applies for all other chargers and rechargeable batteries.
- > Remove the LiPo flight battery that is to be charged from the model and place it on a fire-proof support (e.g. a plate). Keep a distance to flammable objects.
- > Disconnect the LiPo flight battery from the charger when it is fully charged.
- > Chargers may only be operated in dry rooms. The charger and the LiPo flight battery must not become damp or wet.
- > Never take the rechargeable battery apart! The rechargeable battery may not be subjected to any mechanical strain! The contacts may not be short-circuited, as there is danger of fire and explosion!
- > Do not expose rechargeable batteries to fire, as there is a risk of explosion!
- > Keep rechargeable LiPo batteries away from children. Store rechargeable batteries in a dry, cool place.
- > If a rechargeable battery is deformed or damaged during a crash, it must no longer be used. The same applies for "swollen" rechargeable batteries, or rechargeable batteries with other visible deformation or leaks. Do not attempt to charge such rechargeable batteries! Danger of fire and explosion!
- > Dispose of rechargeable batteries in an ecologically sound fashion.
- > The general hazard notices for handling batteries and rechargeable batteries also apply for rechargeable LiPo batteries.

#### 3.4.2.2 Total discharge

- > Since discharging below 3.0 V per cell would lead to permanent damage of the rechargeable battery pack, this total discharging is to be prevented as far as possible.
- > For safety reasons, programmable cruise controls/flight control systems should be set in such a way that the undervoltage detection responds already at a voltage of 3.0 V per cell (Example: 3 cells = 9.0 V cut-off voltage). Alternatively, the optical undervoltage displays are also recommended.

#### 3.4.2.3 Correct dimensioning

- > As the current drawn rises, the battery pack warms and the usable capacity is lowered. The ideal operating temperature during discharge is between **+20** and **+40 °C** and must not exceed **+60 °C** even under extreme load.
- > The maximum short-time current that can be loaded to the battery pack is stated in the technical data sheets or can be read directly from the battery pack. The value “C” always refers to the capacity value of the respective battery pack.



#### Example:

A battery pack with a capacity of 2100 mAh and “20 C” can be loaded with 2100 mA x 20 = 42 A maximum.

- > However, the maximum permissible continuous current is clearly lower. If there are no precise manufacturer’s specifications, the battery pack should not be loaded with more than approx. 50 % of the maximum permissible surge current over a long term.

### 3.5 Miscellaneous

- > Consult an expert when in doubt about operation, safety or connection of the device.
- > Maintenance, modifications and repairs are to be performed exclusively by an expert or at a qualified shop.

## 4. PRODUCT SUPPORT

Visit <http://www.rclogger.com/index.php/contact-us> or call +852 2559 2662 for product support. Additionally visit our support forum at <http://rclogger.com/forum>.

## 5. LEGAL NOTES

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