IMPORTANT NOTE: All safety precautions and warnings, instructions, warranties and other collateral information is subject to You must always charge the LiPo battery in a safe, well-ventilated area away from flammable materials. change at the sole discretion of Yuneec. For the most up-to-date information please visit the corresponding product page at Never charge the LiPb battery unattantiated at any time. When charging the battery you must always remain in constant observation www.Yuneec.com or contact the nearest Yuneec office or authorized distributo

The following special language terms are used throughout the product literature to indicate various levels of potential harm After flying/discharging the LIPo battery you must allow it to cool to ambient/room temperature before recharging when operating this product:

NOTICE: Procedures, which if not properly followed, create a possibility of property damage and/or little to no possibility of injury. CAUTION: Procedures, which if not property followed, create the probability of property damage and/or a possibility of serious injury. If at any time the LiPo battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely

serious injury or create a high probability of superficial injury.

before operating. Failure to operate the product correctly can result in damage to the product, property and/or cause serious injury. flight duration or failure of the battery entirely. LIPo cells should not be discharged to below 3.0V each under load. WARNING: This is a sophisticated consumer product. It must be operated with caution and common sense, and requires some Store the LiPo battery at room temperature and in a dry area for best results. basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in damage to the product, When charging, transporting or temporarily storing the LiPo battery the temperature range should be from approximately 40-120° use with incompatible components or alter this product in any way outside of the instructions provided by Yuneec. The quick be damaged or even catch fire. start guide and instruction manual contain instructions for safety, operation and maintenance. It is essential to read and follow Never leave batteries, chargers and power supplies unattended during use all the instructions and warnings prior to assembly, setup and/or use in order to operate the product correctly and avoid damage Never attempt to charge low voltage, ballooned/swollen, damaged or wet batteries. or serious injury

AGE RECOMMENDATION: NOT FOR CHILDREN UNDER 14 YEARS. THIS IS NOT A TOY.

GENERAL SAFETY PRECAUTIONS AND WARNINGS

WARNING: Failure to use this product in the intended manner as described in the quick start guide and instruction manual can Always disconnect the battery after charging. result in damage to the product, property and/or cause serious injury. A Radio Controlled (RC) multirotor aircraft, APV platform, Always terminate all processes if the battery, charger or power supply malfunctions. drone, etc. is not a toy! If misused it can cause serious bodily harm and damage to property.

WARNING: As the user of this product you are solely and wholly responsible for operating it in a manner that does not endanger FCC STATEMENT: yourself and others or result in damage to the product or the property of others.

loose clothing, etc.

Always operate your aircraft in open areas that are free from people, vehicles and other obstructions. Never fly near or above crowds, airports or buildings.

To ensure proper operation and safe flight performance never attempt to operate your aircraft nearby buildings or other obstructions that do not offer a clear view of the sky and can restrict GPS reception

Do not attempt to operate your aircraft in areas with potential magnetic and/or radio interference including areas nearby broadcast towers, power transmission stations, high voltage power lines, etc.

Always keep a safe distance in all directions around your aircraft to avoid collisions and/or injury. This aircraft is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control. o ensure proper and safe operation of the automatic landing function in Home Mode you must start the motors with the aircraft in a position that has at least 10 feet (approximately 3 meters) of clear and open space around it and achieve a proper GPS lock. Do not attempt to operate your aircraft with any worn and/or damaged components, parts, etc. (including, but not limited to, 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 damaged propellers/rotor blades, old batteries, etc.)

Never operate your aircraft in poor or severe weather conditions including heavy winds, precipitation, lightning, etc. audible alerts from the transmitter/personal ground station

Always operate your aircraft when the voltage of the battery in the transmitter/personal ground station is in a safe range (as indicated by the battery charge status icon on the screen of the transmitter/personal ground station).

Always keep the aircraft in clear line of sight and under control, and keep the transmitter/personal ground station powered on while the aircraft is powered on.

Always move the throttle control stick down fully and turn off the motors in the event the propellers/rotor blades come into contact with any objects.

Always allow components and parts to cool after use before touching them and flying again

Always remove batteries after use and store/transport them per the corresponding guidelines.

causes damage to electronic components and parts.

Never place any portion of the aircraft or any related accessories, components or parts in your mouth as doing so could cause and transmitter operating conditions for satisfying RF exposure compliance. serious injury or even death.

Always keep chemicals, small parts and electronic components out of the reach of children.

Carefully follow the instructions and warnings included with this aircraft and any related accessories, components or parts (including, but not limited to, chargers, rechargeable batteries, etc.).

CAUTION: The electronic speed controls (ESCs) installed in TYPHOON are not compatible with any other product, and TYPHOON is not compatible with any other ESCs. Use of any other ESCs in TYPHOON will cause a crash, which may result in damage to the product, property and/or cause serious injury.

BATTERY WARNINGS AND USAGE GUIDELINES

and warnings must be followed exactly to prevent property damage and/or serious injury as the mishandling of LiPo batteries can result in fire. By handling, charging or using the included LiPo battery you assume all risks associated with LiPo batteries. If you do not agree with these conditions please return the complete product in new, unused condition to the place of purchase immediately.

to monitor the charging process and react immediately to any potential problems that may occur.

charge the LiPo battery you must use only the included charger or a suitably compatible LiPo battery charger. Failure to do so may

result in a fire causing property damage and/or serious injury

disconnect the battery, then place it in a safe, open area away from flammable materials to observe it for at least 15 minutes. WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage and/or Continuing to charge or discharge or dis swollen even a small amount must be removed from service completely.

WARNING: Read the ENTIRE quick start guide and instruction manual to become familiar with the features of the product Do not over-discharge the LiPo battery. Discharging the battery too low can cause damage to the battery resulting in reduced power,

property and/or cause serious injury. This product is not intended for use by children without fleret adult supervision. Do not F (5-49° C). Do not store the battery or aircraft in a hot garage, car or direct sunlight. If stored in a hot garage or car the battery can

Never allow children under 14 years of age to charge batteries.

Never charge a battery if any of the wire leads have been damaged or shorted.

Never attempt to disassemble the battery, charger or power supply.

vever drop batteries, chargers or power supplies.

Always inspect the battery, charger and power supply before charging.

Always ensure correct polarity before connecting batteries, chargers and power supplies.

Keep your hands, face and other parts of your body away from the spinning propellers/rotor blades and other moving parts at This equipment has been tested and found to comply with the limits for Part 15 of the FCC rules. These limits are designed to provide all times. Keep items that could impact or become entangled away from the propellers/rotor blades including debris, parts, tools, frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio

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.

crease the separation between the equipment and receiver.

Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

his 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 received, including interference that may cause undesired operation.

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, Always operate your aircraft starting with a fully charged battery. Always land as soon as possible after the first level low voltage may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a battery warning or land immediately after the second level low voltage battery warning (as indicated by the vibrations and particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by irning 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 receive

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

RE EXPOSURE WARNING

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter Avoid water exposure to all electronic components, parts, etc. not specifically designed and protected for use in water. Moisture must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions

IC RADIATION EXPOSURE STATEMENT FOR CANADA

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 of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est utorisée 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

WARNING: Lithium Polymer (LiPo) batteries are significantly more volatile than alkaline, NiCd or NiMH batteries. All instructions This equipment complies with IC RSS-102 radiation exposure limit set forth for an uncontrolled environment.

QUICK START GUIDE









- 1 CGO3 Gimbal Camera
- 2 Camera Microphone
- 3 Camera LED Status Indicator
- 4 Camera Lens
- 5 5.8GHz Antenna
- 6 Main LED Status Indicator
- 7 Power Switch
- 8 Proportional Control Rate Slider
- 9 USB Connector/Charging Port

- 10 Audio/Earphone Jack
- 11 Take Still Photo Button
- 12 Start/Stop Motors Button
- 13 Rudder/Yaw Control (for Mode 2 and Mode 1)
- 14 Throttle/Altitude Control (for Mode 2) Elevator/Pitch Control (for Mode 1)
- 15 5.8GHz Antenna (located inside the case)
- 16 Status Indicators (for ST10+ battery, 5.8GHz WiFi and GPS)

- 17 2.4GHz Antenna (located inside the handle)
- 18 Start/Stop Video Recording Button
- 19 Flight Mode Selection Switch
- 20 Aileron/Roll Control (Mode 2 and Mode 1)
- 21 Elevator/Pitch Control (Mode 2) Throttle/Altitude Control (Mode 1)
- 22 Power Switch
- 23 Volume and Navigation Touch-Activated Buttons Volume Down/VolumeUp/Menu/Home/Back)
- 24 CGO3 Pitch Angle/Position Control Slider
- 25 SD Card Slot (located under the battery)



WWW.YUNEEC.COM

IMPORTANT NOTE:

This Ouick Start Guide is NOT intended to replace the content included in the instruction manual. You should read the instruction manual completely before proceeding.

1. CHARGING THE BATTERIES

Power the SC3500-3 charger from a 100-240V AC outlet using the AC adapter/power supply, or from a 12V DC accessory socket/cigarette lighter receptacle in a vehicle using the included adapter.



A green blinking LED indicates the charger is powered on and ready to charge, and a red blinking LED indicates the battery is charging. It will take approximately 2 hours to charge a fully discharged (not over-discharged) battery.



WARNING: All instructions and warnings must be followed exactly to prevent property damage and/or batteries can result in fire.

2. PREPARING THE CGO3

2.1 Remove the cover/lock from the rear of the CGO3 by carefully sliding backward.



camera lens

INSTALLING THE PROPELLER

Install the corresponding A and B propellers in the positions shown by rotating them per the illustration and until they're secure. It may also be helpful to use the included tool to hold the motors while installing the propellers



serious injury as the mishandling of Li-ion/LiPo CAUTION: Do not over-tighten the propellers when surface before powering ON the Controller and using the tool.

4. INSTALLING THE BATTERY



2.3 Carefully remove the NOTE: If the door does not close, the battery is not protective material from the inserted far enough to engage the connector

5. PLACEMENT BEFORE TAKEOFF



trees and other obstructions. Never fly near or locked) above crowds, airports or buildings.



Never attempt to operate TYPHOON nearby tall buildings/obstructions that do not offer a clear view of the sky (a minimum clearance of 100°).

Be sure to place TYPHOON on a level and stable Aircraft



Step back approximately 26 feet (8 meters) behind TYPHOON.

6. POWERING ON/OFF

NOTE: ALWAYS turn the ST10+ on and allow it to boot up BEFORE turning TYPHOON on (and ALWAYS turn TYPHOON off BEFORE turning off the ST10+).

Place TYPHOON on a level and stable surface then slide the switch to the 'ON' position DO NOT TOUCH OR MOVE TYPHOON UNTIL THE INITIALIZATIONPROCESS IS COMPLETE. The main WARNING: Always operate TYPHOON in open IFD status indicator will glow solid green (Smart areas (approximately 10000 square feet/930 square Mode) or solid purple (Angle/Pilot Mode) when meters or more) that are free from people, vehicles, initialization is complete (and TYPHOON GPS is





If indoor flight is needed, please turn off the GPS first Press setting button & on ST10+ interface and switch off the GPS.

When the CGO3 and ST10+, the multi-copter and ST10+ are bound, press 🛱 , optional choices of video settings and Audio Switch will be shown above.



If calibration is needed before flight, Please press calibration button enables the user to enter Compass calibration or Accelerometer calibration. The detailed calibration operation can be referred to the User Manual on www.vuneec.com.

7. STARTING/STOPPING THE MOTOR



Step back approximately 26 feet (8 meters) behind TYPHOON, Press and hold the red START/STOP button for about 3 seconds to start, and about 2 seconds to stop the motors.

8. FLIGHT CONTROLS

To takeoff, slowly raise the left-hand stick to slightly above the center position. TYPHOON will takeoff hold its position (with a suitable GPS signal/lock) and climb slowly (or raise the stick further until it when both control sticks are centered. You can also does). Allow the stick to return to the center position activate Home Mode so TYPHOON automatically when TYPHOON reaches the desired altitude.



various control inputs while flying. In Smart Mode at any time the Aircraft Battery Voltage shown on TYPHOON will always move in the direction the the screen is below 10.7V, land TYPHOON right-hand control stick is pushed relative to the pilot immediately. and no matter which way the front/nose is pointed. In Angle (Pilot) Mode TYPHOON will move in the AFTER LANDING direction the control stick is pushed relative to the front/nose of the aircraft (and the 'angle' of movement is determined by how far you push the stick away from the center position). And please see the corresponding sections of this instruction manual for more information on Smart Mode and Angle (Pilot) Mode



IMPORTANT NOTE: If at any time during flight you feel like TYPHOON is drifting out of/beyond your control, simply release both control sticks. TYPHOON will automatically self-level and will even flies itself back to the home point and lands.

LANDING

There are two ways to land TYPHOON:

1) Position TYPHOON above the area where you would like to land. Slowly lower the left-hand stick to below the center position. TYPHOON will descend control stick. slowly and land. After TYPHOON lands, press and hold the red START/STOP button until the motor

Activate Home Mode and TYPHOON will automatically fly itself back to the home point and will land within a 10 foot (3 meter) diameter circle around it.

WARNING: Always land as soon as possible after the first level low voltage battery warning, or land immediately after the second level low voltage battery warning (as indicated by the vibrations and audible alerts from the ST10+, and by the Below Take your time learning how TYPHOON responds to Motor LED Status Indicators flashing rapidly). And if

ALWAYS turn off TYPHOON BEFORE turning off the ST10+. Then remove the battery from TYPHOON and allow it to cool to ambient/room temperature before recharging.

9. CONTROL RATE SLIDER

Set the overall climb/descend and directional control rates. Use the turtle position for the lowest control Level). Use the rabbit position for the highest control flying below 5000 feet AMSL.



10. SELECTING A FLIGHT MODE

TYPHOON is programmed with three (3) flight modes that can be selected via the Flight Mode Selection Switch located just above the right-hand



) When the flight mode switch is in the top position YPHOON will be in Smart Mode

2) When the flight mode switch is in the middle position TYPHOON will be in Angle (also known as Pilot) Mode.

3) When the flight mode switch is in the lowest position TYPHOON will be in Home Mode.

11. FLIGHT MODES

SMART MODE

When the Flight Mode Selection Switch is the top rates (best for first-time pilots and when fiving position TYPHOON will be in Smart Mode. Although between 5000 feet and 8000 feet Above Mean Sea we recommend learning to fly TYPHOON in Angle (Pilot) Mode as soon as possible, Smart Mode is rates (best for experienced pilots and only when typically the best mode for first-time pilots to flv in and also features 'Follow Me'.

> In Smart Mode TYPHOON will always move in the direction the right-hand control stick is pushed relative to the pilot and no matter which way the front/nose is pointed. So if you push the stick to the left TYPHOON will always move to the left. regardless of the direction the nose is pointing and even if it's spinning. This mode can also be helpful for pilots that lose orientation while flying in Angle (Pilot) Mode

This illustration applies when the controller is pointed towards the aircraft



Additional Smart Mode Features:

FOLLOW ME FUNCTION

The Follow Me function allows the TYPHOON to follow the pilot, adjusting its location to the location of the ST10+. This function is enabled when ST10+ GPS positioning completes, and the TYPHOON is using shared GPS signal with the ST10+. At this time, you will see orange 🥺 , and green follow in When in Follow Me function the TYPHOON will



follow the movement of ST10+ if there is no extra operation on the ST10+. The flight status is also controllable when you operate ST10+ and CGO3.

MPORTANT NOTE: In Follow Me function, the aircraft will maintain a constant altitude and cannot detect obstacles. Pilots who change their altitude by for example, moving to higher ground, during flight should be mindful of this.



WATCH ME FUNCTION

Watch Me function enables the camera to keep tracking the remote controller no matter where and how it moves as the camera can automatically tilt its angle according to the controller. Usually, the default function under Smart Mode is

Follow Me. Watch Me function can be switched to by following steps:



In Watch Me function, the pilot will always be kept in the frame wherever he moves.



Watch Me/Follow Me Button: When in Smart Mode, press To switch the TYPOON between Watch Me and Follow me function. Follow Me function is the default setting, and the button is ORANGE. If it is GREY, it means ST10+ GPS isn't ready yet. Please wait.



Press 💽 , the button will change from ORANGE to GREEN. And now it is in Watch Me function. NOTE: Once the TYPHOON is above 2m and out of

Smart Circle during flying, the TYPHOON yaw direction will take the control itself. Camera lens will always point to you as long as Flight Mode Selection Switch is in Smart Mode. Please put the CGO3 Pitch Angle/Position Control Slider in the middle position. If you want to trim camera angle up, then just move the Pitch Angle/Position Control Slider a bit up. If you want to trim camera angle down, just move the slider down.

*SMART CIRCLE

In most cases the Smart Circle will keep TYPHOON from coming within approximately 26 feet (8 meters) of you (as long as you position yourself at least 26 feet/8 meters behind TYPHOON.

GEO-FENCE

The geo-fence is a virtual 'barrier' that will keep TYPHOON from traveling further than 300 feet (91 meters). Although this limit can be adjusted using the USB interface/programmer and softwar we strongly

recommend using the default limit at all times.

WARNING: Smart Mode only works when TYPHOON has a suitable GPS signal/lock. If you take off in Smart Mode and TYPHOON loses GPS signal/lock it will switch to Angle (Pilot) Mode automatically. This is why we strongly recommend learning to fly in Angle (Pilot) Mode as soon as possible. Otherwise, if vou lose GPS signal/lock and are not able to properly control TYPHOON in Angle (Pilot) Mode the aircraft may crash or even 'fly away'.

IMPORTANT NOTE: Crash damage and 'fly aways' are NOT covered under warranty.

IMPORTANT NOTE: When the ST10+ Personal Ground Station is connected to less then 6 satellites. the 'FOLLOW ME' feature will be disabled.

ANGLE (PILOT) MODE

When the Flight Mode Selection Switch is the middle position TYPHOON will be in Angle (also known as Pilot) Mode.

Angle (Pilot) Mode is the mode preferred by experienced RC/drone pilots because TYPHOON will move in the direction the control stick is pushed relative to the front/nose of the aircraft. So if you push the right-hand stick to the left TYPHOON will bank toward the left side and move to the left. This means if the front/nose of TYPHOON is pointing away from you it will move to the left, but if the front/nose is pointing at you TYPHOON will move to the right.

> Additional Angle (Pilot) Mode Feature:

POSITION HOLD ANI SELF-LEVELING

TYPHOON automatically hold its position (with a suitable GPS signal/lock) and maintain a level attitude when the right-hand stick is centered.

> Mode 2 shown

WARNING: If you do not properly control TYPHOON in Angle (Pilot) Mode the aircraft may TYPHOON will maintain the current altitude, fly crash or even 'fly away'.

IMPORTANT NOTE: Crash damage and 'fly aways' are NOT covered under warranty.

HOME MODE

When the Flight Mode Selection Switch is in the bottom position TYPHOON will be in Home (also known as Return to Home) Mode.



In Home Mode the GPS connectivity will fly back within 13-26 ft (4-8m) of the pilot. This can be verv crash or even 'fly away'. land TYPHOON themselves. It can also be helpful are NOT covered under warranty. for pilots that lose orientation during flight: simply activate Home Mode until TYPHOON automatically 12 CAMERA CONTROLS moves toward the home position, and once you've confirmed orientation switch back to Angle (Pilot) Mode. And if TYPHOON ever loses the link with the ST10+ it will automatically enter Home Mode.

When Home Mode is activated TYPHOON will respond as follows:

A) When flying higher than 33 feet (10 meters) Take Still Photo = Button A back to the home point, or active home point if the ST10+ has enough satellites for Follow Me, then descend vertically until it lands.

B) When flying lower than 33 feet (10 meters) TYPHOON will climb to 33 feet (10 meters) while flying back to the home point, or active home position, then will descend vertically until it lands.



obstacles in the 'Return to Home' flight path otherwise TYPHOON may come into contact with CAUTION: ALWAYS stop recording video before TYPHOON and allow it to cool to ambient/room them and crash. And while TYPHOON is in Home turning off TYPHOON/CGO3 to avoid data loss. If temperature before recharging. Mode you will have a limited amount of directional you accidentally turn off TYPHOON/CGO3 before control. To help avoid obstacles we strongly vou stop recording, re-insert microSDcard (if R) Double tap the center of the screen to recommend to switch to Smart or Angle Mode (then removed) and turn the system on again. Wait you can switch back to Home Mode).

WARNING: Home Mode only works when TYPHOON has a suitable GPS signal/lock. If TYPHOON loses GPS signal/lock it will switch to Angle (Pilot) Mode automatically. This is why we strongly recommend learning to fly in Angle (Pilot) Mode as soon as possible. Otherwise, if you lose TYPHOON in a straight line in the direction of the GPS signal/lock and are not able to properly control pilots' current location, and automatically land TYPHOON in Angle (Pilot) Mode the aircraft may

helpful for first-time pilots who aren't guite ready to IMPORTANT NOTE: Crash damage and 'fly aways'



Start/Stop Recording Video = Button B



Use the slider (C) on the left side of the ST10+ to set the pitch/tilt position (D) of the CGO3.

CGO3. You MUST stop recording video in order to product, property and/or cause serious injury. take still photos. It will take 1-2 seconds to capture a CAUTION: You must be certain there are no still photo and before you can take another.

> approximately 20 seconds until the camera LED starts to glow solid green indicating the last video file was recovered.

please choose CGO3 PRO in ST10+ camera the official website. selection. For further information on CGO3 PRO please refere to the Q500 4K USER MANUAL



13. ST10+ DISPLAY

3840 x 2160 F30 ngs 🛛 🔛 Flight Settings 🖌 🐜 Mor

) Flight Mode of Aircraft 3) Watch Me/Follow Me Button) GPS Status for Aircraft 4) In Flight Settings

WARNING: NEVER attempt to fly TYPHOON via First-Person View (FPV). Attempting to fly via FPV CAUTION: In ST10+, the default Camera Mode is can result in a crash that will cause damage to the

MDODTANT NOT

After flying, turn off TYPHOON BEFORE turning off he ST10+ Then remove the battery from



Any information above might be changed due to the software update NOTE: If you want professional camera application, For the latest documents, please check

> THE FOLLOWING DOCUMENTS ARE AVAILABLE FOR DOWNLOAD AT

WWW.YUNEEC.COM/SUPPORT

- The full TYPHOON 0500 4K Manual
- Calibration Sheet
- LED Status Indication Sheet
- Graphic User Interface
- Firmware Updates
- Tutorial Videos

