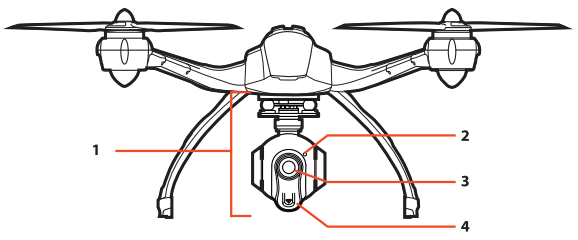
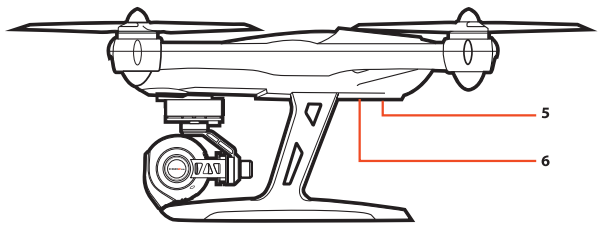
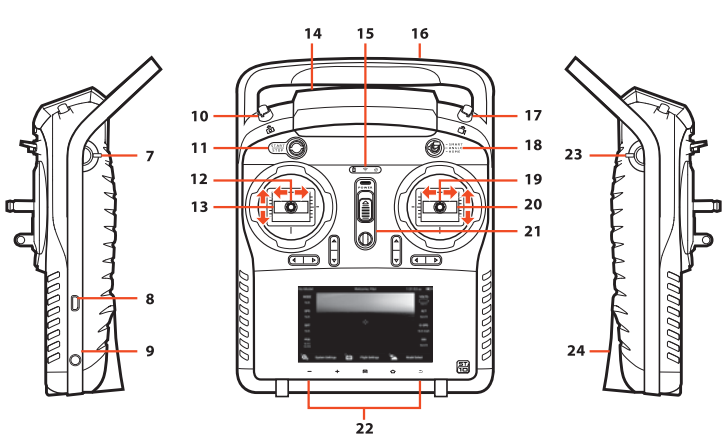
Q500 TYPHOON

QUICK START GUIDE







1 CGO2-GB Gimbal Camera
2 Camera LED Status Indicator
3 Camera Lens
4 5.8GHz Antenna
5 Power Switch
6 Main LED Status Indicator
7 Proportional Control Rate Slider
8 USB Connector/Charging Port
9 Audio/Earphone Jack
10 Take Still Photo Button
11 Start/Stop Motors Button
12 Rudder/Yaw Control *(for Mode 2 and Mode 1)*
13 Throttle/Altitude Control *(for Mode 2)*
Elevator/Pitch Control *(for Mode 1)*
14 5.8GHz Antenna *(located inside the case)*
15 Status Indicators (for ST10 battery, 5.8GHz WiFi and GPS)
16 2.4GHz Antenna *(located inside the handle)*
17 Start/Stop Video Recording Button
18 Flight Mode Selection Switch
19 Aileron/Roll Control *(Mode 2 and Mode 1)*
20 Elevator/Pitch Control *(Mode 2)*
Throttle/Altitude Control *(Mode 1)*
21 Power Switch
22 Volume and Navigation Touch-Activated Buttons
(Volume Down/Volume Up/Menu/Home/Back)
23 CGO2-GB Pitch Angle/Position Control Slider
24 SD Card Slot *(located under the battery)*

Q500 TYPHOON

YUNEEC ELECTRIC AVIATION

Q500 QUICKSTART V2.1

WWW.YUNEEC.COM

NOTICES AND WARNINGS

IMPORTANT NOTE: All safety precautions and warnings, instructions, warranties and other collateral information is subject to change at the sole discretion of Yuneec. For the most up-to-date information please visit the corresponding product page at www.Yuneec.com or contact the nearest Yuneec office or authorized distributor.

The following special language terms are used throughout the product literature to indicate various levels of potential harm 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 properly followed, create the probability of property damage and/or a possibility of serious injury.
WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage and/or serious injury or create a high probability of superficial injury.
WARNING: Read the ENTIRE quick start guide and instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, property and/or cause serious injury.
WARNING: This is a sophisticated consumer product. It must be operated with caution and common sense, and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in damage to the product, property and/or cause serious injury. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Yuneec. The quick start guide and instruction manual contain instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings prior to assembly, setup and/or use in order to operate the product correctly and avoid damage 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 result in damage to the product, property and/or cause serious injury. A Radio Controlled (RC) multirotor aircraft, APV platform, 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 yourself and others or result in damage to the product or the property of others.
Keep your hands, face and other parts of your body away from the spinning propellers/rotor blades and other moving parts at all times. Keep items that could impact or become entangled away from the propellers/rotor blades including debris, parts, tools, 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.
Do not attempt to operate your aircraft above 8000 feet (2438 meters) AMSL (Above Mean Sea Level).
Do not attempt to operate your aircraft in winds that exceed 8–12 miles per hour (13–19 kilometers per hour).
To ensure proper and safe operation of the automatic landing function in 'Home' mode you must turn your aircraft on in a position with 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, damaged propellers/rotor blades, old batteries, etc.).
Never operate your aircraft in poor or severe weather conditions including heavy winds, precipitation, lightning, etc.
Always operate your aircraft starting with a fully charged battery. 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 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 before flying again.
Always remove batteries after use and store/transport them per the corresponding guidelines.
Avoid water exposure to all electronic components, parts, etc. not specifically designed and protected for use in water. Moisture 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 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 the Q500 are not compatible with any other product, and the Q500 is not compatible with any other ESCs. Use of any other ESCs in the Q500 will cause a crash, which may result in damage to the product, property and/or cause serious injury.

BATTERY WARNINGS AND USAGE GUIDELINES

WARNING: Lithium Polymer (LiPo) batteries are significantly more volatile than alkaline, NiCd or NiMH batteries. All instructions 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.

You must always charge the LiPo battery in a safe, well-ventilated area away from flammable materials.
Never charge the LiPo battery unattended at any time. When charging the battery you must always remain in constant observation to monitor the charging process and react immediately to any potential problems that may occur.
After flying/discharging the LiPo battery you must allow it to cool to ambient/room temperature before recharging.
To 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.
If at any time the LiPo battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely disconnect the battery, then place it in a safe, open area away from flammable materials to observe it for at least 15 minutes. Continuing to charge or discharge a battery that has begun to balloon or swell can result in a fire. A battery that has ballooned or swollen even a small amount must be removed from service completely.
Do not over-discharge the LiPo battery. Discharging the battery too low can cause damage to the battery resulting in reduced power, flight duration or failure of the battery entirely. LiPo cells should not be discharged to below 3.0V each under load.
Store the LiPo battery at room temperature and in a dry area for best results.
When charging, transporting or temporarily storing the LiPo battery the temperature range should be from approximately 40–120° 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 be damaged or even catch fire.
Never leave batteries, chargers and power supplies unattended during use.
Never attempt to charge low voltage, ballooned/swollen, damaged or wet batteries.
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.
Never 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.
Always disconnect the battery after charging.
Always terminate all processes if the battery, charger or power supply malfunctions.

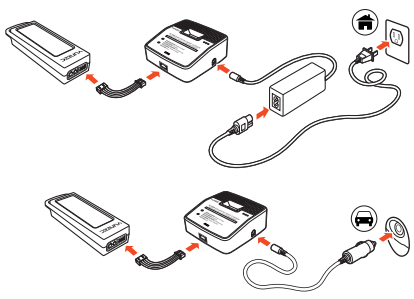
Q500 TYPHOON — QUICK START GUIDE

IMPORTANT NOTE:

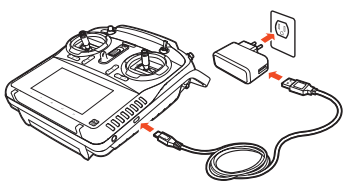
This Quick Start Guide is NOT intended to replace the content included in the instruction manual. You should read the instruction manual completely before proceeding.

1 Charge 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.

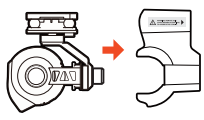


A green blinking LED indicates the charger is powered on and ready to charge, and a red blinking LED indicates the battery is charging. It will take approximately 2 hours to charge a fully discharged (not over-discharged) battery.



WARNING: All instructions and warnings must be followed exactly to prevent property damage and/or serious injury as the mishandling of LiIon/LiPo batteries can result in fire.

2 Prepare the CGO2-GB

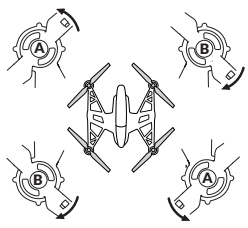


2.1 Remove the cover/lock from the rear of the CGO2-GB by carefully sliding it backward.

2.2 Insert the included 8GB card or any Class 10 microSD card from 4GB to 128GB.

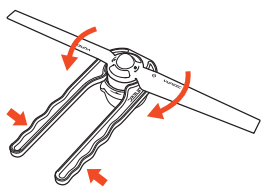
2.3 Carefully remove the protective material from the camera lens .

3 Install the Propellers



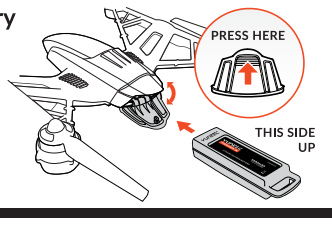
CAUTION: Do not over-tighten the propellers when using the tool.

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.



4 Install the Battery

NOTE: If the door will not close the battery is not inserted far enough to engage the connector properly.

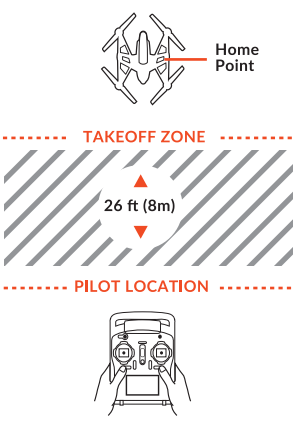


5 Placement before Takeoff

WARNING: Always operate the Q500 in open areas (approximately 1000 square feet/93 square meters or more) that are free from people, vehicles, trees and other obstructions. Never fly near or above crowds, airports or buildings.

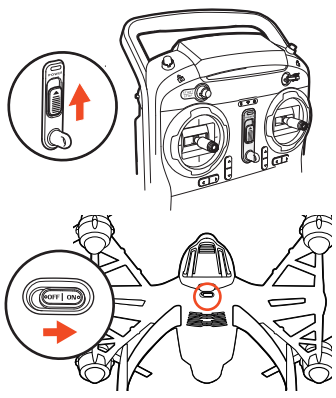
Never attempt to operate the Q500 nearby tall buildings/obstructions that do not offer a clear view of the sky (a minimum clearance of 100°).

WARNING: The home point/position is set when the motors are started. When the home point is set the Q500 must be approximately 26 feet (8 meters) from where the pilot will stand AND the front of the aircraft MUST be pointed away from the pilot. If the Q500 is pointed in any other direction the controls will not function properly relative to your position when flying in Smart Mode which may result in personal injury or damage to property. Once the motors are started you must NOT change your position except to rotate in place so you are always facing the Q500.



6 Powering ON/OFF

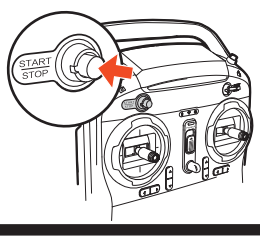
ALWAYS turn the ST10 on and allow it to boot up BEFORE turning the Q500 on (and ALWAYS turn the Q500 off BEFORE turning off the ST10).



Place the Q500 on a level and stable surface then slide the switch to the 'ON' position. DO NOT TOUCH OR MOVE THE Q500 UNTIL THE INITIALIZATION PROCESS IS COMPLETE. The main LED status indicator will glow solid green (Smart Mode) or solid purple (Angle/Pilot Mode) when initialization is complete.

7 Starting/Stopping the Motors

Step back approximately 26 feet (8 meters) behind the Q500. Press and hold the red START/STOP button for approximately three (3) seconds to start the motors. Press and hold the button for approximately two (2) seconds to stop the motors.



8 Flight Controls:

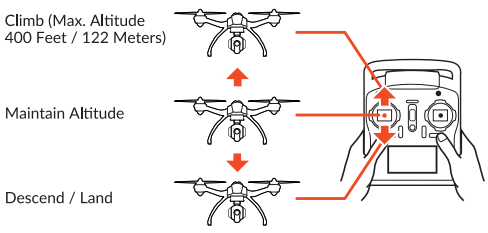
NOTE: The information in this and the following steps refers to the default 'Mode 2' control configuration of the ST10.

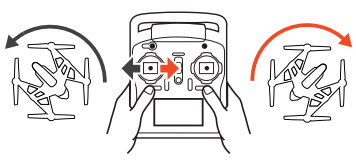
When the left-hand stick is in the middle position the Q500 will maintain the current altitude. The farther away from the middle position you move the stick the faster the Q500 will climb or descend. Moving the stick to the left/right will turn (yaw) the nose of the Q500 left/right about the vertical axis.

TAKEOFF

WARNING: Do not attempt to operate the Q500 in winds that exceed 8–12 miles per hour (13–19 kilometers per hour).

To takeoff, slowly raise the left-hand stick to slightly above the center position. The Q500 will takeoff and climb slowly (or raise the stick further until it does). Allow the stick to return to the center position when the Q500 reaches the desired altitude.





LANDING

There are two ways to land the Q500:

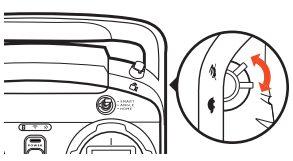
1) Position the Q500 above the area where you would like to land. Slowly lower the left-hand stick to below the center position. The Q500 will descend slowly and land. After the Q500 lands, press and hold the red START/STOP button for approximately one (1) second to stop the motors.

2) Activate Home Mode and the Q500 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 if at any time the Aircraft Battery Voltage shown on the screen is below 10.7V, land the Q500 immediately.

9 Proportional Control Rate Slider

Sets the overall climb/descend and directional control rates. Use the turtle position for the lowest control rates (best for first-time pilots and when flying between 5000 feet and 8000 feet Above Mean Sea Level). Use the rabbit position for the highest control rates (best for experienced pilots and only when flying below 5000 feet AMSL



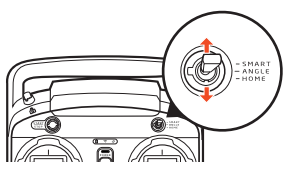
10 Selecting a Flight Mode

The Q500 is programmed with three (3) flight modes that can be selected via the Flight Mode Selection Switch located just above the right-hand control stick.

1) When the flight mode switch is in the top position the Q500 will be in Smart Mode.

2) When the flight mode switch is in the middle position the Q500 will be in Angle (also known as Pilot) Mode.

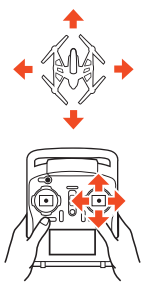
3) When the flight mode switch is in the lowest position the Q500 will be in Home Mode.



11 Flight Modes

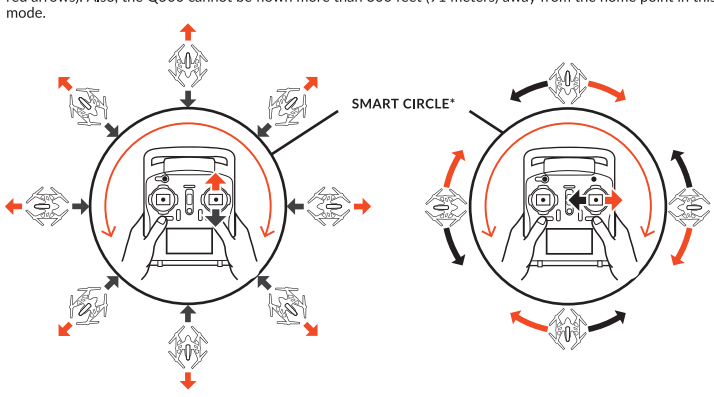
ANGLE (PILOT) MODE

When the main LED status indicator glows solid purple the Q500 is in Angle (Pilot) Mode which is intended for intermediate/experienced pilots. The Q500 will move in the direction the right-hand control stick is pushed relative to the front/nose of the aircraft (and the 'angle' of movement is determined by how far you move the stick away from the center position).



SMART MODE

When the main LED status indicator glows solid green the Q500 is in Smart Mode which is intended for beginner/first-time pilots. The Q500 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. And you should never change your position after takeoff but you should rotate in place so you are ALWAYS facing the Q500 (as indicated by the red arrows). Also, the Q500 cannot be flown more than 300 feet (91 meters) away from the home point in this mode.

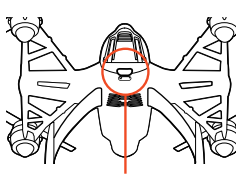


*Ø 52 feet / 16 meters

HOME MODE

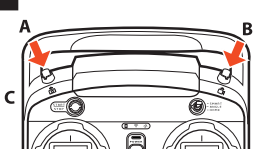
When the main LED status indicator flashes red the Q500 is in Home Mode. In this mode the Q500 will automatically fly itself back to the home point and will land within a 10 foot (3 meter) diameter circle around it.

WARNING: If the Q500 loses GPS signal/lock while flying the LEDs under the motors will flash three (3) times per second then will go off for one (1) second, the GPS status on the ST10 screen will be listed as 'Disabled' and the Q500 will switch to Angle (Pilot) Mode automatically. Smart Mode and Home Mode will not work and you must be able to properly control the Q500 in Angle (Pilot) Mode otherwise it may crash or even 'fly away'.

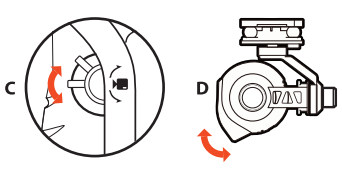


MAIN LED STATUS INDICATOR

12 Camera Controls



Take Still Photo = Button A
Start/Stop Recording Video = Button B



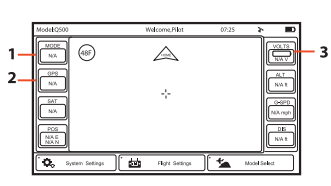
Use the slider (C) on the left side of the ST10 to set the pitch/tilt position (D) of the CGO2-GB.

CAUTION: You MUST stop recording video in order to take still photos. It will take approximately 5 seconds to capture a still photo and before you can take another.

CAUTION: ALWAYS stop recording video before turning off the Q500/CGO2-GB to avoid data loss. If you accidentally turn off the Q500/CGO2-GB before you stop recording, re-insert microSDcard (if removed) and turn the system on again. Wait approximately 20 seconds until the camera LED starts to glow solid green indicating the last video file was recovered.

IMPORTANT NOTE: You can choose to record video at 48, 50 or 60 frames per second by tapping the corresponding button near the upper left-hand corner on the screen of the ST10. And the delay in the live video stream will be lowest at 48 frames per second.

13 ST10 Display



1) Flight Mode of Aircraft **2)** GPS Status for Aircraft **3)** Aircraft Battery Voltage

Double tap the center of the screen to increase the size of the video viewing area.

WARNING: NEVER attempt to fly the Q500 via First-Person View (FPV). Attempting to fly via FPV can result in a crash that will cause damage to the product, property and/or cause serious injury.

IMPORTANT NOTE:

After flying, turn off the Q500 BEFORE turning off the ST10. Then remove the battery from the Q500 and allow it to cool to ambient/room temperature before recharging.