

CGO2 User Manual

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SYSTEM REQUIREMENTS (Windows)

Windows XP(Service Pack 2 or later) or vista
3.2GHz Pentium 4 or faster
Minimum 1GB of system RAM

SYSTEM REQUIREMENTS (Mac)

Mac OS X 10.4.11 or later
2.0GHz Intel Core Duo or faster
Minimum 1GB of system RAM

TECHNICAL SPECIFICATIONS

Dimensions L×W×H(with lens and without mushroom antenna):65.1×45.5×33.5mm

Weight: 80.5g(with mushroom antenna)

Battery: 1050mAh 1-Cell 3.7V

Li-Po

Working Voltage: 3.7-4.2V

Operating Time Per Charge: 60min-90min(based on Wi-Fi Environment)

MicroSD HCSD Class 4: 4GB-128GB

Optical Zoom: fixed focus

Photo Resolution/Format:16MP/JPEG

Resolution/FPS Video Recording:1080P/60p

Downlink Resolution/FPS/Latency:720P/30FPS/200ms

Video Format: MP4(H.264)

Audio Format: AAC

Internal-Microphone: included

Wi-Fi Frequency: 5.8GHz

Wi-Fi Power: 16dBm

Antenna: Ext.-Mushroom Type

Communication Distance: up to 1700 feet with ST24

Communication Channel: 149,153,157,161,165

Frequency:5745-5826MhZ

Lens Sensor: 16M

Field of View:155°

White Balance: Automatic white balance

Focusing System: Fixed Focus

Storage Temperature: -20° C-60° C

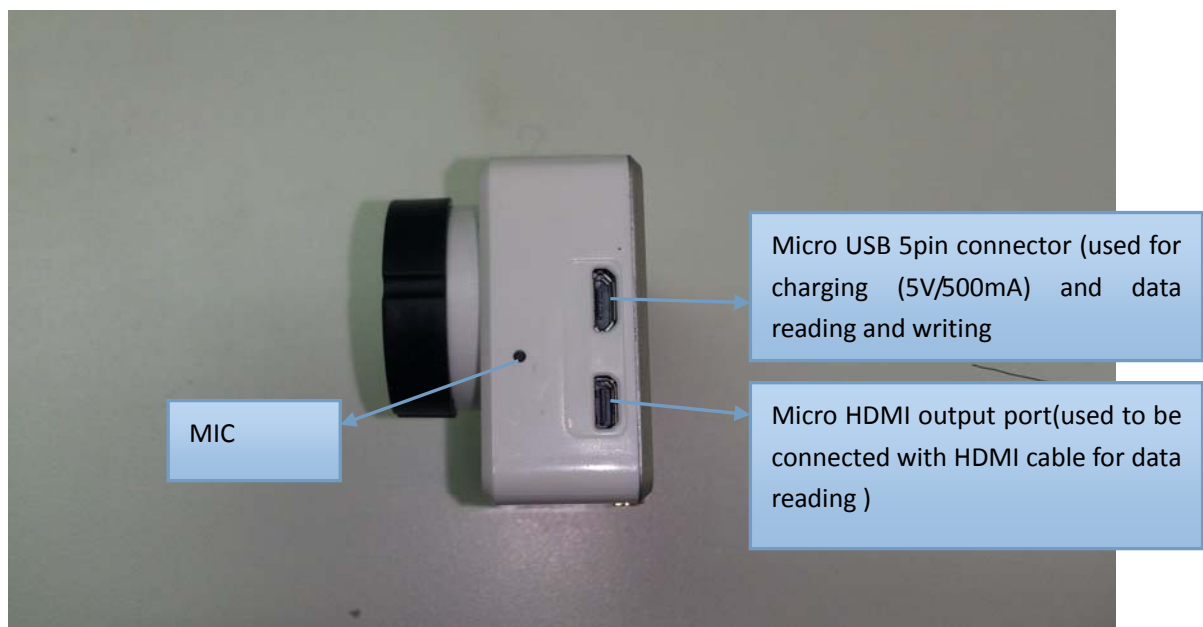
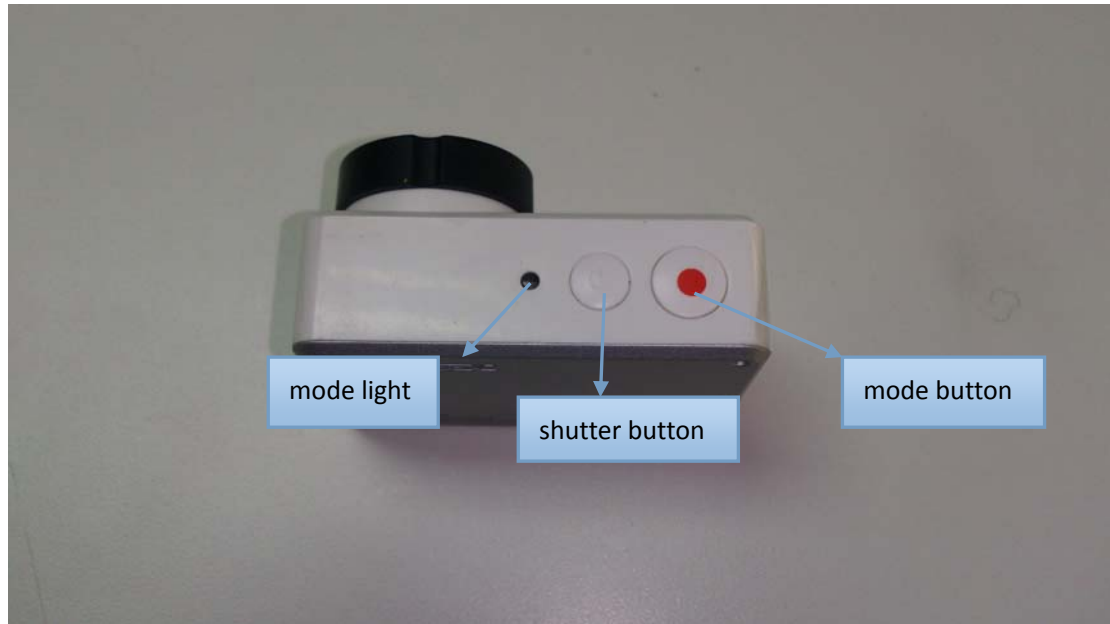
Working Temperature: 0° C-40° C

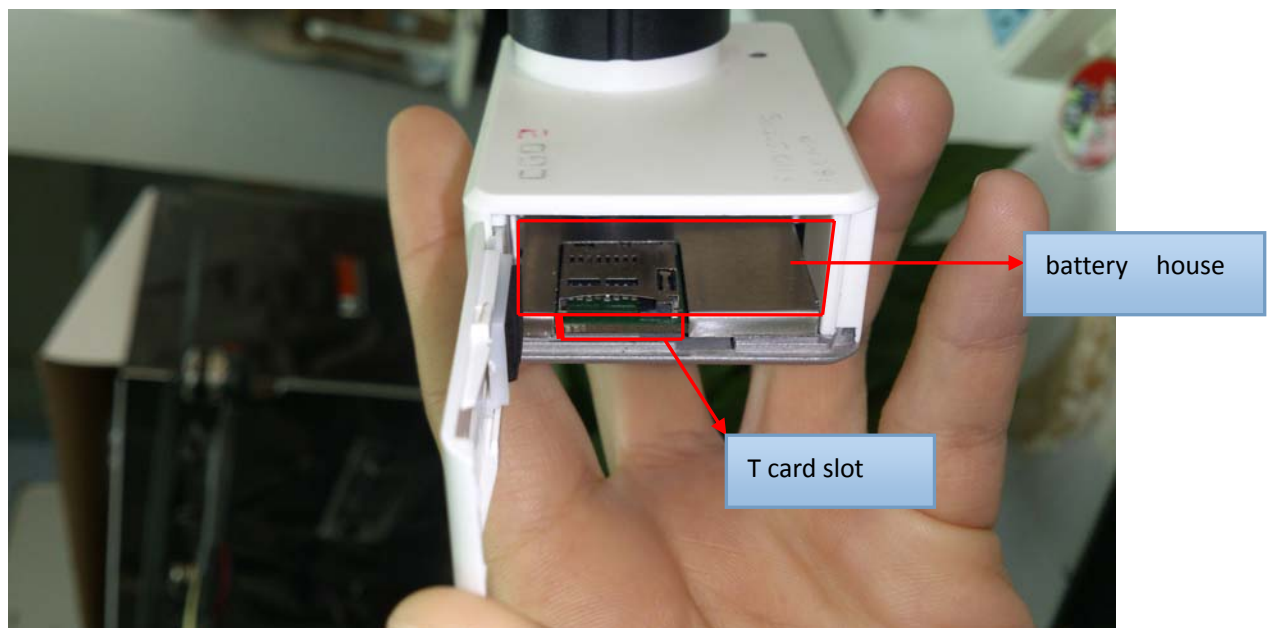
INTRODUCTION:

CGO2 is a high-resolution camera (1080p/30FPS)specifically developed by Yuneec for small UAVs. The compact and light-weight CGO2 is suitable for high quality first person view (FPV) for an array of flying platforms. CGO2 includes long range and low-latency digital Wi-Fi video link ([LINK 还是 downlink?](#)) , providing users with a high definition, portable real-time video solution. CGO2 can be remotely controlled by Yuneec's Personal Ground Stations-ST24/ST15,CGO2's video downlink

performance reaches nearly 1700 feet.

Overview:







POWERING ON AND OFF

To power ON: Short press the shutter button and the three indicator lights flash, then the power indicator light flashes. After Wi-Fi is on, Wi-Fi indicator light flashes.

To power OFF: Continue pressing the shutter button until the three indicator lights turn off.

To start recording: After powering on, continue pressing Video/Photo button until it flashes. (PS: recording can also perform with Wi-Fi off)

To take a Photo: after powering on or during video recording, press video/photo button and the indicator light glows for 2 second, then photo is taken. (PS: recording can also perform with Wi-Fi off)

Wi-Fi Connect Building:

After powering on, if the Wi-Fi indicator light glows solid, SSID of CGO2-XXXXXX will be searched.
Connecting password: 1234567890

Picture overview: After connecting Wi-Fi, open VLC player media-open the internet serial input
rtsp address: rtsp://192.168.42.1/live, click "play" and then the player shows real time videos.

PS: Wi-Fi overview needs to be built for the certification tester.

Channel modification:

- 1) Mac of the two prototypes are set respectively as 00E04C1BD511 and 00E04C1BD522 and their responding SSID default are CGO2_1BD511 and CGO2_1BD522.
- 2) Two T cards with over 4G are needed. A common card is forbidden so that it wouldn't lead to SSID chaos. Before inserting T card, both should be format, then default SSID will be used.
- 3) There are altogether five values to modify the channels, which are 149,153,157,161,165. The rule is a difference value of 4.
- 4) The route of channel modification is T card MISC/wireless.conf file. The second line from the end WUCHAOFAN=149. Default is 149,

IMPORTANT NOTE:

Please make sure the camera is powered off when you remove the MicroSD card. Removing the MicroSD card prior to powering the camera off may lead to file loss or corruption. Also make sure to "stop recording" prior to powering off your CGO2 to ensure your video is properly stored in the MicroSD card. Additionally, before powering off your CGO2, we recommend pressing and holding the SHUTTER Button for 2 seconds until the Video/Photo and Wi-Fi indicator lights flash. This step will help preserve your previous photo/video files.

SAFETY WARNINGS:

1. Make sure the camera is powered off while charging.
2. Please avoid directly touching the aluminum alloy back cover. When CGO2 is working with Wi-Fi on, the camera body may become hot to touch because of the high-performance nature of the product. CGO2's aluminum alloy back cover is specially designed to help dissipate heat under normal operating conditions.

CAUTION: Risk of explosion if CGO2 battery is replaced by an incorrect battery. Use only Yuneec's CGO2 battery that is specially developed for the CGO2. Dispose of batteries according to your local laws.

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.

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 liabilities exceed the amount paid by you for the product. Some jurisdictions do not allow limitations on how long an implied warranty lasts, or exclusions may not apply to you. This warranty gives you special 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.

FCC Statement:

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

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 received, including interference that may cause undesired operation.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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.

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 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.