

## UAV (Drones)

Chloe is a photographer specializing in outdoor and landscape photography. She loves taking pictures of wildlife, natural landmarks, and old structures in remote areas.

Chloe wants to broaden her photography skills and try capturing aerial video and photograph images using unmanned aerial vehicles. She recently completed a training certification to operate UAVs and is ready to purchase her first UAV. She is willing to invest up to \$1,000 in the unit.

While taking the training course, Chloe learned she definitely wants a unit that has GPS navigation to allow automatic “safe return to home”. High quality camera and video production with 360-degree camera rotation is a must.

She prefers the UAV to have a designated controller plus smartphone app capability. Since most of her production will be done in rural areas, battery flight time and multiple batteries are to be considered.

Although indoor photography is a small percentage of her business, she would like to try filming overhead video of weddings and celebrations held in large venues.

Which UAV is best suited for Chloe to purchase?

# Option #1

## DJI Phantom 3 Advanced Quadcopter Drone



### Features

- 1080p full HD video recording with fully stabilized 3-axis gimbal. Allows 360 degree camera rotation without moving Quadcopter.
- Lightbridge digital streaming allows live viewing of 720p video (full resolution video is simultaneously recorded on the internal micro SD card)
- Vision Positioning system allows stable flight indoors
- DJI Pilot app for iOS and Android allows live viewing and complete camera control. Control can be used without IOS/Android app.
- Return to Home, Auto Takeoff and Auto Landing using GPS navigation
- This bundle includes two (2) total flight batteries, one in the drone and one in a separate box, a rechargeable remote controller, and hard shell backpack for the case.
- Intelligent high power flight batteries. Flight time of 40 minutes.
- Weight – 2.5 pounds

**Price: \$ 899.99 bundle package**

## Option #2

### Yuneec Q500 4K Typhoon Quadcopter Drone RTF with CGO3 Camera and Steady Grip



#### Features

- Personal Ground Station controller with built-in touchscreen
- Integrated 3-axis precision gimbal camera
- 4K/30fps ultra high definition video, 1080p/120fps slow motion video
- User controlled video resolution, white balance and light exposure, 12 megapixel photos with No-Distortion Lens
- Handheld Steady Grip for capturing video footage
- Android and iOS Mobile Apps
- Aluminum Carry Case Included
- Battery flight time – estimated 45 minutes. Extra battery can be purchased for \$69.00
- Weight – 3.5 pounds
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**Price: \$ 848.99**

## Option #3

### 3D Robotics Aerial Photography Quadcopter

Camera/Gimbal Unit not included



Phone or Tablet Not Included

### Features

- Follow Me: Tracks Your Mobile Device
- Android and iOS Mobile Apps
- Return Home and "Safety Net" Modes
- The flight controller relies on GPS for navigational coordinates.
- One-Button Flying / "Pause" Button
- Operate your GoPro Through App
- Flight battery providing up to 25 minutes flying time.
- Weight - 2.25 pounds

**Price: \$ 830.99**

## Option #4

### Parrot Bebop Quadcopter Drone - Blue



### Features

Explore the world in 14 megapixel full HD 1080p and capture any vista with Bebop's 180° “fisheye” field of view

- Cruise at your own pace and GPS return home automatically
- Take clear photos and videos using advanced 3-axis image stabilization
- Fly farther and faster with quick charging Lithium ion batteries (2 batteries included)
- Control your experience with our Free Flight 3 app (iOS, Android, Windows 8.1).
- No dedicated controller. Smartphone/Tablet required to operate.
- Flight battery providing up to 45 minutes flying time.
- Carry case separately
- Weight - 2.97 pounds

**Price: \$ 748.99**

## **UAV (Drones)**

**Placing: 1 – 2 – 4 – 3**

**Cuts: 4 – 2 – 3**

Option #1 clearly rises to the top as it provides all the specifications that Chloe needs for her business. #1 also falls within her budget.

Option #2 falls within the budget and offers the video, controller and smart phone app that Chloe is looking for. We fault Option #2 for its lack of GPS and return to home function, which is critical for her use in rural areas.

Option #4 again falls within the budget and provides the GPS return home feature. This unit also comes with multiple batteries. Option #4 falls in to third place for its lack of separate controller and most importantly for its fish eye camera lens. The fish eye lens would not provide the professional photographic quality Chloe is needing for her business.

Option #3 falls to the bottom of the class for its lack of camera and Gimbal unit. This would be an additional cost that would not fit within the budget.