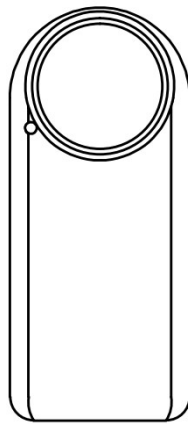




Hawkeye 4K Thumb Cam 3 Internal EIS



- Image stabilization inside
 - Built in battery
 - Wi-Fi

V1.0

Lastest Manual:

<https://drive.google.com/file/d/11ARVXDQpySDQ9inNT88dJuhi32HKWNXx/view?usp=sharing>

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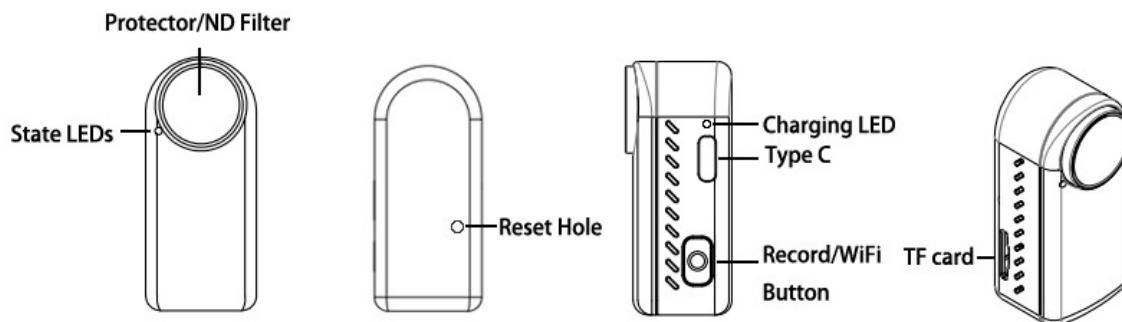
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Safety Guidelines:

Please read the instruction manual carefully before using the camera for the first time.

Please check the latest version manual on our website.

- 1.It's a high-precision product, do not drop or crash it.
- 2.Do not expose the camera to strong magnetic objects, such as magnets or electrical motors. Avoid exposing the product to strong radio waves. Strong magnetic fields may cause the products breakdown or image/audio damage.
- 3.Never leave the products exposed to high temperatures and direct sunlight.
- 4.In case of overheating, smoke, or unpleasant smell, unplug your device immediately to prevent fire hazard.
- 5.Keep the product out of children's reach. Power cable may cause children accidental suffocation or electric shock.
- 6.Keep the device in cool, dry and dust-free places.
- 7.Please do not throw the product or it's battery to the garbage, find a specific recycling place for it.

Features:

Note: ND filters are optional. ND16, ND32 are available.

Button:

| Name | Long press For 6 seconds | Click | Double Click |
|------------------------------|------------------------------------|---|------------------|
| Power/Record/ WiFi Button | Power ON | Start/Stop Recording Power ON(WHEN Quick recording mode ON) | Turn ON/OFF WiFi |

LED indicator:

| | |
|--------------------------------------|--------------------------------------|
| Charging LED | ON: charging; OFF: finish |
| 2.5K 4: 3 30FPS | Red + Green, Flashing when recording |
| 4K 30FPS 2.5K ULTRA 2.5K 50FPS | Red Flashing when recording |
| 2.5K 30FPS 1080P 50/30FPS | Blue Flashing when recording |

Wifi LED indicator:

ALL LED alternately flashing

APP control the camera:

Sear **"OKJ"** on the ios.

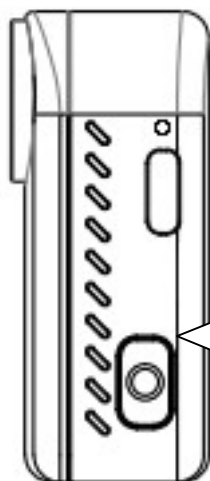


OKJ
工具

Google Play:

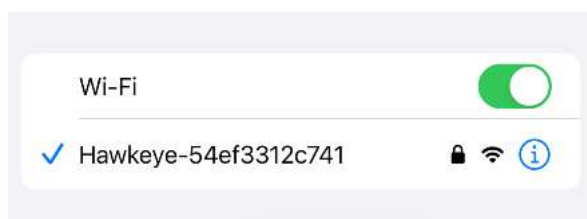


Double click to turn on the camera Wi-Fi (When the camera is ON) ,LED are flashing alternative.



Double Click

Search “Hawkeye-xxxx” in Wi-Fi with the smart phone and connect it.
Default password: 12345678



After connecting the camera, run OKJ APP and then connect the camera.



Connect camera

Performance and Specifications:

| | | |
|--|-------------------|---|
| | Resolutions | 4K 30FPS/ 2.5K 30FPS 4:3 2.5K 30FPS Ultra 2.5K 50/30FPS/ 1080P 50/30FPS |
| | Micro SD card | U1 SanDisk recommend |
| | SD card supported | 8-256G(FAT32) |
| | Size | 52.5×23×21.7 MM |
| | Weight | 34g |
| | File format | *.MP4/H.265/H.264 |
| | Lens | F/2.0 , 7 glasses |
| | Angle | Diagonal 170 degrees |
| | Voltage | USB C 5V |
| | Current | 500mA |
| | Battery | 620maH |
| | | Wi-Fi OFF, 1080P 30FPS for about 1.3 hours 25°C indoor |

Format SD Card:

You need to format SD card to FAT32/ for the first time

Installation:

Soft mount is needed between the camera and the drone frame. Use TPU Mount

or 3M double-sided tape.

Record videos:

Please insert SD card, then press Power/OK button once to record. Please use U3 speed SD card. Format the SD card to **FAT32** at the first time.

When **Quick record mode** or **Auto record mode** is ON, the camera will auto record video after power on, no need to press record button.

File Transfer:

When the camera is **turned ON**, connect it to the computer with a USB cable and the camera will automatically enter Mass Storage Mode.

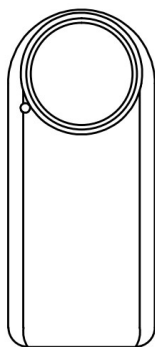
PC CAM:

When the camera is turned **OFF**, connect it to the computer with a USB cable and the camera will automatically enter PC CAM mode. Use “amcap” software to see the pc cam.



Portrait video:

When camera place in portrait, need to rotate video 90 degrees in editor or your phone.



Update Firmware:

1. Delete all the files and folders in the SD card.
2. Download the bin firmware to SD card.
3. Insert the SD card into the camera.
4. Power on the camera and it will update firmware automatically.
5. When updating, the LED will flash.
6. When the update process is finished, the LED will stop flashing.
7. The camera will reboot again.
8. Please check on www.CNfpv.com for new firmware updates.

Scan to watch how to update firmware:

<https://youtu.be/36fSIRs1pzE?si=vT9vUGLPa9ztV3Sk>



Video Settings:

Resolution: 4K 30fps、2.5K 50/30fps, 2.5K 30(4:3)fps, 2.5K 30FPS ULTRA, 1080p 50fps, 1080p 30fps.

Loop recording: 1、3、5、10minutes. When the SD card is full, video will be auto loop recording. When the SD card is full, video will be auto loop recording. The oldest file will be deleted first.

WDR: Off、On. WDR effect will be On/Off. **Note: When this function is turned on, the image will not become dark even toward the sun. The image would not look so clear if this function is ON sometimes. As a FPV cam, this function should be turned ON.**

Exposure: +2.0、+5/3、+4/3、+1.0、+2/3、+1/3、0、-1/3、-2/3、-1.0、-4/3、-5/3、-2.0. **Note:** Higher value for brighter image. If you want brighter image, set this value higher. If the image is over exposure, set the value smaller.

Record Audio: Off、On.

Metering: Average、Center-weighted、Spot, Upper meter, Lower meter.

Sharpness: Strong、Normal、Soft.

Contrast: High、Medium、Low.

Auto Recording: Off、On. **Note:** The camera will turn on and record automatically without pressing button. When you stop recording, you need to press the record button. When the power is suddenly cut off or the stop recording button is not pressed, the file will be damaged. You need to use the keyboard to enter the playback mode. When you play back the damaged file, the file will be repaired automatically.

QUICK recording mode: OFF, ON: When it's ON. Short press to turn on the camera (long press to turn on by default), and then it will automatically start recording; press again to stop recording, and then within 5 seconds, if there is no operation, the camera will automatically shut down.

Electronic shutter: Fix the shutter speed. Auto, 1/60, 1/120, 1/240, 1/480, 1/960, 1/1200, 1/1440, 1/1920, 1/3840, 1/7680.

Gyro log: Off, on. Save the gyro log and stable the image in PC.

Gyro calibration: Please place the camera horizontally and keep it stable still, press OK button to start.

System Settings:

Date time setting. Set daytime.

Auto power off: Off、1、2、3、5、10minutes.The camera will turn off when there's no operation.

Beep sound: Off、On。 Set the beep sound on/off.

ISO:Auto、100、200、400、800、1600、3200. The term was carried over from film, when the ISO rating was known as the “film speed” and “ASA.” Having a standard of sensitivity is important, as it allows you to shoot the same ISO on different cameras and trust that the exposure value will be equal. Lower ISO, darker image, less noise.

Color: Color, Black&white, Sepia, Flat color.

White balance: Auto、 6500K,6000K,5500K, 5000K,4150K,4000K, 3000K,2850K,2700K. White balance affects the image, warmer or cooler. Different Lens should use different white balance too. We recommend Hawkeye 4 for the stander lens.

White balance auto lock: Off, On. When start recording, the current white balance will be locked.

De-noise: OFF, ON

Image rotation: Off, On.Turn the image upside down.

USB: Mass storage, PC Cam.

Format: Format the SD card. **Note: format the SD card at the first time, or the camera can't recognize the SD card.**

Default settings. if you have any question, you can set to default settings.

Version. Version number. Check its the newest firmware on www.CNfpv.com.

Camera set up & tutorials:

<https://youtu.be/UvgmEo4Zv5E>



3D print files download from:

<https://www.thingiverse.com/hawkeyefpv2/designs>

NOTE:

Check on www.CNfpv.com for new firmware/Manual updates.

For more information please check our

Youtube/Facebook/Instagram/Ticktock channel:

HawkeyeFPV

FCC STATEMENT:

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.