

# TACTIC DRONEVIEW



The Tactic Droneview Camera is powered by an included 1S 3.7V 350mAh lithium-polymer battery (LiPo).

**IMPORTANT:** It will be necessary to fully charge the battery with the included USB charge cable before use! Follow all safety precautions below before proceeding. Failure to do so may cause the camera to lose power prematurely, resulting in a loss of data.

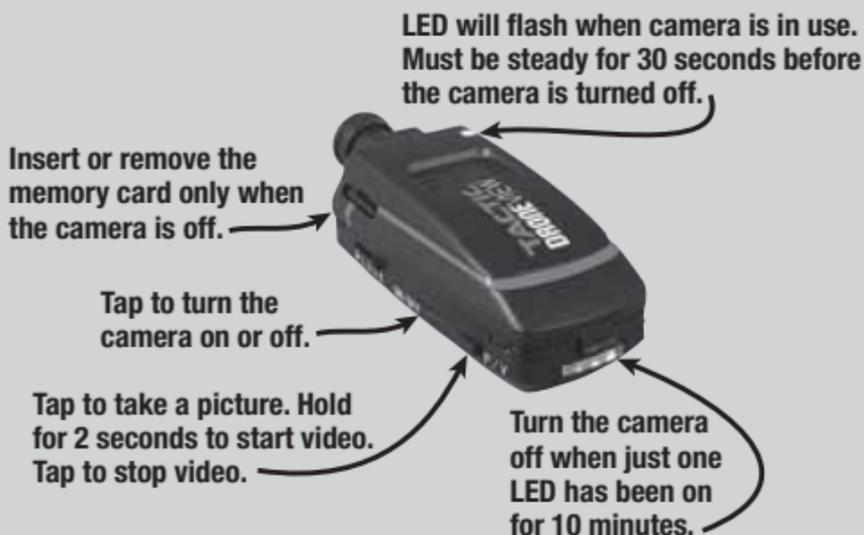
- NEVER LEAVE BATTERY UNATTENDED WHILE CHARGING.
- Never allow battery temperature to exceed 140°F (60°C).
- Never place the battery on combustible materials while charging.
- Never attempt to disassemble or modify the battery.
- Never attempt to charge or to use the battery if it's swollen, punctured, or deformed in any way.
- Never attempt to charge the battery with an incompatible battery charger.
- Follow appropriate disposal instructions when the battery has reached the end of its useful life.

## **CHARGE THE CAMERA BATTERY**

1. Connect the included USB charge cable to a computer's USB Port or to an AC to USB adapter.
2. Connect the LiPo battery to the jack on the opposite end of the charger.
3. The Battery Charge Meter LEDs will start flashing to indicate that the charge cycle has started.
4. When the battery is charged, the Battery Charge Meter LEDs will stop flashing and remain on.
- 5 The battery will recharge in about 50 minutes if the camera is turned off and will operate the camera for about the same time. The USB charge cable can be used while the camera is operating to extend the camera's run time.

## QUICK START

When the camera is turned on, it needs 30 seconds to setup before it can be used.



If the camera loses Wi-Fi connection and there is another network that the device can connect to, iOS users must go into the Wi-Fi settings and select the Droneview network. Android devices will usually reconnect automatically and the user should wait about a minute before going to the Wi-Fi settings page.

**If the battery dies while recording a video or the camera is turned off before the file is saved to the memory card, the current file may be lost or corrupted.**

Always wait 30 seconds before turning the camera off after recording a video or taking a picture.

Always use a class 10 card in the Droneview camera.

Always insert and remove the memory card when the camera is turned off.

## BATTERY MODULE

The battery module can be easily removed from the camera and replaced. The module can be charged without being attached to the camera. To remove the battery module:



Slide both lock tabs towards the front of the camera.



Carefully pull up on the tab at the back of the camera.



Slowly raise the back of the camera until the tabs are clear of the battery module.



Push the camera forward and up from the module to release the front catches.

## **SPECIFICATIONS**

Resolution: 720p

Run time: Approx. 45 minutes with fully charged battery.

Weight: 1oz (27.5g)

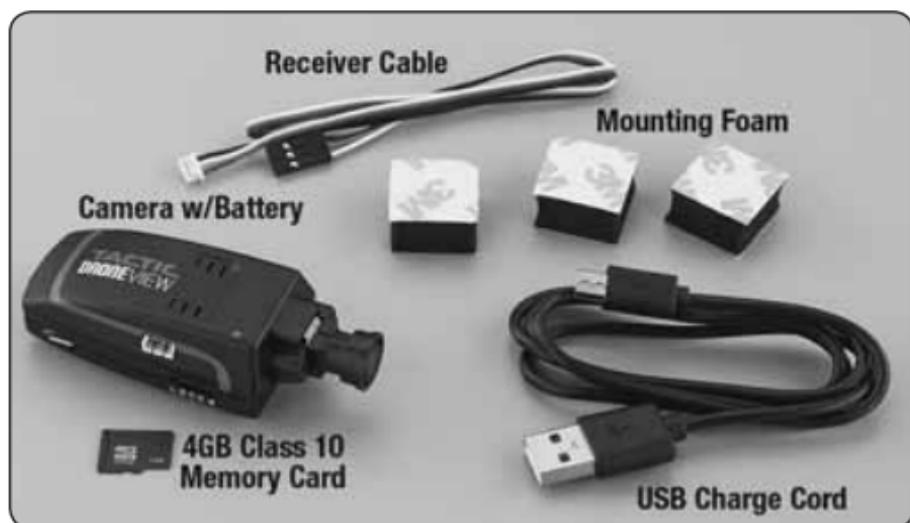
Width: 1.34" (34mm)

Length: 3.1" (80mm)

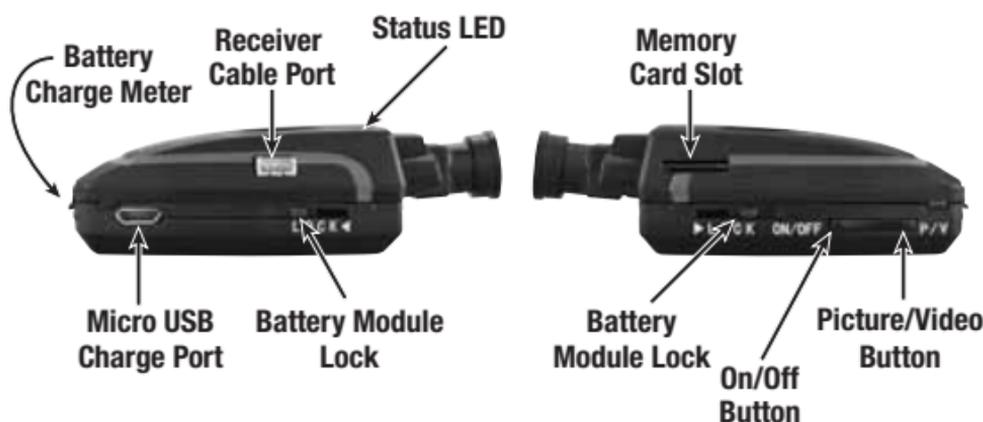
Height: 0.9" (24mm)

Sensor size: 1 megapixel

## KIT CONTENTS



## CAMERA CONTROLS



**Power Switch:** Tapping the ON/OFF button turns the camera on and off. When the camera turns on, the Status LED will be steady (Standby Mode) and the Battery Charge Meter will be lit. The camera will need 30 seconds to complete initialization of the card and the Wi-Fi connection before it can be used.

Tap the ON/OFF button to turn off the camera. Before the camera is turned off, make sure that the camera has

been in standby mode for at least 30 seconds so it can save any new files that were created.

**Picture Mode:** A photo will be taken when the P/V button is tapped. The Status LED will flash rapidly for 3 seconds while image is captured and stored. The camera cannot capture another picture until the Status LED stops flashing.

**Video Mode:** Holding the P/V button for 2 seconds will start a video recording. The Status LED will flash slowly while the video is being captured. To stop the video, tap the P/V button.

**NOTE:** The DroneView camera's maximum video length is 5 minutes. If video runs longer than 5 minutes the DroneView camera will automatically close the video file, save it to the memory card, and start a new file. There may be a short loss of video footage during this switch to a new file. The DroneView will continue to create new video files every 5 minutes of continuous recording until the memory card is full or the battery voltage is too low for the camera to operate. Corrupt or missing video files may result if the camera is stopped for these reasons. When the camera has been on for more than 40 minutes or the Battery Charge Meter has had only one LED on for at least 10 minutes, the video should be stopped so the file can be saved.

**Receiver Cable:** A receiver with an open channel that uses a three position switch, a knob or a stick can be used to make videos or take a photo. Connect the Receiver Cable to the Receiver Cable port on the camera and to the desired channel on the receiver. Insert a memory

card in the camera and turn it on. After the camera has completed the initialization procedure, use the Status LED to identify which camera mode is controlled by the different switch/knob positions.

| SERVO POSITION | CAMERA MODE        | STATUS LED                      |
|----------------|--------------------|---------------------------------|
| 100%           | Video              | Flashing Slowly                 |
| 0%             | Standby/Stop Video | Steady                          |
| -100%          | Picture            | Flashing Rapidly<br>(3 seconds) |

The camera control must return to the standby position to stop a video or after a picture is taken. After taking a picture, please wait 5 seconds before taking another photo or starting a video. The camera must be in standby mode at least 30 seconds to save any files recorded before it is turned off.

## USING THE DRONEVIEW APP



**DRONEVIEW**



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The DroneView app is software for your Wi-Fi-capable Apple or Android device that allows you to connect to the DroneView camera. Your device can then use the FPV (First Person View) function to monitor what the camera is viewing and take videos or pictures from the app. These files can then be viewed and stored directly to your device.

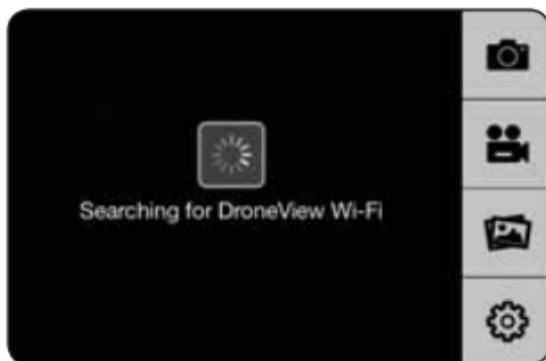
1. Install the “DroneView” app from Google Play (Android) or the App Store (Apple).

2. Insert the memory card into the camera and turn on the camera. Wait 30 seconds for the camera to complete the initialization process.

3. **iOS Only:** Go to the Wi-Fi setting options in your device and select the DroneView network. The actual name of the DroneView network will vary from the photo shown here. It may take several seconds for the DroneView network to appear in the available network list on your device. No password is needed to connect to the DroneView network.

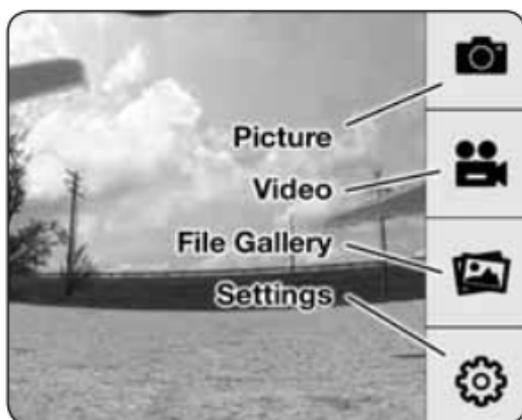


Open the DroneView app. It may take several seconds for the app to locate and connect to the DroneView Wi-Fi network. Android devices will usually



connect automatically to the DroneView Wi-Fi network when the DroneView app is opened. If your Android device is not connected within 30-60 seconds, open the Wi-Fi settings and manually connect to the Droneview network.

4. Once connected, you will see the image seen by the camera (referred to in this manual as the FPV feed). Press anywhere on the screen to pull up the main menu buttons.



The Wi-Fi range will typically be around 100 meters in an open area and will be reduced when the camera is operated indoors or where there is electronic interference.

**NOTE:** The FPV feed is for the purposes of displaying what the camera is recording to improve the quality and accuracy of videos and pictures with respect to the operator's intended field of view. We do not recommend attempting to operate a R/C vehicle using just the FPV feed. Delays in the FPV feed can cause the image shown in the app to not represent the exact current position of the vehicle. Any interruption of the FPV feed will not be present in the video files saved to the memory card.

## PICTURE

Press this button to take a still image. The screen will flash while the photo is captured. If the sound on the mobile device is turned on, the app will also make a sound like a mechanical camera shutter while the photo is taken.

## VIDEO

Press this button to start a video recording. A red stop button and timer will appear on the right side of the screen while the camera is recording. If the app loses the Wi-Fi connection to the camera, the video will continue and the on screen timer will update when the connection is restored. The other control buttons on the app cannot be accessed while the app is in video record mode. The red button on the app or the P/V button on the camera can be used to stop the video. If the receiver cable is being used, moving the camera control back to center will also stop the video.

## FILE GALLERY

Opening the file gallery displays the contents of the memory card in the camera.



Each thumbnail represents a picture or video. Video thumbnails have a video camera icon and the length of the videos at the bottom. Picture thumbnails do not have any other information and can be viewed by tapping on the image. In order to view videos, you must first export them. Press **Select** and tap anywhere on the thumbnail for each photo or video that you wish to export to your device. Press

**Export** to upload the selected files. A progress window will appear on each video to indicate the export status.



When **Export** is completed, the icon and the numbers at the bottom of the video thumbnail will turn white. After the video has been exported, tap on the thumbnail to view it. You can open your device's camera roll (gallery) to view or edit the exported files.

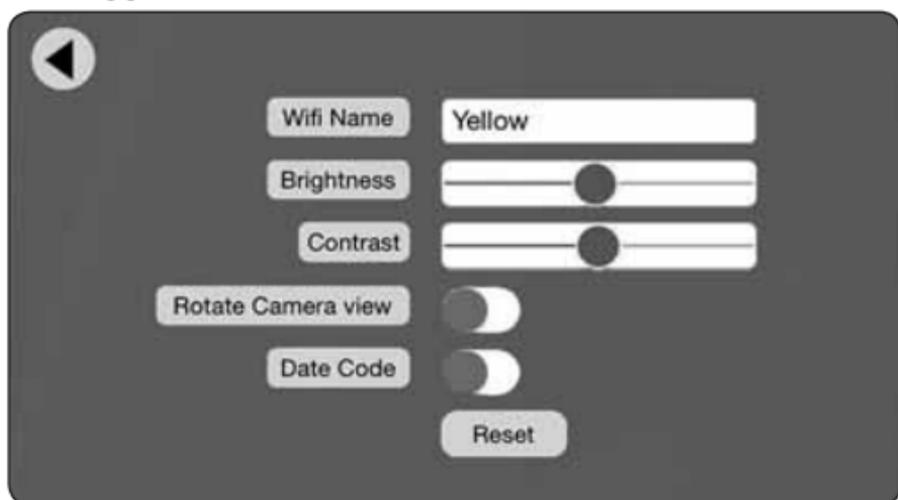
Any file in the File Gallery can be deleted from the camera's memory card. Press **Select** and tap the thumbnail for each file that is to be deleted. Press **Delete** to remove the files. Any files that have been exported will remain on your device until they have been deleted in the gallery or camera roll app.

**NOTE:** We do not recommend exporting videos that exceed 1 minute in length because of the amount of time it will take to export the files. For longer videos or a larger quantity of videos, we recommend removing the memory card from the camera and transferring the contents directly to a PC using a card reader. If you do plan to export longer videos, we suggest that the USB charge cable be used to

power the camera to ensure that the export process is not interrupted due to low battery voltage.

## SETTINGS

The settings menu allows you to change the Wi-Fi name, adjust the brightness and contrast, rotate camera view and toggle the date code off and on.



The **Wi-Fi Name** will change how the Droneview Camera is identified in the Wi-Fi network list. Do not use spaces in the new name.

The **Brightness** and **Contrast** will adjust the FPV feed display qualities. The Video and picture files will have the same display qualities as the FPV. You may wish to experiment with these settings depending on lighting conditions and personal preferences. Press reset to return the brightness and contrast settings to the default values.

The **Rotate Camera View** will flip the FPV feed, recorded videos and pictures 180°. The default setting is used when the camera is mounted with battery module above the camera. The Rotate Camera view should be turned on

when the DroneView camera is mounted with the battery module below the camera.

The **Date Code** will display the date in the upper right corner when the Date Code is turned ON. The camera must connect to the app to update the date each time it is turned on. If the camera is turned on and used before it has connected to your mobile device, the camera will display a default date of 1/1/1970. After the camera has received the current date from your mobile device, it will store that date until it is turned off.

Pressing the **Reset** button at the bottom of the menu will restore the default settings to the app and to the camera.

If any changes in the settings menu were made, you will be prompted to save them before returning to the main menu. If NO is selected, the changes will be discarded.

**iOS Only:** If the Wi-Fi name is changed, you will need to exit the DroneView app and select the newly named network in the Wi-Fi setting options for your device. Android devices will usually reconnect automatically.

**Multiple Wi-Fi Connections:** The DroneView camera can be connected to two devices simultaneously. Both devices will have the ability to share the FPV feed from the camera and control pictures/video.

**NOTE:** Exporting can only be done with one device at a time. Attempting to export files from a DroneView camera to two devices simultaneously may cause the transfer to freeze.

## **MOUNTING**

We have found that the camera works best when mounted firmly to a rigid part of your R/C vehicle. Mounting the camera to a part that moves, like a car body, will add distortion to the video. Some experimentation may be required to find the best material to use and the ideal location to mount the camera.

## **REPLACEMENT PARTS**

TACZ1001 Droneview Replacement Camera

TACZ1002 Droneview Battery Module

TACZ1003 Droneview Charge Cord

TACZ1004 Foam Mounting Pads

TACZ1005 Droneview Receiver Cable

TACZ1010 4G Memory Card

## **TROUBLESHOOTING**

**PROBLEM:** There are missing or corrupt files on the memory card.

**SOLUTION:** **1)** Refer to Camera Controls section for information regarding camera initialization and closing of files. **2)** The battery voltage may be getting too low for the camera to operate properly. Stop recording when the camera has been running for more than 40 minutes. **3)** Allow 5 seconds between taking pictures.

**PROBLEM:** The Wi-Fi connection is lost while recording.

**SOLUTION:** **1)** There may be interference in the area. Try operating in a different location. **2)** The camera may be too close to the mobile device. Try to keep it at least 12 inches from the camera. **3)** You are exceeding the Wi-Fi range of the DroneView camera. If possible, maintain a closer proximity to your device.

**PROBLEM:** The app does not re-establish connection after the connection has been lost.

**SOLUTION:** **1)** Open the Wi-Fi settings and manually connect to the Droneview network. **2)** Close the DroneView app and remove it from the background tasks. Restart the DroneView app.

**PROBLEM:** Exporting files was interrupted and the export function cannot be restarted.

**SOLUTION:** Close the DroneView app and remove it from the background tasks. Restart the DroneView app and run the export function again.

**PROBLEM:** You recorded videos/pictures but there are no files on the memory card.

**SOLUTION:** The memory card was incorrectly inserted into camera. Refer to Camera Controls section for instructions on the proper installation of the memory card.

**PROBLEM:** Horizontal scrolling lines appear in video or pictures.

**SOLUTION:** Avoid aiming the camera directly into the sun or reflected sunlight.

**PROBLEM:** The video player on your device cannot play the audio portion of the video.

**SOLUTION:** Download another media player app like the **VLC Media Player** from **videolan.org**

## **90-DAY LIMITED WARRANTY**

**PLEASE DO NOT RETURN YOUR PRODUCT TO THE STORE.** Tactic will repair or replace factory defects for 90 days from the date of purchase.

This warranty specifically does not cover crash damage, misuse or abuse.

If you believe you have an item which warrants a warranty claim and you are in the U.S., please refer to our Repair Services page at **hobbyservices.com** for the shipping address and instructions. If you have any questions regarding warranty coverage, please do not hesitate to contact our warranty center, Hobby Services, at **productsupport@hobbyservices.com**, or 217-398-0007 (M-F 9-5 Central Time) or fax at 217-398-7721.

If requested, please send the defective product to:

Hobby Services  
3002 N Apollo Dr., Suite #1  
Champaign, IL 61822

Please include a note about the problem, your contact information, and a copy of the receipt.

This warranty applies only if the product is operated in compliance with the instructions and warnings provided with each model. Tactic assumes no liability except for the exclusive remedy or repair of parts as specified above. Tactic shall not be liable for consequential or incidental damages.

Some states do not allow the exclusion of consequential or incidental damages so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

# **FCC REQUIREMENT CE COMPLIANCE INFORMATION FOR THE EUROPEAN UNION**

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.

**NOTE:** *THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.*

## **INSTRUCTIONS FOR DISPOSAL OF WASTE EQUIPMENT BY PRIVATE USERS IN THE EUROPEAN UNION:**

This symbol on the product or its packaging indicates this product must not be disposed of with other household waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated



collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or location where you purchased the product.

## **DECLARATION OF CONFORMITY:**

Product: Tactic DroneView FPV Wi-Fi Mini Camera

FCC ID: IYFZ1000

Item number: TACZ1000 Tactic Droneview Wi-Fi Camera

Equipment class: 1

Tactic Droneview Camera: The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European 2006/95/EC Low Voltage Directive:

EN 60950-1:2006 Safety

The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1995/5/EC:

EN300 328 V1.8.1.

Technical requirements for radio equipment

ETSI EN 301 489-17 V2.2.1, 301 489-1 V1.9.2 General EMC requirements for radio equipment

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The associated regulatory agencies of the following countries recognize the noted certifications to this product as authorized for sale and use.