CGO2GB

QUICK START GUIDE

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SYSTEM REQUIREMENTS (Windows)

Windows XP (Service Pack 2 or later) or Vista
3.2GHz Pentium 4 or faster
Minimum 4GB of system RAM

SYSTEM REQUIREMENTS (Mac)

Mac OS® X 10.4.11 or later
2.0GHz Intel Core Duo or faster
Minimum 4GB of systemt RAM

TECHNICAL SPECIFICATIONS

Dimensions LxWxH:	74x100x128mm (with lens)
Weight:	167g (without transfer board)
Working Voltage:	12V
Wireless Frequency Range:	5745MHz---5825MHZ
Lens Sensor:	16M
Field of view:	155°
Pitch Axis Control:	0~80°
Effective Pixels:	16 million pixels
White Balance:	Automatic white balance
Focusing System:	Fixed Focus
Storage Temperature:	-20℃- 60℃
Working Temperature:	0℃-50℃

INTRODUCTION

CGO2-GB is a high-resolution gimbal camera specifically developed by Yuneec for small UAVs. The compact and light-weight CGO2-GB is suitable for high quality first person view (FPV) for an array of flying platforms. CGO2-GB includes long range and low-latency digital Wi-Fi video link, providing users with a high definition, portable real-time video solution.

CGO2-GB can be remotely controlled by Yuneec FREE iOS and Android smart phone applications without the use of extra components.
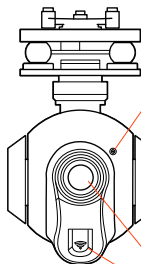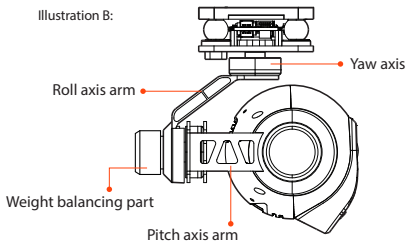
OVERVIEW

Illustration A:

LED indicator :
-Red LED solid: Power On

-Green LED solid: Get Ready

-Green and Blue LEDs flash alternately:
 Video/Photo taking

-Yellow LED flashes: T card error

-Red LED flashes: Wifi error

Camera

5.8 Ghz Wi-Fi Antenna

Illustration B:

Yaw axis

Roll axis arm

Weight balancing part

Pitch axis arm

Illustration C:

T card slot
5pin MICRO USB

Illustration D:

CGO2-GB Control cable slot
(3 pin cable from QX1)

PWM slot

Camera power cable slot
(Cable from CGO2-GB)

UART

Illustration E:

gyro cable slot

SR12S cable slot

CGO2-GB power cable slot
(2 pin cable from QX1)

potentiometer cable slot

Yaw motor
control cable slot

Roll motor
control cable slot

Pitch motor
control cable slot
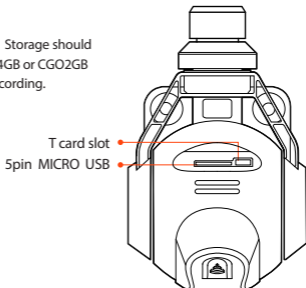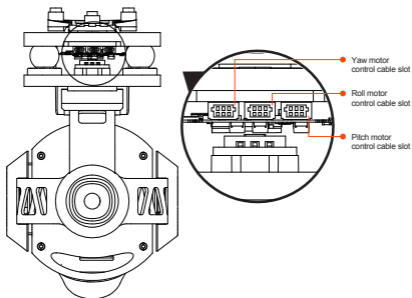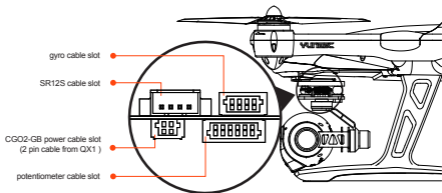
What is included in the CGO2-GB

Illustration F :　The entire CGO2-GB includes a camera, a gimbal and internal 5.8Ghz wifi antenna.

Gimbal

Camera

Internal 5.8Ghz
Wifi Antenna
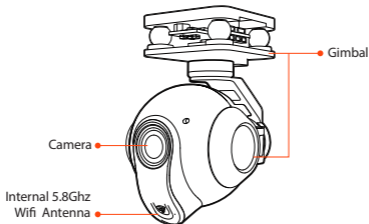
Mounting on QX1

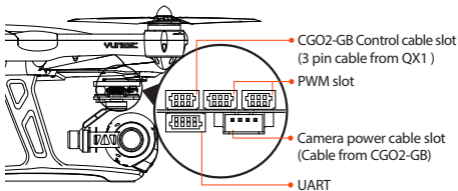Mounting CGO2-GB to QX1
Step.1 Mounting CGO2-GB transfer board to the QX1 with 3 socket head cap screws (ST2.5*10).

Illustration G :
CGO2-GB
transfer board
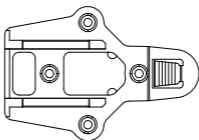
Illustration H : Transfer board mounted to QX1
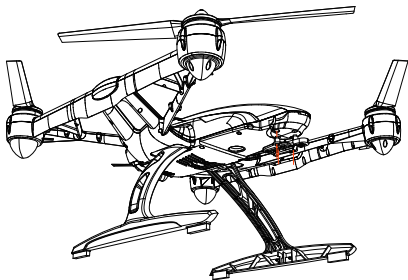
Step.2 Slide the CGO2-GB onto the transfer board as shown until it locks.
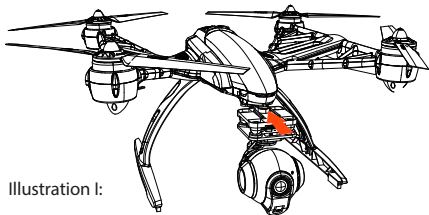
Illustration I:

Powering the CGO2-GB

After mounting CGO2-GB, plug in the *"CGO2-GB power cable"* to the CGO2-GB power cable slot (Illustration E) and the *"CGO2-GB control cable"* to the CGO2-GB control cable slot (Illustration D) .

Note: The CGO2-GB does not contain any battery pack. It is directly powered from the QX1.

Illustration J :

CGO2-GB power cable
(2 pin Cable from QX1)

Control cable
(3 pin Cable from QX1)

6 pin
Cable slot
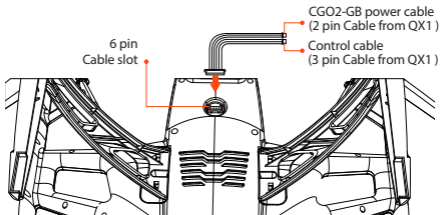
Basic Operation:

Illustration L: Powering on the QX1

Turn on the power button to "ON"
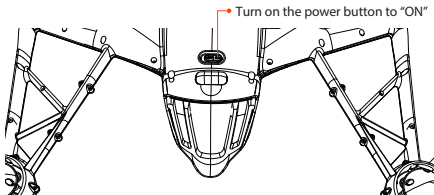
To Power ON:

Turn on the power button on QX1 to "ON", Red LED indicates CGO2GB has been successfully powed on, 30-40s later, when the Red LED turns into Green LED, it indicates that wifi for CGO2GB is ready.

To Power OFF:
Turn off the power button on QX1 to "OFF".

Access to WiFi:
When the Green LED is on, customers can use 5.8G device to search for CGO2GB's SSID. The initial password is: 1234567890.

Video/Photo:
Press the VIDEO/PHOTO button on mobile App or remote controller.

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CGO2-GB APP Interfaces

Interface A:

SETTINGS ← RESET/F POWER SD CARD STORAGE ABOUT → VIEW PHOTO/VIDEO

TAKE PHOTO, START/STOP RECORDING

START/STOP RECORDING
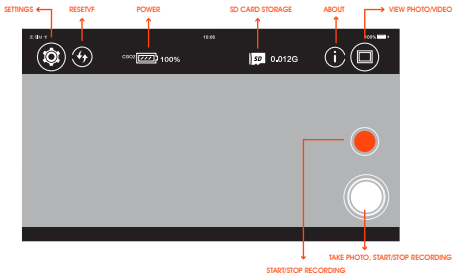
TROUBLESHOOTING GUIDE

WHAT	WHY	SOLUTION
The CGO2-GB keeps vibrating after initializing.	CGO2-GB may not be mounted securely to the transfer board.	Make sure the CGO2-GB is slided onto the transfer board until it locks . Otherwise, the center of gravity will be incorrect.

The CGO2-GB does not function or respond.	CGO2-GB may have been moved during initialization.	Cycle the QX1 power on/off by switching on/off.
CGO2-GB can not be powered on.	CGO2-GB control harness may not be connected into the correct port.	If using GB2 GB with QX1, be sure to connect the power cable from QX1 to the slot on CGO2-GB.
CGO2-GB failed in turning back to the front	CGO2-GB may not have positive connection via yaw axle cable.	Check CGO2-GB yaw axle control cable, if necessary try reconnecting and cycling the power on/off.
CGO2-GB does not respond to control inputs and LEDs flashes in RED.	The gyro board harness may have disconnected from the GB2 GB control board.	Check the connection between the gyro board and the GB2 GB control board.

TRANSFERRING FILES

Follow the steps to transfer video and photo files to a computer:

Using an USB cable:

1. Turn off the power switch on QX1.
2. Connect CGO2-GB to the computer using the included USB cable.
3. Double click 'My Computer', locate and double click 'Removable Disk'.
4. Double click 'DCIM' folder icon to view all Photo and Video files.
5. Copy your precious files to the computer.

Using Micro card:

1. Turn off the power switch on QX1.
2. Take the T card out of CGO2-GB and insert it in the T card slot of your computer.
3. Double click 'My Computer', locate and double click 'Removable Disk'.
4. Double click 'DCIM' folder icon to view all Photo and Video files.
5. Copy your precious files to the computer.

CGO2GB SMARTPHONE FPV APP

1. Download the Free CGO2-GB App to your smartphone or tablet at the Apple App Store or Google Play.

2. Power on CGO2-GB (turn on the "ON/OFF" button on QX1).
3. Open your device's Wi-Fi settings and connect to the CGO2-GB_******* network.
4. Enter the password 'key' located on the CGO2-GB.
5. Open the CGO2-GB App on your smartphone or tablet.
Now, you will be able to control the CGO2-GB with your smartphone or tablet, plus adjust settings.

SAFETY WARNINGS

This symbol means that according to the local laws and regulations your product should be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Some collection points accept products for free. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Federal Communications Commission (FCC) Interference Statement
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) this device must accept any interference received, including interference that may cause undesired operation.

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 an experienced radio/TV technician for help.

Note: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
RF exposure warning· The equipment complies with FCC RF RF exposure limits set forth for an uncontrolled environment.The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

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
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 autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Keep CGO2-GB out of the reach of any liquid.
Age Recommendation: Not for children under 14 years.
This not a toy.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter 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 and transmitter operating conditions for satisfying RF exposure compliance.

WARRANTY

Limited Warranty:

Yuneec warrants that for a period of one (1) year from original date of purchase, the product will be free from defects in materials and workmanship under normal use. In the event of a defect, please contact Yuneec Customer Support (www.Yuneec.com) for assistance. Yuneec's sole obligation under this warranty will be, at its option, to repair or replace the product. This warranty does not apply to products damaged by misuse, accident, water damage, or normal wear and tear. Yuneec disclaims all other expressed or implied warranties or conditions. To the extent not prohibited by law, in no event will Yuneec be liable for any loss of data, revenue or profit, or for any special, indirect, consequential, incidental or punitive damages, however caused, arising

out of or related to the use of or inability to use the product, even if Yuneec has been advised of the possibility of such damages. In no event will Yuneec's liability exceed the amount paid by you for the product. Some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary by jurisdiction.

ABOUT THE QUICK START MANUAL

Yuneec reserves the right to update manuals, quick start guides and warranty information at any time. For the latest manual and quick start information, as well as warranty information, please visit **yuneec.com**

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