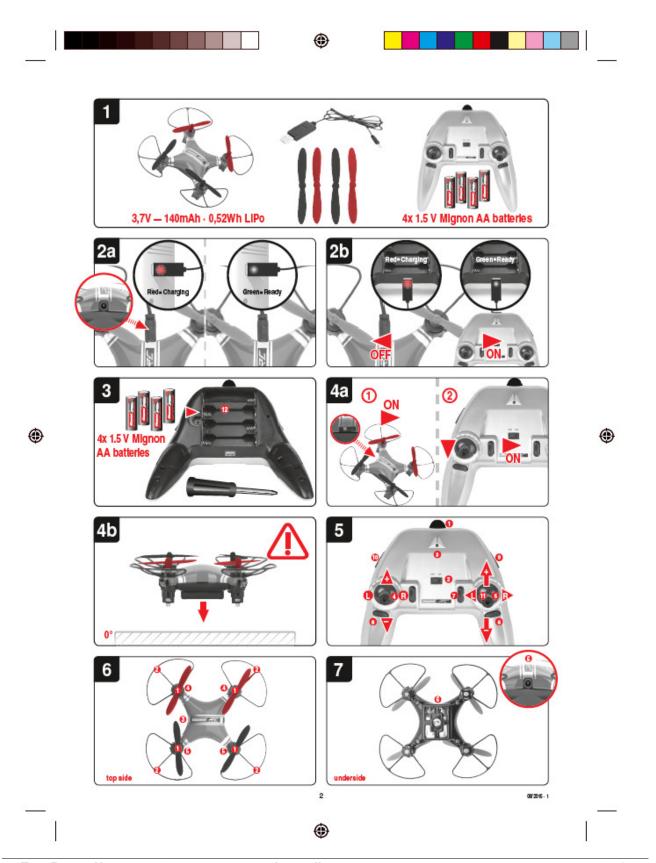


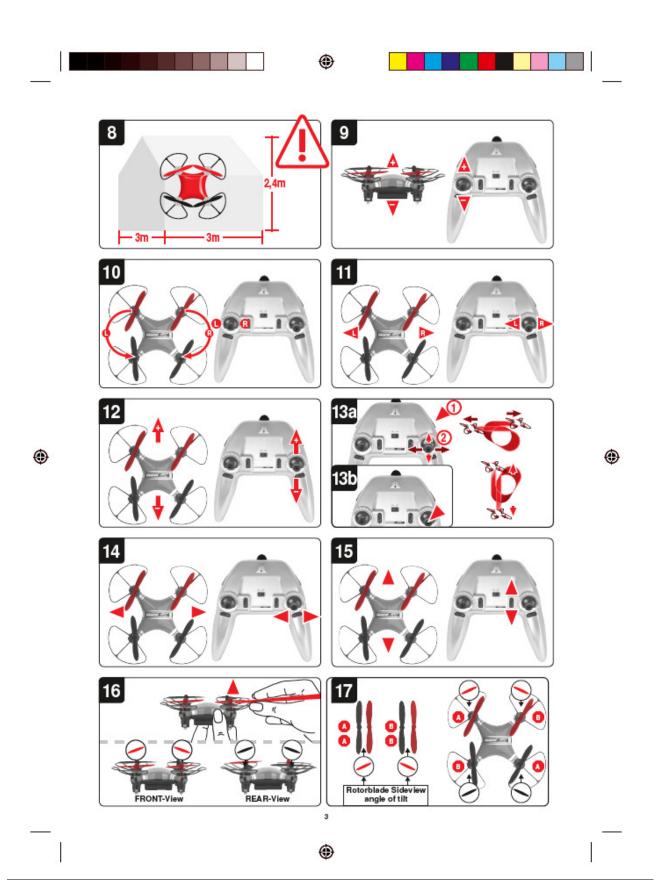
1.6 User Manual











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Dear customer

Congratulation! You bought a Carrera RC Quadrocopter which has been manufactured according to today's state-of-the-art technology. As it is our constant endeavour to develop and improve our products, we reserve the right to make modifications, either of a technical nature or with respect to features, materials and design, at any time, and without prior notice. For this reason, no claims will be accepted for any slight deviations in your product from the data and illustrations contained in these instructions. These operating and assembly instructions are an integral part of the product. Non-observance of these operating instructions and the safety instructions they contain will render the guar-antee null and void. These instructions are to be kept for future reference and in the event that the product is passed on to a third party.

For the latest version of these operating instructions and information on replacement and spare parts available, please visit carrera-rc.com in the service area.

Guarantee conditions

Carrera products are technically advanced products which should be handled with care. It is important to follow the directions given in the operating instruc-tions. All components have been subjected to careful inspection (technical modifications and alterations to the model for the purpose of product improvement are

Should any faults nevertheless occur, guarantee is assumed within the scope of the following conditions:

In accordance with the following provisions, Stadlbauer Mar-keting + Vertrieb GmbH (hereinafter referred to as "manu-facturer") warrants to the endconsumer (hereinafter referred to as "customer") that the Carrera RC-model-Quadrocopter (hereinafter referred to as "product") delivered to the cus-tomer shall be free from defects in material or workmanship for two years from the date of purchase (guarantee period). Such defects will, at the manufacturer's option, either be repaired by the manufacturer or fixed by delivering new or refurbished parts free of charge. The warranty does not cover failure due to normal wear and bar, (e.g. to batteries, rotor blades, cabin covering, gear wheels etc.), or damage as a result of improper handling/misuse or unauthorised interference. Any other customer's claims asserted against the manufacturer, especially action for damages, shall be

The contractual and statutory rights of the customer against the seller (supplementary performance, rescission of the contract, abatement, compensation) which exist with the product not having been free from defects at the time of the passing of risk, shall remain unaffected by this warranty.

Claims from this special warranty shall only be valid if: the defect reported has not arisen by damage caused by unintended use or misuse as specified in the instruction

- . the failure of the product is not due to normal wear and tear the product does not show any signs resulting from repairs or other interferences carried out by workshops not having
- the product has only been operated with accessories authorised by the manufacturer and

 the product is sent in together with the original proof of

been authorised by the manufacturer

purchase (invoice / receipt) and the completely filled in warranty card which has not been altered in any way.

Note for EU countries: Reference is hereby made to the seller's statutory guarantee obligation, to the extent that this guarantee obligation is not restricted by the product guar-

The manufacturer shall bear the costs for sending in and returning the product.

This warranty shall be valid to the extent aforementioned and under the above-named circumstances (including the sub-mittal of the original proof of purchase also in case of resale) for any future owner of the product.

Declaration of conformity

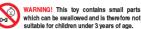
Stadlbauer Marketing + Vertrieb GmbH hereby declares that this model including the controller conforms with the fundamental requirements of the following EC directives: EC Directives 2009/48 and 2004/108/EC regarding electromagnetic compatibility and the other relevant regulations of Directive 1999/5/EC (B&TTE)

The original declaration of conformity can be requested from





Warning!



WARNING! Danger of pinching during operation! Remove all packaging materials and wire fastenings before handing the toy over to the child. For information and to answer any questions, please retain packaging, address and instructions in a safe place for future reference. Adult supervisors note: please check that the toy has been assembled in accordance with the instructions. Assembly should be carried out under the supervision

WARNING! Not suitable for children under 8 years old! This product is not intended for use by children without supervision of a parent. Flying the Quadrocopter requires skill and children must be trained under the direct supervi-sion of an adult. Read the user's information together with your child Before the first use. Inappropriate use may result in severe injuries and/or damage to property.

It has to be operated with care and caution and requires both mechanical and mental skills. The operating instructions contain notes on safety and technical regulations as well as information on maintaining and operating the product. It is indispensable to read these instructions thoroughly before the first usage. Only this helps to avoid accidents with inju-

ries and damage.

Only use the Quadrocopter in closed rooms which provide sufficient space and follow all instructions given

Hands, hair and loose clothing, including other objects such as pens and screwdrivers must be kept away from the propeller (rotor). Do not touch the rotating rotor. Especially take care that your hands DO NOT get close to the rotor blades : Risk of eye injuries. Do not fly near your fa

As user of this product you are solely responsible for handling it safely in order to ensure that neither you nor other persons or their property suffer damages or are

- · Never use your model with weak remote control batteries
- This toy is only designed to be used in a home environment. WARNING: Do not start up and fly when persons animals or any obstructions are within the flying range of the Quadrocopter.
- · Exactly observe the instructions and warnings for this product and for any possible additional equipment (battery charger, rechargeable batteries etc.) being used by you.
- Should the Quadrocopter come into contact with any living thing or solid object, immediately return the gas control to zero, in other words the left-hand joystick must be at the stop at the bottom of the slide!
- Avoid any moisture as this might do damage to the elec-
- Do not change or modify anything on the Quadrocopter

If you do not agree to these terms please immediately return the complete Quadrocopter model in new and unused condition to the retailer.

Important information concerning Lithium Polymer rechargeable batteries

Lithium-Polymer (LiPo) rechargeable batteries are sig-nificantly more sensitive than traditional alkali- or NiMH-rechargeable batteries normally used with radio control units. Therefore the instructions and warnings have to be observed in detail. In case of improper use of LiPo re chargeable batteries there is a danger of fire. Always follow the manufacturers' instructions if you dispose of LiPo rechargeable batteries.

Regulations on disposal for waste electrical and electronic equipment (WEEE)



This symbol, showing refuse bins with a cross through them, denotes that empty batteries, rechargeable batteries, button cells, rechargeable battery packs, equipment batteries, disused 운

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electrical equipment, etc. should not be disposed of in domestic refuse, as they are harmful to the environment and health. Please help to preserve environment and health and talk to your children about the correct disposal of used batteries and disused electrical equipment. Batteries and dis-used electrical equipment should be handed in to the usual collection points where they can be properly recycled.

Do not mix dissimilar battery types or employ new and used batteries together. Empty batteries should be removed from the product. Do not attempt to recharge non-rechargeable batteries.

WARNING

The charger unit and the USB cable may be used by children eight (8) years and upwards and by persons with with restricted physical, sensory or mental faculties, inexperience or lack of knowledge provided they are supervised or have been adequately trained in the safe use of the unit and have a proper understanding of the dangers it poses. Children ust not be allowed to treat the charger or the USB cable as a toy. Cleaning and user maintenance may only be carried out by children if they are over eight years old and super-

Children under eight years old must be kept away from the charger and the connecting cable. Never leave the battery unattended while it is charging. Exhausted batteries are to be removed from the toy. Rechargeable batteries should be removed from the product before charging. Supply terminal are not to be short-circuited. Only use the batteries recom-

mended or equivalent types.
If in regular use the charger must be examined for damage to the cord, plug, covers and all other parts. If any signs of damage are found the charger may only be used again after repair work has been completed.

FCC statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and

(1) his device mays focuse narmulu interterence, and (2) his device must accept any interference received, in-cluding interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.







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Guidelines and warnings for the use of LIPo rechargeable batteries

- You have to charge the attached 3.7 V 140 mAh LiPo schargeable battery in a safe place and at a safe distance to ferrimeble material.
- Never leave the battery unaffended while it is charging After a fight, the techangeable battery has to cool down to the ambient air temperature before charging it.
 You must always use the corresponding LiPo charging unit.
- (USB cable / remote control), in case of non-compliance with these directions there is a danger of fire resulting in a health risk and/or damage to property. NEVER use any other battery charger.

 Should the rechargeable battery swell or deform while
- discharging or eicharging, you have to immediately stop charging or discharging the battery. Tale the battery out as quickly and carefully as possible and place it in a safe and open see offside any inflammable make lial and walch if for all least 15 minutes. In case you confinue changing or dischanging a battery which has already started to swell or deform there is a danger of the! Even in case of sight deforming or ballooning the rechargeable battery has to be en out of operation.
- Store the rechargeable battery at ambient temperature in a.
- uy pase. A lways recharge the battery immediately after use to prevent its becoming deep discharged. Please make sure to allow a pause of about 20 minutes between fin-Ishing the flight and recharging the battery. Recharge the battery occasionally (suggested every 2-3 months). Failure to treat the battery as described above can lead to its becon
- When transporting or lemporally storing the rechargeable battery the temperature should be between 5 50°C. If pos-sible, do not store the battery or the model in a car and do not expose it to direct surright. In case the battery is broked it can be damaged or calch fire.

Note: If the battery voltage/output is low you will recognise that a considerable time and/or controlling is necessary to avoid that the Quarticopter starts functing. This usually occurs before reaching a battery voltage of 3 V and it is a good moment to end the flight.

Contents of package



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- 1x Quadrocopter 1x Controller
- 1x USB charging cable 1x Set of replacement of ment narts
- 4x 1.5 V Mignon AA batteries
- (non-rechargeable)

Recharging the LiPo rechargeable battery

Make sure you only charge the LiPo rechargeable bettery supplied with the LiPo charging unit also supplied (USB ca-ble and semote control). If you by to charge the rechargeable bathey with a different LiPo bathey charger or any other bal-tery charger, this might cause serious damage. Please caretuly read the previous chapter with warnings and guidelines on the usage of rechargeable batteries before proceeding. Supply terminals are not to be short-circuited.

The rechargeable battery fitted in the Quadrocopter with its USB charging cable can be charged either from a USB port on a computer or directly from the remote control:

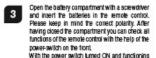


- Connect the USB charging cable with the USB port of a computer 23 or of the controller 23. The LED on the USE charger cable lights green indicating that the charger unit is correctly connecled to the computer or the controller. If you plug in a Quadrocopter with a discharged bat-try, the LED on the USB changing cable lights up led and shows that the Quadrocopter beflery is being charged. The USB charging cable and the charging societ on the Quadrocopter are de-signed to make incorrect connection impossible.
- It takes about 30 minutes to extrange a dis-charged battery (but NOT a deep-discharged one). When the battery is fully charged, the LED display on the USB charger cable lights up green again.

Note: when supplied, the lipo-battery is already partially charged. So the first charging cycle may well take less

It is essential to follow the connection sequence given above! If you have the charger cable only connected to the quadrocopier, and not to a source of electricity, a green LED display indicates that there is still power the battery. The green LED display does not necessal indicate the battery is still adequately charged. While charging the power switch must be in the "OF

Inserting the batteries in the remote control



correctly, the top centre LED on the remote con-trol will light up red.

When the control LED flashes rapidly, the batter

ies in the controller must be changed

Frequency bind between model and remote control

The Camera RC Quadrocopter and the remote control are frequency bound at purchase. If initially there are any problems with communication between the Camera RC Quadrocopter and the remote control, please carry out a new frequency bind.



- Switch the model ON at the ON/OFF switch.
 The LEDs on the quadrocopter light up continu-
- ously.

 Switch on the controller at the power switch.
- Push the left-hand joystick, i.e. the throttle lever, right to the top, then fully downwards into the zero position.
- The LEDs on the quadrocopter now flash rhyth-mically. The binding has now been success-fully established. The LED on the controller now lights continuously.



WARNING! Immediately after switching it on, place the Quadrocopter on a flat and level surface. The gyro-system will then set itself

Range of functions of the remote control

3

- 1. Aerial
 2. Power switch (ON/OFF)
 3. Control LED

 - 4. GBS
 - Circling 5. Forwards/backwards

 - right/ left banking 6. Trimmer for sight / left banking 7. Trimmer for towards/ bedwards 9. Trimmer for solation 7. Trimmer for towards/ bedwards
 9. Trimmer for totation
 9. Shoulder button for looping function

 - Shoulder button for LED
 Beginner/Advanced switch (to switch, press the top of the right-hand joystick)

12. Bate ty compartment

Description of the Quadrocopter



- Rotor system
 Rotor protection cage
 ON-YOFF switch
 - 4. Red LED
- 6. Charging societ for the Li-Po battery

Choosing the flight area



When being prepared for the first flight you should choose a closed room which is as large as possible without any persons or obstacles. Due to its size and controllabilty, experienced pilots may be able to fly the Quadrocopter in relatively small rooms. For your first flights we strongly recommend you choose a room with a minimum floor space of 3 x 3 metres and 2.40 metres in height. After having frimmed your Quadrocopier for flight and nade yourself familiar with the control-ler and its functions you may start flying in smaller and less open environments.

The Custrocopier has been developed exclusively for use in enclosed rooms without direct sunlight or any strong spotlighting. There must be no persons or ob-jects such as pillars between the controller and the Quadrocopier to obstruct direct connection.

Checklist for flight preparation

This checklist is not a substitute for the contents of the oper-Insidewes, a finit a successor in the seed as a quick-staff-guide, we strongly accumently out first to seed the operating instructions in detail before you proceed.

- Connect the charging unit to the source of power.

 Charge the lipo-battery as described in the section
 "Recharging the LiPo exchargeable battery".

 Fit four AA batteries in the controller, making sure their polarity is correct.
- Look for a suitable environment for fiving Switch on the model at the ON/OFF switch.
- WARNING Immediately after switching it on, place the Quadrocopter on a flat and level surface. The gyro-system will then set itself automatically.
- The LEDs on the Quadrocopter now light up continuously.
 Switch on the controller at the power switch. Push the left-
- hand joystick, i.e. the throttle lever, right to the top, then tuly downwards into the zero position.

 Allow the Quedrocopter a lew moments until the system is
- correctly initiatised and is ready for operation. The LED in the Quadrocopter now lights continuously. The LED on the controller now lights continuously. Repeat the above points as required, if youwish to fly more

- sick, inservent los a obube signa tore (see £3.

 Check the control system.

 Make yourself familiar with the control system.

 Tim the Cusdrocopler as necessary as described under

 Tim 13. so that when hovering it no longer moves from
 the spot without a command from the controller.

 The Cusdrocopler is now ready to be flown.

 If the Cusdrocopler displays no functions, retry the abovehistoric operation.

- binding procedure.

 By the model.
- Land the model.
- Switch the model off at the power switch
- Always switch off the remote control last.



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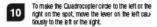


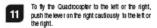
alarly in the first few flights to move Take care partic the lever on the controller very gently and not over-hurriedly. As a rule, only very small movements of the respective levers are necessary to carry out the desired

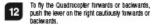
If you notice that the Quadrocopler moves towards or to the sidewithout your louching the respective lever, please adjust the frim of the Quadrocopler as described in (11) 113 113.



4/- Gas (up/ down)
To start or to fly higher, push the gas lever on the left cautiously forwards. To land or fly lower, push the gas lever on the left cautiously backwards.







Looping function

WARNING! ONLY FOR EXPERIENCED PILOTS!



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When you piess the looping button, an audible signal sounds until you move the right-hand jaystick either up or down, or right or left. The Cuadrocopter then carries out the loop or roll in the respective direction. Before you do this, make sure you have ample room on all sides (about

Beginner/Advanced switch

MARNING! "ADVANCED" FLYING MODE IS ONLY FOR



Press down vertically on the right-hand joystick to switch between beginner and advanced mode. Standard setting when switching on is the begin-

Standard setting - beginner mode Signal sounds once on switching over Looping the loop and rollovers are possible as explained in 1371.

Advanced mode - 3D mode

The Quadrocopter reacts much more sensitively to control movements in "advanced" than in "beginner mode. Signal sounds twicw on switching over. Looping the loop and rollovers are possible as explained in [65].

then have sing, if the Quadrocopter flies to the left or right without you moving the lever for lett/ light movement, please proceed as follows:

If the Quadrocopter moves on its own fast or slow sideways to the left, press the lower right trimmer for right/ left tilt in steps to the right. If the Quadrecopter moves right, press the trimmer for right/ left filt in steps to the left.

When hovering, if the Quadrocopier fles towards of bedowards without you moving the lever for forwards or beckwards movement, please proceed as follows:

If the Quadrocopler moves on its own tast or slow forwards, piess the upper right himmer for forwards / becliwards in steps downwards. If the Quadrocopter moves bedwards, press the trimmer for forwards / backwards in sleps upwards.

When hovering and without you moving the lever tor circling on the spot, if the quadrocopter rotales to left or right, proceed as follows: if the quadrocopter rotales quickly or slowly to the left around its own axis, pless the trimmer for rotation below 16 left in steps to the right. If the quadrocopter rotates to the right, press the frimmer for rotation in steps to the left.

If the Quadrocopte roan no longer be set to 'neutral' by pressing the trimmer, please carry out the following instructions: 1. Place the Quadrocopter on a flat horizontal surface.

2. Bind the Quadrocopter and the Controller as described in

2. Bind the Gudanosaper and the Controller².
3. Simultaneously press the gas lever and the forwards/teverse lever to the lower right-hand comer. The LED on the Quedrocopter flashes briefly and then lights continuously.

4. The neutral setting is now completed.

Changing the rotor blades



Use a smooth narrow object to help draw off a rofor blade if necessary. Make sure that you draw the rotor blade with great care vertically upwards, and hold the motor from below to stabilise it.



WARNING

Be sure to note the marking and colour, also the fit Be sule former the maning allow angle of the rotor bladed Pront left: ed — marking "A" Pront right: red — marking "B" Rear left: black — marking "A" Rear left: black — marking "B"

Troubleshooting

Problem: Pernole control does not work.

Cause: The ON/OFF-power switch is furned "OFF".

Solution: Turn the ON/OFF-power switch "ON". Cause: The befleries have been wrongly inserted.

Solution: Check if the betieres have been correctly inserted. Cause: The bafferies do not have enough power Solution: Insert new batteries.

Problem: The Quadrocopter cannot be controlled with the

remote control

The power switch on the reomote control is turned

Solution: First turn the power switch on the remote control

Solution: Hist turn the power switch on the remote scalars 'Oric'.

Cause: The remote control is possibly not correctly frequency bound with the receiver on the Quediccopter.

Solution: Pase carry out the binding procedure as described in "Checklet for flight peparation".

Problem: The Guadrocopter does not lift. Cause: The rotor blades rotate too slowly. Cause: The rotor blades rotal Solution: Push the throttle up. The battery's power is not sufficient. on: Charge the battery (see chapter *Charging the battery*).

Problem: During flight, the Quadrocopter loses speed and height without any obvious leason.

Cause: The beflery is loo weak.

Solution: Charge the battery (see chapter *Charging the bat-

Problem: The quadrocopter only flies in a circle or turns

over on starting.

Cause: Rotor blades incomedly filled or damaged.

Solution: Fit rotor blades / replace rotor blades as described in [77] [18].

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