



TRIDENT



**TRIDENT
USER MANUAL**



www.cutacopter.net
www.cuta-copter.co.za

QUICK START TIPS

1. Immediately charge battery. Do not try to use with a low battery, even if you are just checking it out with the APP.
2. DO NOT fly in a confined space like a backyard or driveway.
3. DO NOT fly less than 20M height when testing with a load. When releasing the load, the drone will descend slightly, and you may need to add some power.
4. Stay 30M clear from all obstacles.
5. Only use 80% of rated lift power to have some reserve power for emergency. Do not overload the craft to “just check it out”
6. Read the user guide completely to understand all the risks and responsibilities.
7. By operating the Cuta-Copter, you acknowledge that you have read the user guide, terms and conditions and that you fully understand all safety requirements and risks.
8. Use the logbook below **before** using for fishing.

THANK YOU VERY MUCH FOR PURCHASING THE TRIDENT FISHING DRONE AND WE HOPE YOU HAVE HOURS OF ENJOYMENT.

Cuta Copter the fishing drone pioneer have been making the most robust and reliable drones on the Planet since 2014 – You can be assured of the quality, performance and customer service.

CUTA-COPTER

The Innovator – Not an Imitator

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ABOUT THIS MANUAL

This Manual, read in conjunction with viewing on-line tutorials, provides the information needed for you to own and operate your Cuta-Copter.

It is important that you read this manual cover-to-cover before you attempt to operate your Cuta-Copter.

Re-read sections as you progress through the set-up to operate phases. View the on-line tutorials to enhance your understanding.

This manual covers:

- Owning Your Cuta-Copter – an overview of your legal and other obligations and an outline of the operating and safety features of the Cuta Copter that makes it a very special fishing drone.
- What' s in the Box – a brief description of what comes with the Cuta-Copter and their use.
- Setting Up – details of how to set up your Cuta-Copter for use
- Your Li-Po Battery and its Safety – details on the safe use and storage of the battery that powers the Cuta-Copter
- Pre-flight Essentials – details two key activities that must be completed before your Cuta-Copter takes its first flight
- Flying Your Cuta-Copter– Remote controller information, instructions for take-offs, flying and landings, and some key Always Dos and **Never Dos**
- Fishing with your Cuta copter – detailed guide to get you started
- Maintaining Your Cuta-Copter– details of the routine maintenance needed to maximise the life of your Cuta-Copter.
- Warranty Terms and Conditions – What' s covered and how to make a claim
- Specifications

OWNING YOUR CUTA-COPTER

About This Section

This Section provides general information about your Cuta-Copter. It also outlines your safety and legal obligations when operating your drone.

It includes:

- Your legal obligations
- Your safety obligations
- Your maintenance obligations
- The advanced operational and safety features of your Cuta-Copter

Disclaimer

Before using this product please ensure you read this operating manual and watch the instructional videos carefully and completely.

Take care to strictly follow the instructions contained in this manual to setup and use this product, paying special attention to warnings and safety precautions to avoid personal injury.

The control system will record all data including, factory parameter setting changes and flight time. Any adjustments to factory settings will not be covered under warranty - Use extreme caution.

Your Legal Obligations

Only operate the drone according to your local country rules. It is your obligation to understand the rules in your local country.

Some examples of the Aviation authorities are –

South Africa, South African Civil Aviation Regulations - <http://www.caa.co.za>

New Zealand, Civil Aviation Authority - <https://www.aviation.govt.nz/drones/>

United States, Federal Aviation Administration - <https://www.faa.gov/uas/>

Australia, Civil Aviation Authority - <https://www.casa.gov.au/knowyourdrone/drone-rules>

The seller of your Cuta-Copter holds no latent obligation to you or others if you operate your Cuta-Copter contrary to your legal obligations.

Once you have used this product, it is deemed that you fully understood and accepted the contents of this manual. In the event of improper use and/or setup of the product, Cuta Copter will not accept any liability for damages or compensation.

Your Safety Obligations

The carbon fibre rotor blades on your Cuta-Copter are hard and sharp. They could cause severe injuries to people, animals or property if contacted at flight speed.

Do not fly your drone near, or over, people, animals of property.

Inspect your rotor blades before every flight and do not attempt to fly with damaged rotor blades.

The seller of your Cuta-Copter holds no latent obligation to you or others if you operate your Cuta-Copter in a way that injures people or animals or damages property.

Recklessness

Please avoid reckless flying like low level flying, high speed flying, racing the bait out. Always climb vertically to 25 metres before flying your bait out.

Never under any circumstance attempt to attach the bait when the drone is flying and never attempt to catch the drone in flight.

Wind Speed

Never attempt to fly the drone in winds where you have no experience. Start flying your drone on a calm day of wind speeds no greater than 20kph.

Pilot ability

The more you use the drone, the better your flying skills will become. Practice in Alt Hold mode to upskill yourself. No GPS system is 100% reliable, so in the event of a GPS glitch or magnetic interference -- you will need to manually pilot the drone without the aid of GPS.

Over loading

Do not use a bait load in excess of the maximum limit. For safety we recommend never exceeding 80% of the max load ratings - Pilot skill is required when weight loads increase. Exceeding the weight ratings for your drone is dangerous and will void your warranty.

Cuta Copter takes safety very seriously and all flight data is recorded - Black box.

Your Operating Obligations

While your Cuta-Copter has many in-built safety features, safe operation of your Cuta-Copter requires you to have the skills, knowledge, and experience to operate the drone in the prevailing conditions.

You should not operate your Cuta-Copter until you have thoroughly read this manual and understood its content.

The manual (section 'Flying your Cuta Copter') recommends that you undertake a minimum level of practice before you operate your drone over water. Please heed this recommendation, at a minimum. Please undertake further training and practice if you are new to drone flying or plan to use your drone in challenging conditions.

The seller of your Cuta-Copter holds no latent obligation to you or others if lost occurs due to you operating your drone in conditions beyond your level of skill, knowledge, or experience, or if you exceed the drone's specifications.

All flight data is recorded - Black Box

Your Maintenance Obligations

Your Cuta-Copter requires minimal ongoing maintenance. However, some maintenance is recommended in this manual, especially if your drone contact's water. Intentional landing on water is not covered under warranty.

Regular inspection of the battery that powers your drone is also recommended – see LiPo battery maintenance page 14.

It is your responsibility to undertake the recommended inspections and maintenance.

The seller of your Cuta-Copter holds no latent obligation to you or others if you do not undertake the recommended inspections and maintenance to your Cuta-Copter.

All flight data is recorded - Black Box

The Advanced Features of Your Cuta-Copter

We consider the Cuta-Copter to be best-in-class of available recreational fishing drones.

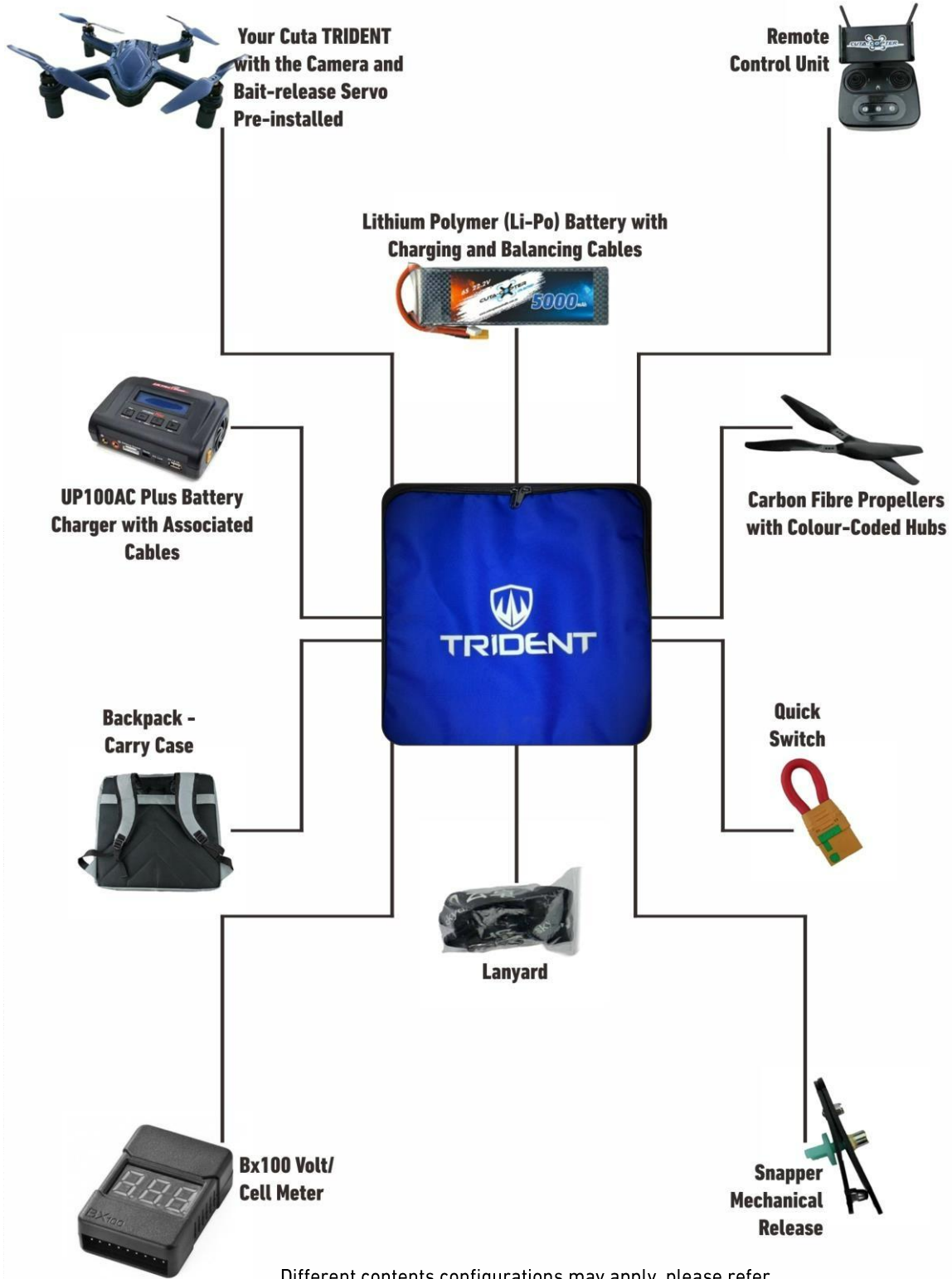
Your Cuta-Copter has:

Performance Features	
Pixhawk 4 Mini Controller	The Pixhawk 4 mini, is one of the most advanced flight controllers on the market. The Pixhawk 4 mini features a 32-bit ARM Cortex® M7, 216 MHz Processor with 2mb flash memory and 512kb RAM. The processor's speed

	yields supreme flight stability. This is especially noticeable when carrying baits in windy conditions. In addition to the onboard magnetometer and barometer, it has two Gyroscopes, two compasses and two accelerometers giving the Cuta a high level of operational redundancy.
Advanced GPS	The advanced PIXHAWK 4 GPS enables concurrent reception of up to three Global Navigation Satellite Systems. This ensures maximised position location accuracy and reliability.
SkyDroid T10 10ch Radio	This high-quality radio is fitted with sand covers over the gimbals to improve the weather resistance. Flush mounted buttons and low-profile toggle switches have been used to prevent damage. The 2x 18650 lithium batteries provide greater than 20 hours radio time on full charge. The SkyDroid T10 has a maximum transmission distance of 1500m, far more than the drone's factory-set geofence distance of 500metres.
APP Control	The Android APP allows special flight conditions such as control panel control of landing and take-off, Waypoint missions, and follow-me modes. The APP enables drone parameters to be changed wirelessly.
Water Proofing	The Cuta TRIDENT main electronics bay located in the canopy is waterproof.
Flotation	Your Cuta TRIDENT has flotation material installed internally. In addition the landing feet provide addition flotation.
Quick Switch	The Quick Switch provides positive power isolation to the drone with easy access at the back of the unit.
Real-time Video Streaming	Your Cuta is equipped with a HD 720p digital reef spotting camera which has a real time video transmission up to 1000 metres. Camera settings like resolution, brightness, contrast, and saturation can all be adjusted through the APP. The TRIDENT model has a single axis gimbal – model dependent.
Click to Save	Enables DropZone GPS position to be saved with the click of a switch for repeated bait and burley drops to the GPS coordinates.
Follow-Me Mode	In this mode, the drone will follow the location of the Remote-Control Unit/Control Panel.
Come-To Me Mode	This feature allows the drone to land (RTL) at the location of the pilot and not at the take-off point. This function is useful when using the drone from a boat which has drifted away from the original take-off co-ordinates. This mode is called 'Come to Me' in SkyDroid Tower APP.
Single Compass Calibration	In normal use, the Cuta Copter needs to have its compass calibrated only once. Many other drones require frequent compass calibrations.
Waypoint Programmed Bait Drops	The SkyDroid Tower APP supports automatic user-defined waypoint bait drops. Waypoints are easily setup through the APP and multiple waypoints can be saved.

Safety Features	
APP Display and Voice Warnings	Visual and voice messages are broadcast to keep the pilot informed about all aspects of the flight. The system will warn you by voice and display that the battery is low, voltage level, GPS Glitch, when magnetic interference is detected, Loss of GPS, and when flight modes are selected.
Thrust Loss Detection	The Cuta APP will report thrust loss - power is not available - The bait release will be activated in time - It is strongly recommended that the user immediately release bait 'B' button when reported.
Self-Protect Low Battery or Loss of Signal	The Cuta will automatically release a bait and return home when it detects a low battery level or if signal to the Control-Panel is lost.
Low Power Launch Prevention	The Cuta will not take off if there is insufficient power in the battery to sustain a flight.
Anti-pendulum Operating Mode	The POS.HOLD mode has controlled de-acceleration to assist in limiting the degree to which a pendulum motion can occur with the bait. This reduces the potential for flight instability to be caused by swinging of the bait and tackle load. Caution must be used in the mode due to its delayed response. Higher speeds are available in this mode if you need more power in a head wind.
GPS Recovery	You will be notified verbally through the APP if your Cuta suffers loss of GPS connectivity. The flight mode will automatically switch from Loiter or POS HOLD mode to ALT HOLD Mode to avoid losing the drone. This, however, requires the operator to take full control of the drone and we strongly advise the user to upskill in ALT HOLD mode.
Landing Detection	The landing detect feature during RTL Mode will shut off the motors as soon as the drone detects a landing. Motors will also be shut off if it detects a crash. For normal landing, it is required to hold the left stick down. Do not move the right stick once the drone is on the ground.
Geo-fencing	Although the Cuta can operate at up to 1.5kms from the Control Panel, the CUTA has factory-set geofence limits of 500 metres distance and 40 metres altitude. These geofence settings allows enough battery time for the drone to return safely when the low battery self-protect function is enabled.
Magnetic Interference Detection	You will be verbally advised through the APP if magnetic interference is detected. The CUTA will also attempt to adjust for the interference. If Magnetic interference reaches an unsafe level the Cuta will switch to ALT HOLD mode and we strongly advise the user to upskill in ALT HOLD mode.
Flight Recording	The Cuta has sufficient computing power to retain lifetime recording of all flights and operations – 'The Blackbox'

WHAT'S IN THE BOX



Different contents configurations may apply, please refer to the actual configuration list at the time of purchase.

GETTING SET UP

About This Section

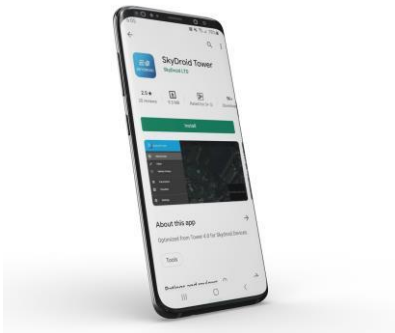
This Section provides instructions on how to get set up to operate your Cuta-Copter. It includes:

- Control Panel Device
- Downloading the SkyDroid APP
- Activating Voice Commands
- Pairing Your Android Device to the Remote Controller
- Optimising the SkyDroid Settings
- Accessing Maps
- Attaching the Propellers
- Reading This Manual
- Watching the Instructional Videos

Control Panel Device

The Cuta-Copter interfaces through the SkyDroid APP. This APP is *only* available as an Android down-load. Accordingly, you will need an Android-powered device – either a mobile phone or compact tablet. These are not supplied with your drone.

Downloading the SkyDroid APP



The required SkyDroid App is not available on the Play Store – Only download the APP from the link below and follow the instructions to enable your mobile phone or tablet to download the APP.

The SkyDroid APP can be downloaded from:

<https://cutacopter.net/kb-category/apps/>



Pairing Your Android Device and the Remote Controller

To pair your Android device to the remote controller: go to Blue Tooth settings on your Android device, locate T10 (which is the remote controller, press 'enter' and then enter the password 1234.

Please watch Videos – How to Pair the APP to Device and APP Connection Settings via the resources section at <https://cutacopter.net/kb-category/how-tos/>.

Activating Voice Commands

The SkyDroid APP factory-settings will not automatically activate voice commands.

You will therefore need to activate the voice commands by going to SETTINGS on your Android device and clicking 'Enable Speech Output'.

Please watch Video – APP Setup and recommended settings located in the resources section - <https://cutacopter.net/kb-category/how-tos/>.

Optimising the SkyDroid Tower APP Settings

While the SkyDroid Tower APP factory-settings will allow you to successfully fly your Cuta-Copter, adjustments to the settings are recommended to achieve an optimum flying experience.

Start by pressing the icon with three horizontal bars at the top left corner of the SkyDroid Tower APP.

Then scroll down and press the Settings icon.

Work through the Settings menu and adjust settings to: Please watch video APP Setup and recommended settings

First Level	Second Level or Setting	Third Level or Setting	
User Interface	Widgets Preferences	<input checked="" type="checkbox"/> Flight Timer	
		<input checked="" type="checkbox"/> Diagnostics	
		<input checked="" type="checkbox"/> Speed and Attitude Info	
		<input checked="" type="checkbox"/> Geo Info	
	Enable map rotation	<input checked="" type="checkbox"/>	
	Realtime camera footprint		
	Enable zoom to fit	<input checked="" type="checkbox"/>	
	Unit System		<input checked="" type="radio"/> Metric
	English as UI Language	<input checked="" type="checkbox"/>	
	Enable Speech output	<input checked="" type="checkbox"/>	
	Periodic Telemetry Status Report	Period	<input checked="" type="radio"/> 30 Seconds
		Battery Voltage	<input checked="" type="checkbox"/>
		Altitude	<input checked="" type="checkbox"/>
Airspeed		<input type="checkbox"/>	

		Signal Strength <input checked="" type="checkbox"/>
	Keep Screen On <input checked="" type="checkbox"/>	
	Lock Screen Orientation <input type="checkbox"/>	
Advanced Settings	Display Satellite HDOP <input type="checkbox"/>	
	Enable Kill Switch <input type="checkbox"/>	
	Enable Vehicle Specific Icons <input type="checkbox"/>	
	Max Altitude value	29.0 m
	Min altitude value	15.0 m
	Default altitude value	20.0 m
	Mission editor default speed	5.0 m/s
Send Usage Statistics	<input checked="" type="checkbox"/>	

Accessing Maps

Google Maps will automatically be accessed if your Android device is network-enabled through a SIM card.

Or you can connect your Android device to a network-enabled device through the Personal Hotspot setting on your phone.

GPS drone location search - If your drone is lost over land Long Press the GPS Co-ordinates in the APP - These coordinates can be pasted into MAPS for drone recovery.

Attaching the Propellers

The Cuta-Copter propellers have colour-coded hubs – two are bronze-coloured, the other two are silver.

The silver-coloured hubs have a normal right-hand thread; the bronze hubs have an opposite, left-handed thread.

Attach the propellers to the motors with matching colour-codes.

You do not need to screw the propellers on too hard; the action of the motors will naturally tighten the propellers to the required tension – just nip them up.

Reading This Manual

Before using this product, please ensure you read this operating manual and watch the instructional videos carefully and completely.

Take care to strictly follow the instructions contained in this manual to setup and use this product, paying special attention to warnings and safety precautions to avoid personal injury.

Once you have used this product, it is deemed that you have fully understood and accepted the contents of this manual. In the event of improper setup and/or use of the product, Cuta Copter Australia will not accept any liability for damages or compensation.

Watching the Instructional Videos

Instructional videos are available on-line at <https://cutacopter.net/kb-category/how-tos/>. It is strongly recommended that you watch these in conjunction with reading this manual and all how to videos can be viewed and downloaded from the resources section at <https://cutacopter.net/kb-category/how-tos/>.

The available videos cover:

Title	Description
T10 Remote Use and functions	Overview of the remote controller features
Accelerometer and Compass calibration	Procedure to calibrate drone
How to Arm the motors using APP	Using the APP to start/arm motors
Auto Arm, Takeoff, RTL and come to me	Video explaining APP auto features and modes
Adjusting Camera Settings	Enables fine tuning of brightness, contrast etc
How to create a waypoint and bait drop	How to use the advanced waypoint features
How to charger your battery - UP100	Extensive video showing how to use the UP100AC battery balance charging and storage modes.
Battery Installation	Shows the correct position battery
How to use the bait sling	Explains how to correctly connect the bait using the bait sling
Click to save function	How to use the GPS click to save function

YOUR BATTERY AND IT'S MANAGEMENT

About This Section

This Section covers the batteries used to power your Cuta-Copter and how they need to be managed.

It includes:

- About Lithium-Polymer (LiPo) Batteries and Their Safety
- Charging a battery
- Installing the battery in the Cuta-Copter
- Storage

About Lithium-Polymer Batteries and Their Safety

Your Cuta-Copter is powered by a six-cell Lithium-Polymer (Li-Po) battery. The Li-Po battery has a terrific power to weight ratio and can carry a lot of charge for its size. This makes it ideal for powering drones.

The voltage provided by a Li-Po battery diminishes as it discharges its power. Accordingly, the amount of charge remaining in the Li-Po battery supplied with your Cuta-Copter can be assessed by checking the available voltage. This can be done by attaching the BX100 Battery/Cell Monitor supplied with your Cuta-Copter. Use the white balancing cable on the battery to attach the BX100. There are four possible attachment alignments. The BX100 will come to life when the correct alignment is achieved. The BX100 will cycle through each cell, showing its respective available voltage, and then give a total battery voltage.

[Please watch video - How to charge you battery UP100AC instructional video.](#)

The charge-level – voltage relationship is:

Charge Level (%)	20	30	40	50	60	70	80	90	100
Single-cell voltage	3.72	3.78	3.84	3.90	3.94	4.02	4.08	4.14	4.20
Total Battery Voltage (6 cells)	22.32	22.68	23.04	23.40	23.76	24.12	24.48	24.84	25.20

Never allow your battery voltage to drop below 3.3V per cell (19.8V) This will damage the battery.

While intrinsically safe, cases have been recorded of Li-Po batteries spontaneously overheating and catching fire. A strict maintenance and care program is recommended to minimise the potential for your Li-Po battery to have issues. Six 'Battery Rules' should be followed rigorously.

Battery Safety Rules	
Rule 1	Thoroughly inspect your battery before and after every use.
Rule 2	Replace the battery if it shows any external damage or bulging, or there is corrosion on the leads.
Rule 3	Do not store the battery in the Cuta-Copter
Rule 4	Do not store the battery fully charged, or fully discharged. A 33% charge-level (22.8 volts) is strongly recommended for battery storage
Rule 5	Check cell health every tenth use of the battery by testing the voltage available in each cell using the BX100 Battery Volt/Cell Monitor. Discard the battery if any single cell has less than half the voltage available from it than is available from the other cells. This indicates that the cell is damaged.
Rule 6	Treat the battery terminals with a high-quality anti-corrosion spray (such as CorrosionX) every tenth use and immediately if the battery contacts sea water.

Charging a Battery



Your Cuta-Copter comes with a UP100AC *plus* charger. The charger is specifically designed to charge multi-cell batteries. The charger monitors charging through each cell of the battery with a 'balancing cable'.

To charge your battery:

1. Set up the charger by attaching the power cable, the battery charging cable and the balancing cable. Match the charging cable colours to the charger socket (red to positive, black to negative).
2. Attach the battery to the charger using both the charging cable and the balancing cable.
3. Turn on mains power to the charger.

4. Use the 'Status' buttons on the charger to set the charger to match the battery. The correct set-up is: 'LiPo Balance' – '5A' – '22.2V (6S)' .
5. Press and hold down the Enter button until the charger makes a confirmation 'beep' and displays 'CONFIRM' , then press the ENTER button to confirm. The charger will then commence charging the battery.

The charger will show progress of charging by showing the overall battery voltage in the top right-hand corner of its display.

Your battery will charge at a rate of around 17 to 20 minutes per volt. Charging from around 30% charge to fully charged will take between 40 to 50 minutes. Monitor charging closely. The charger will automatically stop when the battery reaches its maximum charge of 25.20 volts. Press stop and disconnect the battery and charger.

CAUTION: Do not leave the battery on the charger after it reaches full charge. This could cause damage to the battery.

[Watch Video: How to charge your battery UP100 Instructional video.](#)

Installing the Battery into the Cuta-Copter

The Li-Po battery is easily installed into the battery bay in the under-belly of the Cuta-Copter.

Only the power cable needs to be connected. The Balancing Cable can sit, unattached next to the battery.

Use the primary lug and plastic screw to attach the battery cover.

Install the battery just before a practice session or use. Always remove the battery after use and store it safely in a cool and dry environment.

[Make sure to watch the video - Battery installation to ensure battery direction is correct.](#)

Storing Your Li-Po Battery

Test the power level of the Li-Po battery prior to storage using the BX100 Battery/Cell Monitor.

A 33% power level (22.8 volts) is highly recommended for short or longer-term battery storage. If you leave a LiPo battery at full charge over long periods of time it will greatly reduce the lifespan of the battery.

The UP100AC *plus* charger provided with your Cuta-Copter can be used to dissipate power from your Li-Po battery.

To do so:

1. Connect the power and balancing cables from the battery to the charger
2. Connect and turn on mains power to the charger
3. Press the right hand > button until 'LiPo STORAGE' appears on the screen
4. Press and hold the Enter-Start button until the charger beeps
5. Press Enter-Start to confirm

The charger will stop automatically when the ideal storage charge is reached.

Store your Li-Po battery in a container in a cool and dry location, that will not allow a fire to propagate if the battery overheats and catches fire.

[Watch Video: How to charge your battery UP100 Instructional video.](#)

PRE-FLIGHT ESSENTIALS

About This Section

This Section covers two things that **you must do** prior to taking your Cuta-Copter on its first flight.

This procedure must be done correctly and the Quick switch must be removed after calibration to save the changes - The APP must also be closed and re-started after any calibration.

They are:

- A Compass Calibration
- An Accelerometer Calibration

Compass Calibration

The Compass Calibration is usually required only once. A repeat calibration could be required if the calibration is affected by strong magnetic fields. This will be evident by circular hovering or highly erratic flights.

Compass Calibration can be done through the SkyDroid APP.

It is best to undertake the Compass Calibration without the propellers being attached to the drone. The Calibration must also be done outdoors and away from metallic structures and reinforced concrete.

Ensure the front of the drone faces true north.

SkyDroid APP Method

Step	Activity
1	Power up the SkyDroid APP
2	Insert the Li-Po battery into the Cuta-Copter and place it on the ground with its front facing as close to True North as possible
3	Turn on the Remote Controller first Then Power up the drone by inserting the Quick Switch
4	Click the menu tab on the top left corner of the SkyDroid APP and select the Compass Calibration option in the drop-down menu
5	Follow the voice instructions from the SkyDroid APP and follow to visual calibration sequence on the APP

6	Once you are notified that the compass calibration is successful, remove the Quick Switch from the drone to save the calibration
7	Shutdown and restart the APP

The Compass Calibration is demonstrated on the on-line tutorial available at <https://cutacopteraustralia.com.au/kb-category/how-tos/> in the resources section.

Accelerometer Calibration

The Accelerometer Calibration must be done prior to your drone's first flight and should be repeated every 3- 6 months or should the drone not be stable in flight.

The Accelerometer Calibration can only be done through the SkyDroid Tower APP via the drop-down menu and can be located next to the compass calibration. Follow the voice prompts and once completed successfully remove the Quick switch to save the calibration and shutdown and re start the APP.

Cuta Safety functions

Your Cuta has an amazing array of safety functions and features – make sure you are aware of each one and what happens if one of these safety functions is activated automatically. We strongly recommend you up-skill yourself in 'ALT Hold mode' in the event one of these safety functions are activated.

'ALT Hold mode' or Altitude mode is a Non-GPS mode, and whilst in this mode your Cuta will hold the height using its onboard barometer, **but it will not hold its position**. In this mode when activated the drone will be pushed by the wind direction – you will need to compensate for the wind and manually return the drone.

Low battery 'Pre-arm'

Your Cuta will not arm when the battery level is below 21.7 volts, preventing a short take off and then the subsequent activation of the Low battery RTL function.

Low battery 'RTL'

Your Cuta will automatically drop the bait and activate 'RTL' Return to Land function once the low battery level has been reached. Never override this function and allow it to return and land automatically.

Loss of Signal

Your Cuta will automatically drop the bait and activate 'RTL' mode if there is a loss of transmitter signal.

Loss of GPS

In the event that your Cuta Copter loses GPS satellite connections you will be verbally warned. The advanced programming will keep the Cuta on its mission - whilst satellites are re connected. If however GPS cannot reconnect it will change the flight mode to 'ALT Hold mode' and it will verbally advise you – in addition the bait release will activate.

Ensure you up-skill yourself with ALT hold mode.

Magnetic interference

Your Cuta will verbally announce that a magnetic interference has been detected – it will attempt to adjust for this and if successful will notify you verbally. If the magnetic interference is too strong, it will immediately activate 'ALT Hold mode'. Never take off from your car bonnet or attempt to land the drone on metal surfaces and stay at least 20 metres from colour bond roofs.

In addition to the above, magnetic interference can be caused from, but not limited to, power lines, reinforced concrete, antenna's, rocks and sand that contain high iron ore concentrations.

FLYING YOUR CUTA-COPTER

About This Section

This Section provides basic information on how to fly your Cuta-Copter.

It covers:

- Battery power levels
- Flight modes
- Some Serious Do's and Dont's
- Remote Controller
- LED warning lights
- Recommended practice
- Take-offs
- Flights
- Landings

Battery Power Levels

Your Cuta-Copter is pre-programmed so that it will not start unless there is at least 21.7 volts available from the Li-Po battery. It will also automatically drop a bait and return to home when battery power drops below a minimum threshold usually is below 21.5V.

These settings are to minimise the potential for your Cuta-Copter from being unable to return home due to low battery power.

Depending on wind conditions, you should get four to five, 300 metre, 700 gm bait drops from a fully charged six-cell Li-Po battery.

Flight Modes

There are six flight modes pre-programmed into your Cuta-Copter. The modes have varying degrees of automation and are designed to optimise the use of your Cuta-Copter.

The drone's altitude, direction of flight and flight speed can all be controlled using the controller joy-sticks in all pre-set flight modes.

Mode	Use and Characteristics	How to Activate
Loiter (Standard flying mode)	Loiter mode is designed for general manoeuvring. The drone is GPS-connected, so RTL mode (button 'A' on the Remote Controller) can be used to automatically return and land the drone to the launch site. Speed is limited to 34 kph. There is no automatic acceleration or deceleration control.	E switch at far-right position

Pos Hold	POS Hold mode is optimised for bait lifting and deployment. The drone is GPS-connected, so RTL mode can be used to automatically return and land the drone to the launch site. Acceleration and Deceleration is automatically controlled to reduce the pendulum effect from the bait and rig. Drone speed is not automatically limited so higher speeds can be attained – use caution.	E switch in middle position
AUTO	AUTO is used in conjunction with the GPS 'Click to Save' function	E switch in far-left position
RTL	The drone automatically returns to the launch position and undertakes a controlled landing and motors will shut down automatically.	Depress A button
Follow Me	The drone automatically follows the control unit.	Activate 'Follow Me' mode on the SkyDroid App.
Come to Me	The drone will return to the controller and undertakes a controlled landing. This mode can be used to land a drone on a boat which has moved from its position when the drone was launched.	Activate 'Return to Me' mode on the SkyDroid App.

Serious Do's and Dont's

Your Cuta-Copter has in-built safety features that are designed to minimise the possibility of a serious in-flight mishap. There are 13 rules that, if strictly followed, will further minimise the potential for a serious mishap.

Always Do	
Use a landing mat or pad.	Using a mat or pad minimises the potential for the drone being damaged during take-off and landing and keeps sand and dust away from the drone.
Never move your Cuta Copter while it is powering up until the Green LED starts flashing.	Moving the drone during power up can disrupt the drone's internal start-up routine and can cause the drone to lose some in-flight safety features. In extreme situations, this could potentially cause loss of control during flight and could cause the drone to crash.
Whenever flying from a different location always hover your Cuta-Copter	Flying your Cuta-Copter without proper Compass Calibration could result in you

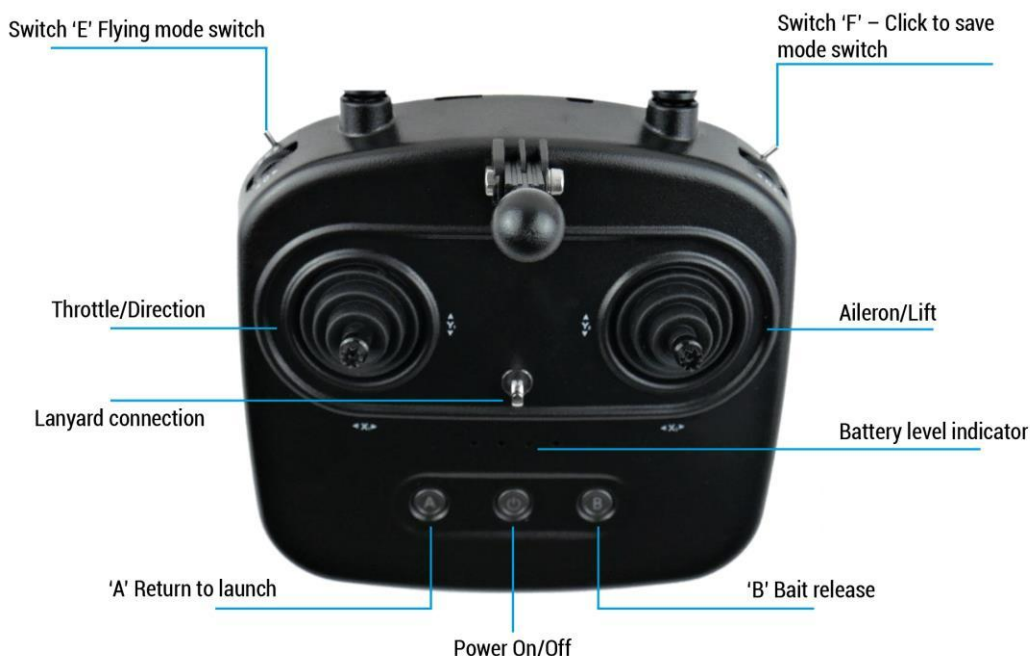
at an elevation of around 10 metres for ten to fifteen seconds at the start of each flight to check Compass Calibration.	losing the ability to fully control the drone's flight. In extreme situations, this could cause the drone to crash.
Fly your drone at an elevation of between 20 and 30 meters. This ensures that all of the in-built safety features of your Cuta-Copter are activated.	Flying the drone without having all of the in-built safety features activated, in extreme situations, could cause the drone to crash. This flying height also provides room for error in the event of an issue.

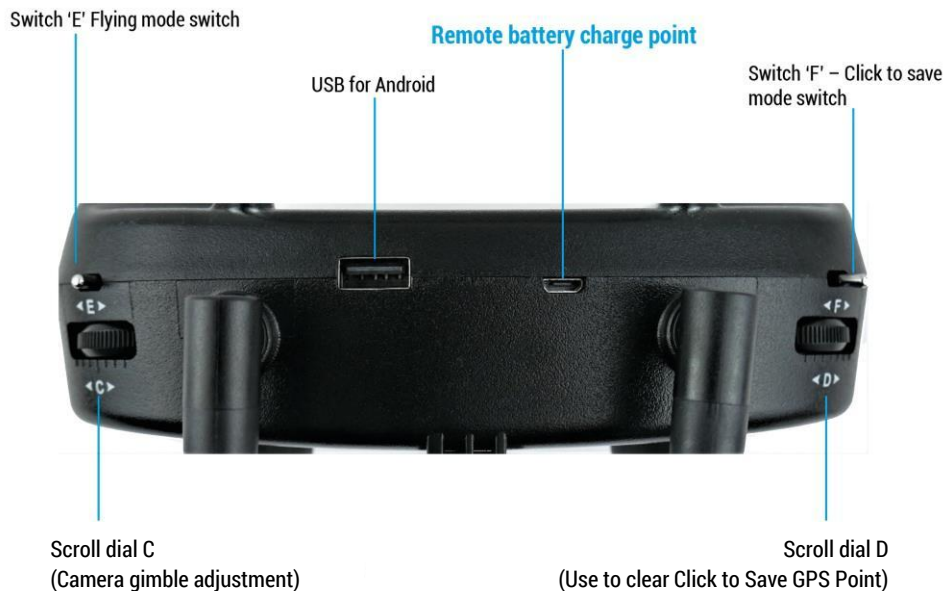
Never Do	
Push the LAND button on the APP.	This will cause the drone to land in excess of safe speed at its current location - Always use the RTL function or land the craft manually.
Try to fly your Cuta-Copter indoors.	The Cuta-Copter is programmed to go to an altitude of ten metres upon take-off. The drone will heavily contact your ceiling, causing severe damage to the drone and the ceiling.
Try to fly your Cuta-Copter before you have successfully completed both the Compass Calibration and Accelerometer Calibration routines.	Inbuilt safety settings in the drone will not be effective if the Compass and Accelerometer calibrations have not been successfully completed. In some circumstances, an inflight failure could occur and your drone could crash.
'Dis-arm' the drone from the control panel while in flight.	The drone will shut down and crash.
Hold the left control stick fully down for more than 9 seconds while the drone is in flight.	The drone will shut down and crash.
Fly your Cuta-Copter around people.	The rotor blades on your drone are sharp, hard, and dangerous. Accidental contact with a person could cause serious injuries for which you will be solely responsible.
Fly your Cuta-Copter in winds of more than 40 km/hr and wind gusts exceeding 50 km/hr.	With an average wind speed of 30 – 40 km/hr, it is possible for wind gusts to exceed 40 to 50 km/hr. While designed to be stable in windy conditions, with strong wind gusts,

	it is possible that you may not be able to retrieve your drone, especially with an on-shore wind. The drone will gradually lose power and eventually crash. Never exceed wind speeds of 20 km/hr while learning to fly.
Quickly accelerate or decelerate your drone while in flight – especially with a bait attached.	Fast acceleration or deceleration of the drone in flight can cause some loss of control. With a bait attached, quick acceleration or deceleration can cause severe swinging of the bail line. This 'pendulum effect' can cause flight instability and could cause the drone to crash.
Trying to carry a load (bait plus tackle) of more than the specifications. This will void the warranty	Excessive loading can cause severe flight instability, especially if the load starts to swing. In extreme circumstances this could cause your drone to crash.

Remote Controller

Charging is amazingly simple - Simply insert the USB cable into the Remote battery charging point until the four LED's are illuminated.





Led Warning Lights

It is important to understand the various warning lights for safe operation of your craft - ensure you fully understand each one.

1. **Flashing green** - ready to arm. Will show 3D in top right of Skydroid Tower app.
2. **Faster green** - GPS mode with better positioning data. Will show 3D & DGPS in top right of Skydroid Tower app.
3. **Solid Green** - armed ready to start and launch. Press throttle forward to lift off.
4. **Flashing orange** - insufficient SATS to launch. a. RTL activated or LOW battery RTL.
5. **Radio beeping** - no power on the receiver in the drone. Connect the quick switch to the drone.
6. **Flashing orange** before launch - battery too low. Check battery level is above the Min Arm Value.
7. **Flashing Blue** - lost GPS satellites - When GPS Sat's are lost in flight the craft will automatically switch to ALT Hold mode requiring the pilot to manually control the craft and land.

Practice Required

The Cuta-Copter is an advanced unit and is one of the more expensive fishing drones on the market. You do not want to lose it because of inexperience. You are solely responsible for its use, or mis-use.

It is a lot easier to recover from a mishap if it occurs over land than if it occurs over water.

Accordingly, it is strongly recommended that you undertake extensive training and practice before you take you Cuta-Copter over the water.

If available, drone simulator training would be especially useful.

On-land practice is essential.

Never attempt to fly the Cuta-Copter in your back or front yard.

Locate yourself in the middle of a park and keep the drone within a 30 meter radius while learning and stay away from trees and power lines. Be aware that down drafts and turbulence occur when flying in suburbia.

It is recommended that you undertake progressive on-land training:

- Start with two to three trials where you just launch the drone to operating height and bring it back down to the launch site. This should be done using both the auto-pilot and manual flight modes.
- Two to three trials where you launch the drone and move it to one hundred meters from the launch site and bring it home. Again, this should be done in both auto-pilot and manual modes.
- Two to three trials where you load the drone with a sinker, but not attached to a fishing rod, take it ten to twenty meters from the launch site and activate the bait drop mechanism and then bring the drone back home.
- Two to three trials where you practice a bait drop, over land, with the drone attached to a fishing line and rod.

Practice sessions should start in low wind conditions – less than 20km per hour. Some practice should be undertaken at higher wind conditions – around 20-25km per hour when your skill level improves.

Do not attempt to operate your Cuta-Copter in wind conditions above 35km per hour.

Take-off

Step 1: If you are using a landing mat or pad ensure it is adequately secured as this may blow on top of the drone and damage the motors or propellers.

Step 2: Remove the Quick switch and secure a fully charged battery in the battery bay in the under-belly of the drone. Secure the battery cover with the quick close lug plastic screw.

Step 3: Inspect the four rotor blades for damage and secure the blades to the drone in their colour-coded locations if they are undamaged.

Step 4: Place the drone in the centre of the landing pad and in the direction you will be initially flying the drone.

Step 5: Attach your fishing rig using the drop-loop attached to the bait release mechanism. Lay out the fishing line so that it will not get tangled when the drone powers up and place the line under one of the landing feet.

Step 6: Power up your Remote controller first

Step 7: Insert the Quick Switch into the drone and connect the APP

Step 8: Wait until the light at the top of the drone starts to **FLASH GREEN**, then arm the drone (get the rotors spinning) and take-off using either the Remote Controller or the APP Control Panel

	Remote Controller	APP Control Panel
Arming (getting the rotors moving)	Wait until the LED flashes GREEN and you confirm more than 15 satellites. Pushing the left joystick down to a 6.00 o' clock position and then right to a 5.00 o' clock position and hold it until the motors start and release the joysticks.	Pressing the 'Arm' icon and then run the slider on the screen to confirm the instruction
Take-off	Push the left joy stick up slightly	Pressing the 'Take-off' icon and then run the slider on the screen to confirm the instruction. In Auto take-off you will have to depress the A button twice cycling it from Guided to RTL to Loiter mode

Step 9: Hover the drone at an elevation of around 10 metres to check the Compass Calibration

Step 10: Lift the drone straight up using the left joy stick to an elevation of around 25 meters to ensure that the in-built safety programs activate.

Flight

Always keep your drone in sight.

Fly your Cuta-Copter at an altitude of around 30-35 metres. This keeps it away from surface air disturbances and out of harm's way.

Use the joy-sticks with slow, steady movements. Avoid quick accelerations and decelerations.

Watch for excessive swinging of the bait line. Bring the drone to a stop and hold it steady if excessive swinging occurs. Only recommence your journey once the swinging subsides.

Landing

Clear the landing pad and at least one metre on every side of the landing pad prior to returning the drone to home and attempting a landing.

Depressing the 'A' button on the Remote Controller will instruct the drone to 'RTL' return home and land. Landing in the home position (the location from which the drone was activated), will be automatic. The drone will also automatically power down and disarm.

To land the drone from the Remote Controller:

- Bring the drone to a hover at about eye level directly above the centre of the landing pad
- Bring the drone down slowly until it touches the ground. The drone will sense the touch down and automatically slow the rotors. Hold the left joy-stick fully down for five seconds to dis-arm the drone.

Never use excessive speed when landing the drone as this can create dirty air and your drone may literally fall out of the sky and crash.

Disconnect the APP and Remove the Quick Switch from the drone and then turn off the Remote Controller – the opposite procedure for starting the Cuta.

FISHING WITH YOUR CUTA-COPTER

About This Section

This Section provides information on how to best fish using your Cuta-Copter.

It covers:

- Risk and their mitigation
- Understanding the 'pendulum effect'
- Setting up your rig
- Using the Snapper Release Mechanism
- Flying out the rig and bait
- Looking after your Cuta-Copter while you fish

Risks and Their Mitigation

There are circumstances that could cause your Cuta-Copter from not returning from a fishing bait drop.

This section covers potential causes of a failure to return and how these risks can be mitigated.

Cause	Mitigation
Insufficient remaining battery power	The Cuta-Copter is programmed to automatically drop a bait and return home due to low battery power. This is a factory setting and cannot be intentionally or unintentionally changed – Never override this safety function.
Insufficient power to combat strong onshore winds	Never fly your Cuta-Copter when average wind speeds exceed 40 km/hr. Hand-held wind speed instruments (anemometers) can be purchased for as little as \$35 and would be a good addition to your drone fishing kit.
Pendulum effect causes drone to lose stability and crash	Use a fishing rig with the bait and sinker weight at least three metres below the drone and always accelerate and decelerate slowly. Always fly the drone in 'Pos Hold' mode if your bait/rig exceeds 1kg. This flight mode has in-built controls on acceleration and

	<p>deceleration to minimise the potential for the pendulum effect impacting drone stability. .</p> <p>(Read the section on the pendulum effect that follows).</p>
Excessive load weight causes drone to sink onto the water	<p>The greater the load, the higher the risk. While the Cuta-Copter can lift to 2.5 kg – 3.5kg model dependent, the bait plus sinker load should never exceed 2.0 kg. It is recommended that an operational maximum load of around 700 – 1500 grams be targeted.</p>
The trailing fish rig gets entangled	<p>A fishing rig should be taken straight up to 25 – 30 metres and then flown out to the drop zone - Never fly backwards or downwards with the rig attached.</p>
The bait drop mechanism fails to activate	<p>It is recommended that all drone functionality, including the bait drop mechanism, be tested over land before starting a drone fishing session.</p> <p>The drone will need to be returned to home if the bait drop mechanism fails to activate. This will require concurrent operation of the drone and rewinding the fishing line. It is recommended, therefore that you always have someone with you when you are drone fishing.</p>

The Pendulum Effect

A pendulum is a swinging weight. A pendulum exerts a force on the point from which it is swung.

The rig attached to your Cuta-Copter can act as a pendulum. The force of the pendulum will act on the point at which the rig is attached to the drone (the 'pivot point'). The amount of force depends on the distance from the weight to the pivot point and on the amount of swing. The longer the distance, the less the force. The less the swing, the less the force.

In extreme circumstances, the force from the pendulum effect can be sufficient to cause the drone to lose stability, especially with heavier baits.

The recommended fishing rig, with a minimum length of line from the drone connection to the bait and sinker of 3 to 4 metres, is designed to minimise the potential for a pendulum effect.

Swinging of the load line is usually caused by rapid acceleration or deceleration of the drone. The 'Pos Hold' flying mode has in-built controls to limit acceleration and deceleration. Flying in 'Pos Hold' mode also minimises the potential for the pendulum effect. Always use this flight mode when carrying baits exceeding 1kg – but be mindful of the decreased acceleration and deceleration especially when landing.

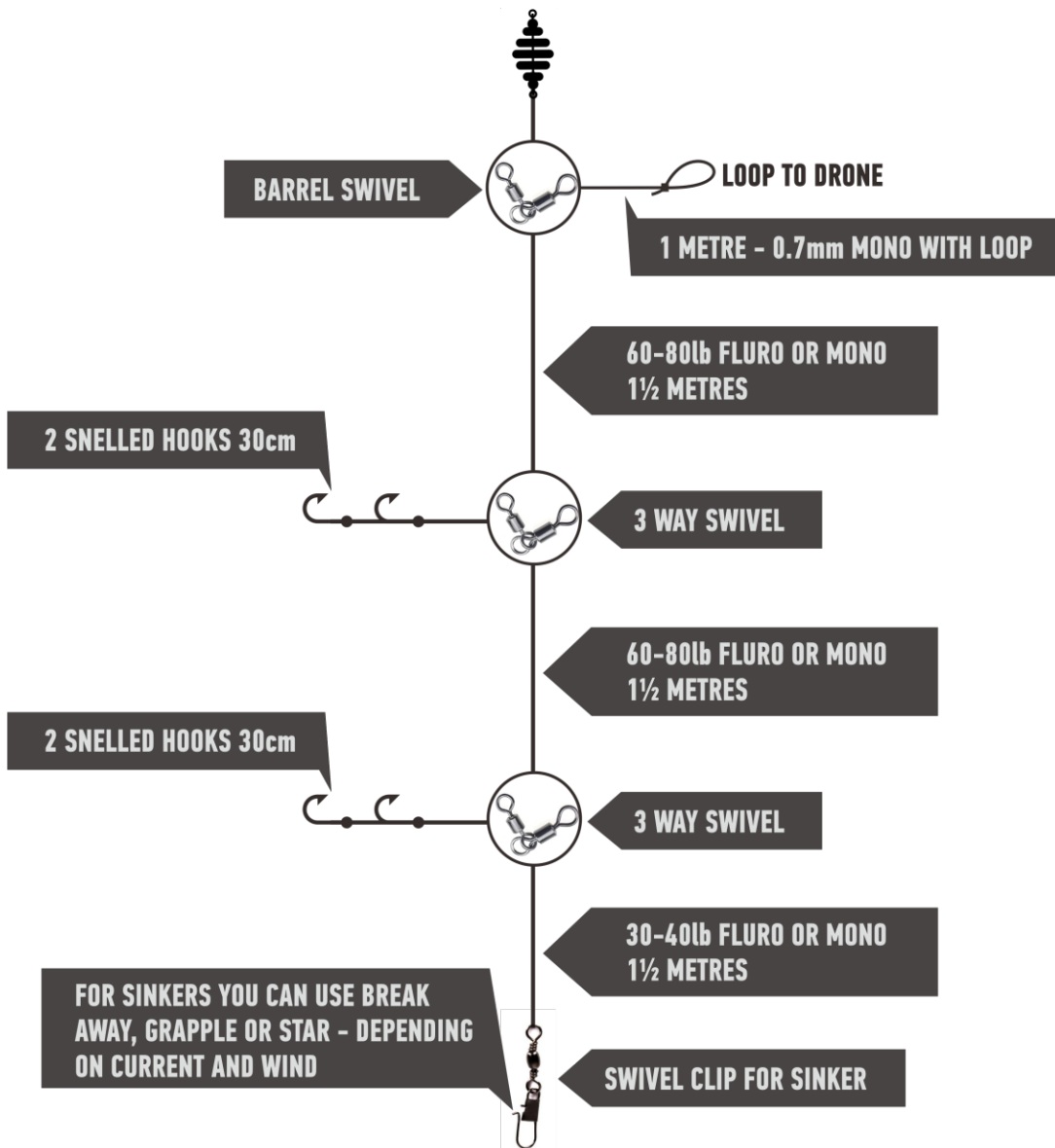
Setting Up Your Rig

The recommended fishing rig is shown below.

Using a drop loop line diameter of no less than 0.7 mm will minimise the potential for the drop loop line to tangle on your main line when retrieving the rig.

DRONE FISHING RIG

BASIC SNAPPER RIG



NOTE:

The overall length of the rig should be no less than 4 metres and is dependent on the water depth you are dropping into - ideally 6 metres to drone reduces the pendulum effect.

NOTE:

Using lower than 0.7mm line to the drone will cause tangles.

Using the Snapper Release Mechanism

[Watch Video: How to Drone Fish - Bait Sling Video.](#)

Maintenance

Your Cuta Copter will advise you when a recommended service should be performed – this service should be carried out by a registered Cuta Copter service agent.

Drones require responsible operators that keep safety as top priority, and to keep your drone safe you will need to maintain it properly. Drones require regular on-board electronic maintenance and frame and motor care.

1. Clean everything regularly - Keep a paint brush in your bag to remove sand.
2. Do the accelerometer calibration once per month or when system warns you. View the video on ACC calibration.
3. Avoid washing motors and craft with water – only do this in extreme circumstances – Corrosion will always find a way when salt and water is introduced.

Saltwater exposure care

We do not recommend intentionally exposing your craft to saltwater.

After salt exposure gently rinse the craft with fresh water, a bottle of water is perfect but never use water under pressure. Where possible use an airgun at distance to remove excess water. Wipe down the craft and leave standing nose up until dry. Once dry treat the motors and connections points with Corrosion X or a quality anti rust/corrosion spray and remove excess product.

WARRANTY AND SERVICES TERMS AND CONDITIONS

WARRANTY PERIOD

Your Cuta-Copter comes with a Limited Warranty against defects in materials and/or workmanship for consumer use only, excluding rental or commercial use. Please see the table below for specific parts cover.

The warranty period is effective for all original Cuta-Copter's from the date the product is purchased from an authorized Cuta-Copter dealer to the original purchaser.

LIABILITY

To the maximum extent permitted by law, this warranty does not cover claims or liability for any incidental or consequential damages arising from, or in connection to the product.

The user accepts all liability and responsibility for the safe operation of the craft and undertakes to only operate the craft when they are competent in the operation of the craft and adhere to all local laws and regulations.

Once you have used this product, it is deemed that you have fully understood the contents of the manual and the warranty coverage. In the event of improper setup and/or use of the product, Cuta Copter will not accept any liability for damages or compensation.

It is common knowledge that the GPS signal to a drone can be lost due to varying levels of satellite availability. This will require the pilot in command to have skill proficiency to land the drone manually in Attitude mode. It is the sole responsibility of the user to ensure that they have the required level of proficiency.

LIMITED WARRANTY COVERAGE

Exclusions

This limited warranty does not cover:

1. Purposely landing the drone on water or submerging it.
2. Damage caused from normal wear and tear, accident, improper/misuse of the product, sunlight, penetrative water due to collision, unless caused due to defective materials or workmanship.
3. Damage caused by negligence or lack of adherence to the manual and the recommended servicing/maintenance for the product.

4. Damage caused by altering the Flight Controllers factory settings or parameters. Alterations include but are not limited to any changes to the Flight Controllers settings and parameters without the express written authority by Cuta-Copter. The flight controller records all changes to settings and parameters in addition to full flight history - 'Black box' .
5. Consumable parts including propellers, landing gear, batteries, membrane, unless the failure was due to defects in materials or workmanship of the product.
6. Damage caused by pilot error not related to product failure.
7. Damage caused by external influences such as, but not limited to loss of GPS signal, electromagnetic interference from natural ground anomalies, transmission towers, power lines, sub stations, radio towers etc.
8. Damage caused from transmission interference and other wireless devices.
9. Damage caused by unauthorized modifications to the product by a non- authorized Cuta Copter repairer like DIY modifications, un-assembly, or re-assembly.
10. Damage caused by using the product outside the products specifications/limitations and/or continuing to use the product in an impaired or damaged state.
11. Damage caused due to operating the product with a damaged or defective battery and or damage caused due to failure or consequential damage due to improper use/maintenance/storage of the battery.
12. Any product that does not have a serial number, if the serial number has been removed or altered, and the purchaser cannot provide original proof of purchase.
13. Non recovery of drone
14. Warranty is not transferable if original buyer sells the craft.
15. Damage caused from collision with any object like trees, buildings, poles etc. or damage caused from operating below the recommend operating altitude of 25M.

REGISTER YOUR WARRANTY

Please visit www.cuta-copter.co.za and register your warranty as soon as you have purchased the Cuta-Copter.

Warranty Procedure

On receipt of the product Cuta Copter will inspect and test the product to determine the issue and responsibility of the product. The Data will be downloaded to assess the environment in which the drone was operated. Any operation of the drone closer than 30M to buildings, power lines or any source of interference will deem the warrantee void. If it is deemed the issue/problem is covered under warranty, Cuta Copter will be responsible for the inspection fee, materials, and labour. Freight costs remain the responsibility of the user. Always try to purchase from the closest dealer.

If it is determined that the issue/problem is not covered by the warranty, an inspection fee will be charged, and a quote will be provided prior to any work or maintenance being carried out. The costs of all materials, labor and freight will be the responsibility of the product owner.

Please contact us at any time regarding any service or warranty query directly cutacopter@gmail.com

Please make sure to have your serial number, Invoice number and date of purchase.

The limited warranty covers parts as follows in normal use. Parts that are damaged due to any crash or operating below 25M are not covered under warranty. Any impact will like effect the main seal. Please operate carefully and safely, with common sense.

MAIN FRAME	12 MONTHS
MOTORS	12 MONTHS
FLIGHT CONTROLLER	12 MONTHS
LANDING GEAR	NONE
PROPS AND HUBS	NONE
REMOTE CONTROL	12 MONTHS
SERVO	3 MONTHS
BAIT SLING	3 months
CAMERA PLASTIC HOUSING	NONE
CAMERA AND GIMBAL	6 MONTHS

TRIDENT SPECIFICATIONS

TRIDENT 5000 (T5K)

AIRCRAFT

Waterproof Level: IP67 on main electronics chamber

Surface Buoyant: Level 2 Flotation

Drone Weight: 1720g (without battery) (3,7 LB)

Dimensions: 455mm x 455mm

Max Ascend Speed: 10m/s (23mph)

Max Descend Speed: 3m/s (6,8 mph)

Max Flight Speed: 65kph (User Adjustable) (40mph)

Max Flight Altitude: 40M – Set at factory (120ft)

Wind Rating Typical Maximum: 40kph (21-22Knots) (25mph)

Wind Rating Peak Gusts: 50kph(26-27 Knots) (31mph)

Max Flight Time (per charge): 23 minutes no load (4-5 drops at 300M, 700gm bait)

Max Flight Range: 1.5km – Geofence set to 500M

Max Payload Capacity: 4KG (Recommended safe lifting weight 3.5KG) (7,7 LB)

ESC: 40A

Propellers: 15" carbon fibre propellers

Working Temperature: -10°C ~ 40°C

APP: SkyDroid Tower (Android Only)

Motor: Brushless/Waterproof

GPS

Concurrent reception of up to 3 Global Navigation Satellite Systems 'GNSS'

Communication and acquisition of 4 GNSS platforms – GPS, Galileo, GLONASS and BeiDouh.

Flight Controller

Type: Pixhawk 4 mini

Processor: 32 Bit Arm® Cortex®-M7, 216MHz, 2MB memory, 512KB RAM

Sensors: 2 x Accelerators, 2 x Gyro's, Magnetometer, Barometer

PMU: PM06 V2

Remote Control

Weight: 660g

Frequency: 2.400-2.483GHz

Range: 1.5km (unobstructed, free of interference) Set at factory to 500M

Modulation: New FHSS

Working Current: 100mAh

No. of Channels: 10

Battery: 2 X 18650 Lithium batteries (Provided)

Video Transmission

Range: 1.5km Max (unobstructed, free of interference)

Working current: 180mA

Gimbal: 1 AXIS

Camera: 720P HD 1280×720

Standard Battery (6S/5000mAh 22.2V LiPo)

Battery Type: LiPo

Battery weight: 651gms

Operating Temp: -10° to 50° C

Charging Current: 5AMP

Voltage: 22.2V

NOTE: Depending on your country, you may need to purchase the LiPo craft battery locally.

Recommended battery:

5000mAh, 45C, 6S

Brands: GENSTATTU, HRB, GNB, XPOWER

Charger - Picture of supplied charger may vary

Type: 100W Smart Balance Charger LiPo

Battery Charge Time: 60mins at 30% level

Please ask for the following available accessories:

RED AND WHITE INDICATOR LIGHTS

LANDING MAT

DRONE SAND/WIND COVER

UPGRADED 200W CHARGER FOR FASTER CHARGING

SNAPPER BAIT RELEASE CLIPS

Care has been taken to provide all required information in this user guide. However, we cannot be held responsible for any new information available after time of publication. User guide will be updated from time to time. Please use common sense and keep safety of people, property and the drone as priorities. Low level reckless flying must be avoided especially when testing heavy loads. Please join the official CUTA COPTER FACEBOOK pages to keep up to date and participate in special offers and competitions.



Warranty and Service Terms and Conditions

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It is common knowledge that the GPS signal to a drone can be lost due to varying levels of satellite availability. This will require the pilot in command to have skill proficiency to land the drone manually in Attitude mode. It is the sole responsibility of the user to ensure that they have the required level of proficiency.

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3. damage caused by negligence or lack of adherence to the manual and the recommended servicing/maintenance for the product.
4. damage caused by altering the Flight Controllers factory settings or parameters. Alterations include but are not limited to any changes to the Flight Controllers settings and parameters without the express written authority by Cuta-Copter. The flight controller records all changes to settings and parameters in addition to full flight history - 'Black box'.
5. consumable parts including propellers, landing gear, batteries, membrane, unless the failure was due to defects in materials or workmanship of the product.
6. damage caused by pilot error not related to product failure.
7. damage caused by external influences such as, but not limited to loss of GPS signal, electromagnetic interference from natural ground anomalies, transmission towers, power lines, sub stations, radio towers etc.
8. damage caused from transmission interference and other wireless devices.
9. damage caused by unauthorized modifications to the product by a non- authorized Cuta Copter repairer like DIY modifications, un-assembly, or re-assembly.
10. damage caused by using the product outside the products specifications/limitations and/or continuing to use the product in an impaired or damaged state.
11. damage caused due to operating the product with a damaged or defective battery and or damage caused due to failure or consequential damage due to improper use/maintenance/storage of the battery.
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13. Non recovery of drone

14. Warranty is not transferable if original buyer sells the craft.

15. Damage caused from any collision with any object like trees, buildings, poles etc. or damage caused from operating below the recommend operating altitude of 25M.

16. Any operation in areas not deemed legal for drones or any operation contrary to local laws.

Warranty Procedure

On receipt of the product Cuta Copter will inspect and test the product to determine the issue and responsibility of the product. The Data will be downloaded to assess the environment in which the drone was operated. Any operation of the drone closer than 30M to buildings, power lines or any source of interference will deem the warrantee void. If it is deemed the issue/problem is covered under warranty, Cuta Copter will be responsible for the inspection fee, materials, and labour. Freight costs remain the responsibility of the user. Always try to purchase from the closest dealer.

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Please contact us at any time regarding any service or warranty query directly cutacopter@gmail.com

Please make sure to have your serial number, Invoice number and date of purchase.

The limited warranty covers parts as follows in normal use. Parts that are damaged due to any crash or operating below 25M are not covered under warranty. Any impact will affect the main seal. Please operate carefully and safely, with common sense.

Whilst every effort is made to ensure a good seal for the main electronics under the canopy, it is impossible to test each item under water. Therefore, the warranty does not cover possible water damage to internal if the seal is breached for any reason.

MAIN FRAME (not covered if crashed)	12 MONTHS
MOTORS	12 MONTHS
FLIGHT CONTROLLER	12 MONTHS
LANDING GEAR	NONE
PROPS AND HUBS	NONE
REMOTE CONTROL	12 MONTHS
SERVO	3 MONTHS
BAIT SLING	3 MONTHS
CAMERA PLASTIC HOUSING (camera is rain resistant only) – do not immerse CAMERA AND GIMBAL function	NONE 6 months.
Insurance	Consult your local insurance dealer for any options WRT to additional peace of mind.

Park Flight LOG – DO NOT EXCEED RATED BAIT LOAD – use 80% of max

CUTA-COPTER LOG BOOK Complete the log book before going fishing.					Serial		
RETAIN FOR ALL CORRESPONDENCE			TAKE OFF				
	<u>TEST DATE</u>	<u>TESTED BY</u>	<u>FLYING TIME</u>	<u>TO 30M</u>	<u>FLYING</u>	<u>AUTO-LAND</u>	<u>SIGNED</u>
1							
2		CLIENT					
3		CLIENT					
4		CLIENT					
5		CLIENT					
6		CLIENT					
7		CLIENT					
8		CLIENT					
9		CLIENT					

NOTE : For bigger bait loads, you will need to adjust the

BATT_VOLT_LOW parameter.

Make sure to discuss this with your dealer so that you know the risks.

When lowering the voltage parameter, make sure to always fly with a load of at least 1KG. DO NOT attempt to deplete the battery in-flight completely if you have lowered the parameter from the default setting.

SERVICE DOUMENT FOR CUTA-COPTER TRIDENT

TECHNICIAN:

DATE:

BOARD FLYTIME:

SERIAL NO:

BATTERY ARM VOLT	22.7
BATTERY LOW VOLT	21.6
VOLTAGE MULTIPLIER CALIBRATION	
ACC CAL / GYRO CALIBRATION	
FENCE SETTINGS	30/700
SERVO FUNCTION	
CAMERA FUNCTION	
RC SIGNAL LOSS TEST	PASS / FAIL
RESET SERVICE TIME INTERVAL	
DAMAGE REPORT	PROP CHECK FRAME CHECK REMOTE CHECK BAGCHECK BATTERY CHECK DROP SLING Corrosion
FACTORY TEST FLY	HOVER HOLD LEVEL FLIGHT STEADY RTH WORKING SAVE WP WORKING FLIGHT MODES: LOITER, ALT HOLD, AUTO

NOTES: EG. SAND, DAMAGE, CLEANING, Lua Script,



TRIDENT

www.cutacopter.net
www.cuta-copter.co.za

Contact Us

cutacopter@gmail.com
<https://cutacopter.net/contact-us/>

