



**Q. What are the advantages of using a multikopter for aerial HD video and image capture?**

A. There is a precise three dimensional point that best presents an object being filmed or photographed from the air. Quite often this point is an oblique angle that can only be captured by a multikopter. The multikopter is less intrusive than full size aircraft and is not subject to many of the same airspace restrictions. The risk to persons and property is also far less than full size aircraft. The multikopter uses less energy to perform the task and so has a much smaller carbon footprint.

**Q. How far and how high can you fly?**

A. Our multikopters are operated by the pilot within "line of sight". Due to the size and status as a model aircraft the range is typically 900 feet in the horizontal and 400 feet in the vertical direction. Higher altitudes are possible in unpopulated rural areas if certain safety precautions can be taken to avoid full size aircraft.

**Q. What are your weather and wind limitations?**

A. We recommended always filming in less than 10 MPH winds and cannot fly in rain or snow. High or gusty winds make unstable video and jeopardize our equipment.

**Q. Do you offer turn-key video production?**

A. Yes. Call us with the details of your project for a quotation.

**Q. What cameras do you use?**

A. We are constantly testing cameras. However, not all video cameras and DSLR / lens combinations work well on aerial platforms. We have the best success with the following mirrorless cameras with fixed or optical image stabilization lenses:

- DJI X3
- DJI X5
- Sony a6000
- Sony CX760V and FS100
- Panasonic GH3, GH4
- GoPro HD HERO4 Black

**Q. Can you fly a Red Epic?**

A. Yes. We have access to remote control multirotors and single rotors that will fly your Red Epic or Scarlet. Call us about the details of your project.

**Q. Are you insured?**

A. Yes. We have 1.0 million dollars in insurance coverage. If needed we can provide a PDF copy of our Liability Insurance Certificate.

**Q. How many pictures / how much video do you take?**

A. An average session can produce aerial photographs (typically 20 - 30 images) or HD aerial video (approximately 10-15 minutes) - more if needed.

**Q. What resolution do you film in?**

A. Our integrated camera shoots video at up to 4Kp30 or 1080p60 and takes crisp, clear 12 megapixel stills.

**Q. How will you deliver the final images or videos?**

A. All images and videos become available either by direct transferred to your computer or as downloadable files via secure on-line drop-box service.

**Q. Can you work for clients located outside California or the United States?**

A. Yes. We are equipped to package up our equipment for interstate and international travel. Our home base is Redwood City, California, but we have experience working for clients overseas and will collaborate with your local contacts.

**Q. Do you have a minimum charge for services?**

A. Yes. For large jobs we have a base mobilization rate. However, the fee schedule for *KOPTERVISION* images and videos is far less than traditional aerial photography services. Rather than pay \$1,800 an hour or more for aerial footage taken from a Hughes 500 helicopter, *KOPTERVISION* offers a high-quality, lower cost alternative. Call us or write us with the details of your project and we will provide you with a written quote and statement of work.

**Q. Can you see what you are filming?**

A. Yes. The camera output is connected wirelessly to a mobile downlink station. From this station the camera operator can see the photo or video image in an LCD display and can control pan, tilt, roll, and record on-off. The display also allows the client to view a 'live-preview' of the recording. The advantage for aerial camera work is that both operator and observers can see what the camera sees in real-time—thereby providing a valuable tool for collaboration. Our goal is to work with you to get the best possible shot to showcase your subject.

**Q. When should I call and schedule my shoot?**

A. If possible please contact us at least two weeks prior to your scheduled shoot date. This type of lead time can definitely make the process go smoother, but if you are in a pinch we are capable of last minute shoots and projects with short deadlines.

**Q. What if the weather is bad the day of my shoot?**

A. We will work with you in advance to reschedule your shoot for another day.

**Q. Do I need to secure permits for flying the multikopter for my shoot?**

A. No special permits are required specifically for multikopter operation if the shoot takes place on private property. However, with any large production or public land use you will need to secure a permit for filming.

**Q. How close can you fly to subjects?**

A. We can operate safely about 10-15 feet of an actor or subject in optimum location and wind conditions.

**Q. How much room do you need to land and take off for the multikopter?**

A. About 15 foot by 15 foot flat hard surface is best.

**Q. Can you fly using GPS coordinates?**

A. Yes. Our multikopters are enabled with GPS and other telemetry downlinks such as altitude, speed, distance and other relevant data that allow us to fly to precision points.

**Q. Can you capture images over large crowds?**

A. For safety reasons we never fly over groups of people. Great shots are still possible from a safe offset distance.

**Q. Can you fly indoors?**

A. Yes. We can fly indoors provided there is enough room for safe operation.

**Q. Can you operate at night?**

A. Yes. Well-lit outdoor subjects can be shot at night.

**Q. Do you fly over water?**

A. Yes, all the time. However, there may be an additional charge due to the additional risk to the equipment.

**Q. Can you do you do chase shots?**

A. Yes. We use a moving vehicle (car or boat) where the pilot controls the multikopter following the subject.