INSTRUCTION BOOKLET

Palm Sized High Performance Drone

TAU™

FCC Part 15 C Notice
CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or experienced radio/TV technician for help.

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
2. This device must accept any interference, including interference that may cause undesired operation.

INDUSTRY CANADA NOTICE: CANADA ONLY.
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes : (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

CAN ICES-3 (B)/NMB-3(B)
This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.
Ce produit répond aux spécifications techniques pertinentes d’Innovation, Science et Développement économique applicables.

WARNING! CHOKING HAZARD - Small parts. Not suitable for children under 3 years.

Conforms to safety requirements of FCC.
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Made in China
V 1.0

PACKAGE CONTAINS:

TAU™ 2.4G Wireless Controller USB Charging Cord Spare Parts Instruction Booklet

Colors and styles may vary slightly

ARTWORK NO. DESCRIPTION MSDER DESIGNER DATE
C06-BBB-TAU IM 114.3x174.6mm Tina Johnny 2017/6/29

CHOKING HAZARD - Small parts. Not suitable for children under 3 years.
Thank you for purchasing the TAU™ 2.4 G Palm Sized High Performance Drone. Please read this instruction booklet as it contains valuable information on how to properly fly and care your TAU™.

TABLE OF CONTENTS
Features............................................................................................................ 2
Remote Battery Installation..................................................................................... 2
Charging Your TAU™ Battery.................................................................................. 2
TAU™ Quadrocopter Diagram............................................................................... 3
Remote Diagram.................................................................................................. 3
Removable Controller Grips.................................................................................... 3
Preparing For Flight............................................................................................... 4
Syncing Your TAU™................................................................................................. 4
Flying Tips.......................................................................................................... 4
Recognizing the Front and Rear of the TAU™......................................................... 5
Automatically Take OFF / LAND............................................................................ 5
Speed Setting Button.............................................................................................. 5
Understanding The Altitude Lock Sensor.............................................................. 5
T (Training)Mode.................................................................................................. 5
3/4 Channel Select.................................................................................................. 6
Forward / Backward Trim....................................................................................... 6
Banking Left / Right Trim...................................................................................... 6
4 Channel Flight Control....................................................................................... 7
3 Channel Flight Control....................................................................................... 8
Calibrating The TAU™.......................................................................................... 8
How To Do 360˚ Stunt Rolls............................................................................... 9
TAU™ Warnings................................................................................................... 10
Battery Warnings.................................................................................................. 10
Care and Maintenance.......................................................................................... 10
Replacing The Propeller Blade.............................................................................. 10
FCC Part 15 C Notice............................................................................................ 11

FEATURES
• Built in 6 axis gyroscopic chip keeps the TAU™ extremely stable in all conditions.
• New T (training ) mode helps beginner pilots learn how to fly.
• Automatically starts and lands with the push of a button.
• Unique switch blade technology allows for 3ch and 4ch flight modes.
• 3 different speed settings for slow to high speed flying.
• Air pressure sensor locks flight altitude.
• LED directional lights makes the TAU™ easy to follow.
• 2.4G radio allows for a 200 foot operational range.
• The TAU™ is engineered for incredible maneuverability including 360˚ aerial stunts!

REMOTE CONTROL BATTERY INSTALLATION
1. Unscrew the battery cover from the back of the remote control.
2. Install 2 "AAA" alkaline batteries into the battery pack as shown in the diagram.
3. Replace the battery cover and secure it.

CHARGING YOUR TAU™ BATTERY
1. Turn the TAU™ over and carefully remove the battery (see diagram A).
2. Slide the battery into the USB charger and then connect the USB charging cable to the charger (see diagram C). Connect the universal end of the USB cable to your computer's USB port (see diagram B). CAUTION: improper connection may damage the TAU™ battery.
3. Average charging time is about 70-90 minutes. Red LED indicator goes off when battery is fully charged. A full charge will allow for about 5-6 minutes of flight time depending on environment and user input.

IMPORTANT: ALWAYS REMEMBER TO UNPLUG YOUR CHARGING CORD WHEN NOT IN USE!

Note: Once connected to computer charger LED will flash if the battery is not inserted.
The LED will stay solid red when charging.
TAU™ QUADROCOPTER DIAGRAM

The safety guard is easy to clip on and off. Simply pull the clips away from each motor mount and remove the TAU™ from below. Note: Always have the safety guard attached when flying in T-Mode and Mode 1.

REMOTE DIAGRAM

REMOVABLE CONTROLLER GRIPS

Easily slides off and on. (see remote diagram)

WARNING

DO NOT FLY YOUR TAU™ IN FOUL WEATHER!

PREPARING FOR FLIGHT

• Verify that there are 2 “AAA” batteries inside the remote control unit and the TAU™ has been fully charged.
• Make sure to be in a large space with an open radius of at least 50 feet.
• Make sure the empty space has no obstacles or bodies of water. Set your TAU™ on a clean flat surface before take-off.

DO NOT ATTEMPT TO FLY YOUR TAU™ IF THERE IS RAIN, SNOW, HEAVY WINDS, THUNDER OR LIGHTNING OUTDOORS. IT COULD DAMAGE YOUR PRODUCT AND POSSIBLY EVEN CAUSE BODILY HARM.

SYNCING YOUR TAU™

Important! When syncing your TAU™ drone with the controller always make sure that the drone is on a flat level surface. This insures that the 6 Axis gyro is properly programmed to mimic your trim settings.
Your TAU™ utilizes an automatic 2.4G channel selection system that allows up to 8 people to fly side by side.

For One Person Play:
1. Before starting, make sure that your controller is turn OFF and the TAU™ battery is disconnected. Make sure that there are no other active 2.4G devices in the area as well.
2. Insert the battery into the TAU™ and set it down on a flat level surface. The white and red LED indicators of the TAU™ should flash rapidly.
3. Turn ON your remote and you will hear 2 short beeps. The controller power indicator will light up. The white and red LED lights on the quadcopter start flashing slowly. Now push the throttle all the way up, then down, you will hear 2 short beeps and the indicating LED lights will turn solid. Your TAU™ and remote should have successfully synced. Should this not happen, repeat all steps again.

For Multi Person Play:
4. Before starting, make sure that the power on all TAU™ and Controllers are turned OFF. Make sure that there are no other active 2.4G devices in the area as well.
5. Each person will have to sync their TAU™ individually at a different time to avoid interference. Follow steps 1 to 3 above making sure to keep away from other people while also making sure that no one else is syncing at the same time.
6. The player should leave his TAU™ on once synced and wait for all other players to successfully sync.
7. Should there be a mistake/interference, all players must turn off their controllers and TAU™ and start the process all over again.

FLYING TIPS

• It is recommended that you operate the TAU™ in a wide space. The ideal space should have a 200 foot radius.
• Parental guidance or adult supervision is suggested at all times.
• If you are flying the TAU™ with others, make sure all spectators are behind you.
• For best performance, it is recommended that you operate the TAU™ in zero wind conditions. Wind can greatly affect the performance of the TAU™.
NOW YOU ARE READY TO FLY!

If you have successfully synced your TAU™ to your controller as explained on page 4 you are now ready to fly. Before beginning to fly your drone you should familiarize yourself with how to start and stop the rotors, how to use your Auto Start and Auto Land feature and how the controls work so please carefully read and familiarize yourself with various control features explained in the next two pages. Once again as a beginner pilot you should learn how to control your drone in a large open field or park on a day with zero or very light wind. Do not try to fly your TAU™ too high until you become a more experience pilot.

RECOGNIZING THE FRONT AND REAR OF THE TAU™

Even though the TAU™ has four rotors there is still a “front” or “forward” facing direction and “rear” or “backward” facing direction. The “front” or “forward” facing direction of the TAU™ is the side with two eyes. The “rear” or “backward” facing direction of the TAU™ is where the battery compartment is. The TAU™ when in flight will also help you keep aware of the orientation with lighted LED lights in the arms of the TAU™.

NOTE: The front of the copter displays WHITE LED lights and the back of the copter displays RED LED lights.

AUTOMATICALLY TAKE OFF / LAND

Make sure you have properly synced The TAU™.
- Simply press the “start/land” button on the top of controller, your TAU™ will automatically take off.
- To stop or land the TAU™ just press the “START/LAND” button again and the TAU™ will descend and land automatically.

Tips: You also can move the two control sticks simultaneously down to the inside corners, hold them until you hear a “beep” and the blades start spinning. Release the control sticks and push up the throttle stick slowly to take off manually.

In case of emergency : to stop the rotors instantly, simply press the calibrate button on the top of the controller, located in the center.

UNDERSTANDING THE ALTITUDE LOCK SENSOR

The TAU™ has a unique Altitude Lock function, air pressure sensor that allows for easier flight control and stability. A beginner’s friend, it allows the user to ease into piloting the copter. The sensor locks in the altitude of the copter while allowing the user to adjust the directional controls without having to hold the throttle. After starting the copter, fly it upwards to a safe height. Once at a safe height, release the throttle to the neutral position. Now your TAU™ should be locked in the altitude and you can focus on getting used to the directional controls of the TAU™. The copter always will tends to self correct and go back to the last locked height after moved up or down by outside forces.

Note: The altitude sensor does have some tolerance based on atmospheric conditions and could have a slight variation in altitude.

SPEED SETTING BUTTON

The TAU™ has 4 speed settings: T (VERY SLOW), 1 (SLOW), 2 (MEDIUM) and 3(HIGH). The Default setting when you first turn on your TAU™ is mode 1 (SLOW). To increase the speed simply press the speed setting button (see remote diagram on page 3) You will hear beeping sound and the speed indicator will display the current speed setting with letter and Numbers. Letter T indicates speed level is very slow, Number 1 indicates slow speed, 2 indicates medium speed and 3 indicate high speed.

T (Training)MODE

Simply press and hold the Speed Setting Button you will hear a long beep and the speed indicator will change to “T”. Now you are in the T mode. T mode allows you to learn how to operate your TAU™ in a very slow speed. Also in T mode a minimums and maximum height limit is set to help avoid crashing into the ground or ceiling while learning. To exit T mode just press the speed setting button again.

3/4 CHANNEL SELECT

TAU™ allows you to control your Quadrocopter in 3 channel mode (beginner) or 4 channel mode (advanced flying). The TAU™ default setting is 4 Channel mode.

To change to 3 Channel mode: PRESS the 3CH button (see remote diagram on pg 3), you will hear 3 short beeps and the “3” light will light up on the controller indicating the TAU™ now is set to 3CH mode.

To change back to 4 Channel mode: PRESS the 4CH button (see remote diagram on pg 3), you will hear 4 short beeps and the “4” light will light up on the controller indicating the TAU™ now is set to 4CH mode.

UNDERSTANDING TRIM ADJUSTMENTS

Forward/Backward Trim

- If your TAU™ is moving forwards or backwards automatically, you may need to adjust the FORWARD/BACKWARD TRIM buttons.
- If your TAU™ flies forward, push and release the F TRIM button repeatedly until the moving stops and proper flight is maintained.
- If your TAU™ flies backwards, push and release the F TRIM button in the same manner until the problem is resolved.
- From time to time you may have to adjust the FORWARD/BACKWARD TRIM to ensure the TAU™ will hover in mid-air and respond accurately to your commands.

Banking Left/Right Trim

- If your TAU™ is not steadily hovering and is banking to the left or right automatically, you may need to adjust the BANKING TRIM buttons.
- If your TAU™ banks to the left, push and release the R TRIM button repeatedly until the banking stops and proper flight is maintained.
- If your TAU™ banks to the right, push and release the L TRIM button in the same manner until the problem is resolved.
- From time to time you may need to adjust the BANKING TRIM to ensure the TAU™ will steadily hover in mid-air and respond accurately to your commands.

NOTE: The use of the Trim buttons are accompanied with a Beep sound. A single long Beep indicates the product is center trimmed. If there is no beep sound after press the trim button, it indicates the maximum range of the trim on a particular side.
4 CHANNEL FLIGHT CONTROL

Below is a list of basic flight functions for your long-range remote control TAU™. While learning to fly your TAU™, it is best to start with a large space until you get used to the basic controls. As you master flying your TAU™, you can move to more advanced maneuvering techniques. Practice makes perfect! When you have these basic steps down you can move to the next level.

Move the Throttle up to increase the speed of the motors and the TAU™ will rise up.

Move the Throttle down to decrease the speed of the motors and the TAU™ will descend.

Move the Throttle stick left and the TAU™ will rotate left.

Move the Throttle stick right and the TAU™ will rotate right.

Move the Direction Control up and the TAU™ will move forward.

Move the Direction Control down and the TAU™ will move backward.

Move the Direction Control left and the TAU™ will bank to the left.

Move the Direction Control right and the TAU™ will bank to the right.

CALIBRATING THE TAU™

If the TAU™ becomes unstable during the course of flying, you may need to calibrate the internal gyros. To do this place the TAU™ on a flat level surface, short press the CALIBRATE button on the top of remote controller. The LEDs on the TAU™ will flash quickly and then remain solid, this indicates your drone has been recalibrated (see diagram C).

3 CHANNEL FLIGHT CONTROL

Below is a list of basic flight functions for your long-range remote control TAU™. While learning to fly your TAU™, it is best to start with a large space until you get used to the basic controls. As you master flying your TAU™, you can move to more advanced maneuvering techniques. Practice makes perfect! When you have these basic steps down you can move to the next level.

Move the Throttle up to increase the speed of the motors and the TAU™ will rise up.

Move the Throttle down to decrease the speed of the motors and the TAU™ will descend.

Move the Throttle stick left and the TAU™ will rotate left.

Move the Throttle stick right and the TAU™ will rotate right.

Move the Direction Control up and the TAU™ will move forward.

Move the Direction Control down and the TAU™ will move backward.

Move the Direction Control left and the TAU™ will bank to the left.

Move the Direction Control right and the TAU™ will bank to the right.
HOW TO DO 360° STUNT ROLLS
1. In order to make your TAU™ do 360° rolls you must fully charge your battery.  
   Note: The TAU™ will not do 360° stunt rolls in T-Mode, Mode1 and under low battery indication (When the LED lights on the drone is flashing slowly).
2. Once you are ready to attempt a 360° roll, simply press and let go of the “STUNT” button on the top right hand side of your controller (see Remote Diagram D), you will hear continuous beeping sounds. This means you are now in “STUNT MODE”
3. Now quickly move your right control stick in any of 4 directions; up, down, left or right and your TAU™ copter will instantly roll in the associated direction. (See diagram E). And the beeping sounds will stop.
   NOTE: To exit the stunt mode manually if you wish not to do the stunt roll, you can press the stunt button again and the beeping sounds will stop too.

TAU™ WARNING:
The TAU™ is designed for INDOOR and OUTDOOR use. The TAU™ blades revolve at high speeds and can cause damage to the user, spectators and animals. Stand away from the TAU™ to reduce the risk of getting into the flight path. Warn spectators that you will be flying your TAU™ so that they are aware of its position. Before flight, inspect the rotor blades to make certain that the blades are securely fastened to the TAU™.

WARNING!
• Choking/Cutting Hazard. Small Parts/Sharp Rotor Blades.
• Keep hands, hair and loose clothing away from the propeller when the battery is plugged in.
• Turn off the controller and take out the battery from the TAU™ battery compartment when not in use.
• The included charger is built specifically for the TAU™ Li-Poly battery. Do not use it to charge any other battery.
• New alkaline batteries for controller are recommended for maximum performance.
• Parental supervision is recommended when flying the TAU™.

BATTERY WARNINGS

RECHARGEABLE BATTERY:
This TAU™ uses a Li-Poly rechargeable battery which has limited life cycles. If battery can no longer be charged, dispose the battery properly according to local disposal requirements.

CONTROLLER BATTERIES:
Remote control requires 2 “AAA” batteries (not included). Please read the important battery safety warning below.
• Do not mix alkaline, standard (carbon-zinc) and rechargeable batteries (Nickel Metal Hydride).
• Do not mix old and new batteries.
• Non-rechargeable batteries are not to be recharged.
• Rechargeable batteries are only to be charged under adult supervision.
• Exhausted batteries should be removed immediately and must be recycled or disposed of properly according to state or local government ordinances and regulations.
• The supply terminals are not to be short-circuited.
• Only batteries of the same or equivalent type as recommended are to be used.
• Batteries are to be inserted with the correct polarity (see inside booklet for diagram).
• Do not dispose of batteries in a fire - batteries may leak or explode.

CARE AND MAINTENANCE
• Always remove the batteries from the controller when it is not being used for an extended period of time.
• To clean, gently wipe the remote control and TAU™ with a clean damp cloth.
• Keep the toy away from direct heat or sunlight.
• Do not submerge the toy into water. This can damage the unit beyond repair.
• Parental guidance recommended when installing or replacing the batteries.

REPLACING THE PROPELLER BLADE
Your TAU™ propeller system is a precision instrument that may need repair or replacement from time to time for optimal flight function. Crash landing from high-speed aerial flights may cause damage to your TAU™’s propellers.
1. TAU™ have four blades, two gray propellers on the front, and two black propellers on the back.
   Please note that the blades and the TAU™ are labeled with an embossed A or B (see the diagram F).
2. When replacing the propeller blades, gently remove the blade from the rotor shaft. Make sure to match both the color of the blade and the indication letter on the blade to the diagram F.
3. Replace the damaged blade with the correct blade.

GRAY BLADE FRONT LEFT = A
GRAY BLADE FRONT RIGHT = B
BLACK BLADE REAR LEFT = B
BLACK BLADE REAR RIGHT = A