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DRONE USES – APPLICATIONS & PURPOSES











Drone Uses - Applications & Purposes













Want to know what are drones used for? If yes, you have come to the right place. Personal drones were all the craze for the last few years.

You are most likely aware there are various **drone uses**, but you might be surprised by how varied and how many the applications are after reading this article.

Do not be shocked if you start to see a drastic difference in the method things are getting done using these amazing inventions.

Let us now list you 30 of the coolest drones use that could re-define the way you look at them.

WHAT IS A DRONE USED FOR? AND IT'S USAGE

& USES

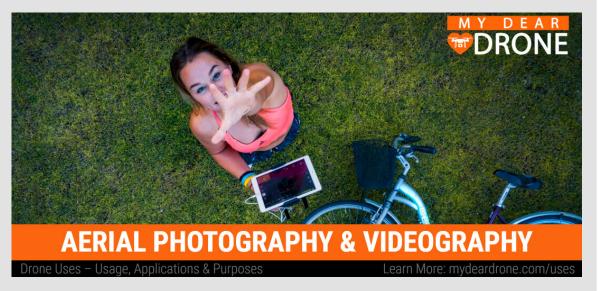
1. Aerial Photography	2. Agriculture & Farming	3. Commercial, Industrial & Construction
4. Drone Racing & Sports	5. Entertainment & Light Shows	6. Aerial Delivery & Shipping
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AERIAL PHOTOGRAPHY



Drone aerial photography is indeed **among the primary usage of drones**. Because of improved technology, a lot more quadcopters are now well-equipped to hold heavy camera equipment.

The drones, nowadays, are steady and **can take clear and crisp pictures**. You can handle what the video camera captures and sees straight from your phone and get high definition video recording to get the best results. Also, drone cameras are used in marriage and wedding photography.

Do you have ever thought what it will be as to take a selfie with a quadcopter from a particular height? It would mean more and more people can fit in the frame and you should get a true aerial view. It is indeed probably the top uses of drone.

AGRICULTURE & FARMING

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Also, **drones are used in the agriculture** field. It is especially right for mass farmers who had reported significant changes in agricultural output with the use of drones. Agricultural land's routine aerial monitoring can provide you with in-depth crop performance analysis.

Moreover, drones may perform this evaluation at **low expense** without impacting the environment or the fields. It not only results in a healthy crop growing but also will increase their yield.

Drones are used to **spraying pesticides**, **scare away crop-eating birds**, and perform other jobs. About ten days of regular work is done in around two days because of these quadcopters. The idea got spread all across the globe and used in many elements of agriculture.

One such a project is from the California-based business *Vine Rangers*, that is testing to use UAV's with infrared cams to find what the naked eye cannot see in the wine-making process. With a combo of software and drones, they **check for diseases then analyze the grade, stress, leaf respiration, yield**, etc., to improve wine and grapes.

COMMERCIAL, INDUSTRIAL & CONSTRUCTION

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Some people believe, sooner or later, drones shall work alongside with humans to **lay building foundation** and perform similar civil engineering, industrial duties. And, some people are experimenting already with such jobs.

Drones, and mainly quads are finding its way in the construction industry in many ways. The main 5 include:

- Inspections.
- Employees monitoring.
- Show customers an aerial look of construction progress.
- Surveying.
- Security.

Frequent aerial monitoring could bring about **significant advancements in construction infrastructure** resulting in improved performances. Furthermore, in case the aircrafts are tiny enough, they may get near to capturing images that can provide you with a more thorough idea of construction.

Construction companies which are using aerial photography multirotor as their primary marketing option are already noticing **growth in business** because of this and even got consumers choosing them for this very reason.

A few companies are using unmanned aerial vehicles to **record construction site's aerial views** and using this in the three-dimensional modeling done by the architect. It is not just an excellent construction tool, vet also a useful marketing tool while trying to approach or sell a project.

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DRONE RACING & SPORTS



It is **another popular drone use** that is finding their way into your lives. Much more users are now getting into this activity and following it like a hobby.

It **is like a video game race** except you encounter actual scenarios, and you will control a proper quad. For this reason, you would require **an agile flying machine** that can do acrobatic movements and sudden turns.

You can use it for a cathedral, a charity, your business, or other kinds of the fund-raising campaign, and everybody would like to race one another. Let us face it, which firm would not love to hold an exciting activity like this?

ENTERTAINMENT & LIGHT SHOWS



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Perhaps much more than other things, **theme park drone light show** is considered something near to too good for this earth. The drones will **beam down images on a projection** set up. Imagine a bigger-than-life character displayed in your front by a drone.



One of many innovative drones uses that quickly caught plenty of media interest was food and product delivery through drones. Big companies such as **DHL**, **Amazon**, **Dominos**, **and FedEx** are testing using the drone for local transport of their items. It could significantly **lower human labor** and **speed up delivery times**.

Think of this tech for a second. Not only would you get super-fast product delivery you need or want to your house, but you could also get that product shipped to anywhere you are now. It means you can place your orders from home, go to your close friends home, and have your delivery there.

A big obstacle for drone companies currently is **FAA limitations** on the commercially uses for drones. These are not permitted at this time without express authorization by the FAA. They are working on changed guidelines. Till then, delivery drones are merely experimental.

Delivery companies and retailers are **still going through numerous challenges** to have this technology possible, but it is only about time before

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these problems are sorted out. The main worry is **reliable delivery and public safety**. Several techniques are getting used to tackle these issues.

Amazon Delivers with Drones

In the plans for already some years, **Amazon Prime Air** plans to use drones to send out customer orders, like a set of sneakers in half an hour or less.

These flying cameras are **built with sensors** which allow these to avoid hurdles along the path, land the parcel safely close to a customer home or any other place, and go back to the command post.

If it is approved, over half your food orders and shopping could get done inside space of some minutes, with multirotors delivering your parcels at your house.

FILMING AND MOVIES



With such innovative advances in UAV technology, like autonomous flights, is not there a high chance that quadcopters will take up a much bigger part in the video and film world? **For certain**.

With developments in video-capture quality and drones, it might even change the video and film industry. We may perhaps come across a system in which a drone may capture a whole scene **entirely automatically**, with all the correct pans and pre-programmed tilts in advance.

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Lots of movies today are shot with drones and other quadcopters. A few of the movies that show up when you discuss filmography using drones are the well-acclaimed Leonard Di Caprio's The Wolf of Wall Street, James Bond's Skyfall, the evergreen Harry Potter & the Chamber of Secrets, the famous TV series Game of Thrones, and the likes.

FIRE FIGHTING



We already know helicopters being deployed for firefighting however soon drones could change it. **Aircrafts are getting developed to help out with firefighting**. The good news about this is compared with choppers that are dangerous to the operator; the drones are **unmanned**.

Also, you can curtail the **fire outbreak situations** with the guide of quads. It is often better to dispatch drones first at a fire break out to **observe the situation** before humans go inside.

HUNTING SUPPORT

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Just decades ago, there is no means to say what you are getting into while wandering through woods. Once your choice of the season arrives, you can use a copter to see whether it is **worth wandering for**, also if your **desired game is out** just waiting for you to encounter them.

HARD TO REACH, HIGH ALTITUDE OR CRITICAL PROCESSES



People are interested in exploring hard-to-reach places for quite a while primarily to **better predict real-time drone data**, but additionally, **test for resources** throughout the area, **study gases** beaming from the altitude, and to find out more on the **real life**.

For instance, studying volcano is hard to do since it is difficult to access

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views was near no-no as a standard quadrotor cannot fly near enough. Drones were recently used to get **air samples and aerial photography** of different volcanos worldwide.

SENSORY & INSPECTION



Just like other industries, quadcopters are proving valuable in performing inspections. They are changing the application of an individual physical inspection and costly to operate choppers. It includes regular inspections of stuff such as equipment, roads, water, and power lines.

Drones can **access cluttered spaces**, like where complex pipes are laid inside construction walls, to collect hard to reach information. These features **built-in LEDs** for darkness visibility and a **versatile outer cage** which allows it to rebound off of obstructions. It should **lower downtime**, **reduce inspection bills**, **and improve worker safety**.

You can use quadcopters, for instance, to count up the amount of markers in highway and to make sure guardrail is long enough and correctly placed. For inspecting bridges, drones provide a lot more quality and efficient inspection process.

Airlines are **experimenting** what drone can do to pace up aircraft inspection. The crafts can hover all over the planes, capturing **HD videos and photos** that the engineers can then **analyze instead of manually** having to check the airplane.

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NEWS & JOURNALISM



The capability of the quadcopters to reach areas **where reporters could not reach** has increased their usage in the journalism world.

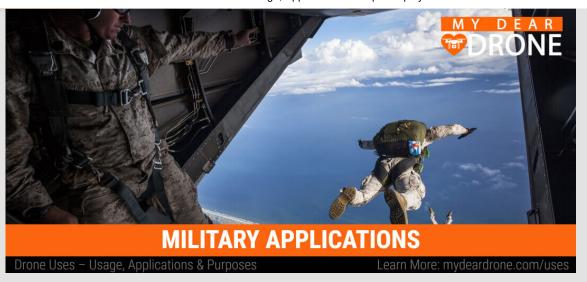
Also, drones with cameras are re-defining the way you watch news. Each the private hobbyists and press themselves are sending UAVs into late-breaking headlines scenes to record the action. It includes traffic jams, fires, crimes in progress, and many more.

A few of the main benefits to quad copters over typical news choppers are:

- Can get nearer to the scene.
- Can deploy much faster.
- Less sound (necessary if using audio).
- Inexpensive to operate.
- More maneuverable.

MILITARY & ARMED FORCES

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Drones have had numerous uses in the **defense**, **military**, **tactical**, **and modern warfare** world.

These unmanned aerial systems are used to the **air strikes purpose**. They travel around **suspected locations** as controlled from the navy individual and they are operated in certain areas to fulfill army operations of government.

Small size and powerful cameras make them suitable for **bomb detection purposes**. Thus, these drones are apt to make us informed about **unexploded** bombs thus saving lives.

The defense sector of any nation usually **conducts frequent surveys** to ensure the safety of the place and the people. Using quads, in this situation, could reduce physical labor and also you receive a wider FoV (field of view). Also, it **does not affect** the ordinary people's life.

MAPPING APPLICATIONS

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Drones also had a **significant impact** in the mapping field.

There are parts of the earth which are **not quickly accessible** for humans. However, for the goal of understanding the landscape and prepare 3D maps, flying cameras have been used. This system is now available to everybody to capture **images for mapping** such locations.





Drones are seeing a lot more application in mining jobs worldwide. It is getting deployed to deal with works that are **dangerous or arduous** to workers.

To make mine employees secure, drones also are being used to scan for spaces such as **mine entrances and pit walls** especially if the

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spot is considered being unsafe and dangerous to mine workers.

Both mapping and modeling are crucial to mining organizations. The application of UAV in this segment provide **far more accurate models and maps** and are **much less expensive** compared to existing popular methods.

Equipped with unique equipment, you can also use drones to search for minerals. Mining businesses are testing equipping quadcopters along with **Multi-spectral vision** devices. It enables companies to discover ore by piloting drones around different areas and inside current mine pits.

MEDICAL & EMERGENCY



Now, should you are like us, you are wondering *How in the earth can drone used in the medical field?* Well, it looks like Microsoft is researching with using quadcopters for medical reasons, and specifically **much in advance to people becoming sick**.

The basic procedure is very straightforward. Drones are armed with bug collecting tool and then piloted around outside in various points of interest. The quad comes back with the bugs collected that are then taken to scientists to conduct the analysis.

Nevertheless, drones and its associated collection gadgets **cannot differentiate one bug from other**, and **cannot only collect mosquitos**,
but that is what really scientists care about. Then, analyzing it is a **processor Send Feedback and time-consuming** process.

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However, even with these complexities, imagine a universe where scientists can publish **warnings** for public living in remote and high-risk areas of **likely Malaria** and also other **deadly diseases**? It would allow them to take **preventive steps** before things become worse, and a huge outbreak occurs.

Emergency

Emergency drones focus on solving an issue that was the **death cause** in many unexpected medical emergencies, like cardiac arrest. These aim to reach the site in those **early minutes** that usually are very important, till the actual ambulance arrives.

It is made with **two-way audio interaction ability** and **video**, and compartments along with **first-aid kits**. The drones used for emergency services should get to the victim then **instruct somebody close by what to do** using the advanced first-aid gear.

The plan to the medical drone is to **incorporate into existing** emergency response systems. This idea presently **lacks commercial back up** and faces several other challenges, just like most UAV ventures.

POLICE & LAW ENFORCEMENT



Drones have loads of potential for law enforcement.

These devices got the innate capability of flying around places **drawing no**Send Feedback by the people. Hence, it can be **useful for public safety or**

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surveillance.

Groups of people could be monitored plus criminal activities can get detected if there is an outbreak.

Also, these can be used by law enforcement officers for **crime investigations** where a detailed view may give you more details about the scene.

Moreover, drones also are **used by most border patrol officers** who work to monitor criminal activity in the border mainly the **smuggle drugs transport**.

HUMAN PASSENGER CARRYING



Most drones currently are used to deliver an item from one destination to another, yet none of those is used to carry people. The whole idea of a **passenger drone** is to take flight unmanned anyway.

However, Ehang already has put together a concept model called **Ehang 184** which can be flown to ferry passengers to places. The drone got space for a single person, and all it needs to do is you take a seat and select where you would like to go then you shall be there.

REAL ESTATE PHOTOGRAPHY

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Among the earliest mainstream uses of personal quadcopters and drones was from **real estate agencies** as a promotional tool for listing homes.

For decades, realtors **relied on pictures** to show with home listings. Pictures alone **never really gave** potential customers a real sense of what the house felt like or looked like. Photos were **one dimensional**.

To fix this problem, virtual walkthroughs and even a few videos got famous. Virtual walkthroughs never truly caught on although video started to become an excellent sales and marketing solution for agents.

Using RC crafts, agents now can film footage of hard to see things of a house, show more clearly the scenery, and surrounding areas of a residence. Furthermore, visually show home's proximity to neighboring houses, and neighborhood facilities like playgrounds, tennis courts, and pools.

Therefore, the use of drone in property marketing is booming. Many photographers are **getting hired** by realtors to perform their specialized expertize in home's aerial photography, a new rising job market.

RECREATIONAL, HOBBY & FUN

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Obviously, drones are handy gadgets for various uses. However, you cannot forget that these are also **suitable for recreational** reasons.

More users are using drone for recreation purposes **than in the past**. Even children can be spotted flying compact, mini drones or kid's drone inside their homes premises.

The good thing is that hobby, and personal usage of drone is **perfectly under regulations in America**. You can do recreational flying anyplace but is recommended if done in open areas so you can actually see your quadricopter.

ROBOTICS & EXPERIMENTAL APPLICATIONS



population is declining, and we no longer can take pollination

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to granted. This tiny creature is the agriculture backbone and the foods that we consume.

Walmart has recently applied a patent to the robot, autonomous bees. The companies patent specifically addresses pollination drones. These small robots could behave similar to bees, autonomously pollinating crops.

The bee robots would operate with **cameras and sensors** to allow them to find their way smartly to crops. Autonomously flying around, these drones can pollinate as precisely as the real deal. Incorporating autonomous programs into farming can **increase agriculture productivity and cut costs**.

While scientists strive to analyze declining pollinator statistics better and hopefully think of solutions, these farming drones can keep fresh produce, and agriculture, alive.

SURVEYING



Over time, lots of people did spend plenty of **energy and time** over surveys. Drones now have turned this job simpler because they can get us **essential details and footage**. It has significantly assisted the surveyors on their surveying mission.

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SURVEILLANCE & MONITORING



A rapidly increasing drones usage is within the field of surveillance and security. Drones allow you to spy areas and quick reach (often hard to see places) without actually needing to be present, and at minimum risk.

Surveillance drones recently have been used for:

- Anti-poaching efforts.
- Border patrol.
- Building security.
- Surveillance and monitoring of big crowds at gatherings and protests.
- Private and police investigations.
- Prison surveillance.
- Accident surveillance and road traffic monitoring.

These are just some, the opportunities here are almost endless. However, why drones ahead of traditional security and surveillance technologies? Listed below are just some reasons:

- Drones are tiny, harder to see, and less distracting.
- Easy to hide for different conditions.
- Provide no threat to the life of a human in more risky situations.
- Quicker to deploy.
- Significantly less expensive.
- They can fly into tight areas and be closer compared to traditional aircraft.
- Their small blades and electric motors are much silent than traditional

Send Feedback and helicopters.

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Using quadcopters to surveillance and security is becoming very popular, that fresh companies are getting created every day focusing in this drone types. It would be a developing area, and wide open significant **job and financial opportunities** for you.

SEARCH AND RESCUE OPERATIONS



EMERGENCY SEARCH AND RESCUE

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Drones are getting a lot of **negative press** lately. You will find many **positive drone uses** though, and its recent new application in search & rescue mission is a big thing.

Generally, a rescue mission is a battle against the clock. You must get the job done smoothly and fast. It is where quadcopters come in useful.

Search and rescue drones can:

- Provide aerial photos and video for considerably less money than conventional helicopters.
- Fly and maneuver into hard to access spaces.
- Fly securely low to the ground.

Like full-sized aircraft, drones can carry HD GoPro cameras, and also thermal imaging unit to help **locate animals and people**. Also, these are handy for **sending medical or food supplies** to inaccessible areas ahead of the rescue squad comes in for support.

Because of their practical advantages, drones are getting used more Send Feedback s a part of search & rescue operations.

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One more important uses of drones lie in **disaster management**. You will often see there are **resources mismanagement** and **utter chaos** right after a natural disaster. Drones can help you drastically here.

SPACE & NASA



Drones are launched by space centers on the earth to **improve connection networks** of certain international manufacturers or network. As a use, it then suspends the device in the low-earth orbit to **enable wireless networks** around a specific part of the globe.

Space agencies sent **astronomic drones or space probes** to the universe. The aim is to study the vast galaxy of our solar system to find **cosmic phenomena** within deep space.

NASA and some other international space centers from worldwide are sending larger drones to a close by planets like **Mercury**, **Mars**, **Jupiter**, **and Venus**. These space drones would aim to explore further the **chemical composition**, **surface**, **and atmosphere** of the targeted planets.

The NASA sent an advanced telescope device called the "Hubble Space" that was set in low-earth orbit. Now for the drone usage, it is a telescoping drone that will help scientists to identify **a new phenomenon** outside of the solar system and **astronomic bodies**.

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SPORTS AERIAL COVERAGE

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Drones will change the tradition you watch TV, mainly sports. NASCAR, golf, football, and other outdoor (and some inside) sports are finding massive interest in the **aerial photography drones use**.

Drones provide one of a kind perspectives and view **not possible from** rail or fixed cameras. One big advantage is **drones can follow along** with the move. A **drone that follows you** will actually trail athletes and record them close up with stabilizing cameras.

TELECOMMUNICATION COVERAGE EXPANSION



On a high note, **Facebook and Google** have, for a few years now, invested in individual drone technologies along with the purpose of **spreading net**Send Feedback virtually the entire planet.

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Technically, Google is not invested in drone technology instead, but, a balloon thing known as **Project Loon**. Nevertheless, Facebook's investment is in **real drones**, **solar-powered** and intended to fly over 10 miles over the ground to supply net access to regions below it.

WEATHER FORECASTING & MONITORING



Among the critical uses for drones is weather forecasting. It has, once more, given new hope to the idea of forecasting the climate conditions.

With active sensors and exceptional cameras, these aircraft can collect **vital points** that could help in weather predictions.

For example, sending drones to the tornadoes, hurricanes, and so on could bring you essential videos to study its occurrences and patterns.

Entities like the **Sirens Project** and models such as the **Tempest** are used to try to get as close to the face of the tornado as much. As an RC hobbyist, you can find many problems that could occur with the **Federal Aviation Administration**, but the application is there to the future, nevertheless.

WILDLIFE MONITORING

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The best reason about using quadcopters for these purposes is they **do not** disturb or affect wildlife. Many conservation parks and wildlife sanctuaries are thus **switching to quads** to ensure security.

They can get used at dark with thermal sensors camera to monitor wildlife all the time. The video from the devices can help you study animal habits and analyze its patterns.

Also, wildlife monitoring can cause **poaching prevention**, which is among the causes why many species are being endangered of late.

GARDENING



It does not matter if you are shoveling, getting prepared for gardening **leaning your crops from harvesting**, it is always good to have Send Feedback

timely delivery right in your disposal. From an **extra spade to some spare soil and pots**, a drone is your futuristic tool in the gardening department.

Only the time can tell you how they may ethically evolve, and which extra application of drones is uncovered. What is certain is we will hear more about these in the upcoming year and months.

CONCLUSION

We feel it is just the beginning as people start to integrate UAV technology more to their daily lives and jobs.

Drone is no more only for the pro users. Drones for beginners have entered the market, and many businesses are excited to use the capabilities of these devices to the greatest effects.

Drones have the potential and ability to transform the way things operate surprisingly. Tell us what the drone uses ideas you have in comments.



Jeff on February 6, 2019 at 6:37 pm Thanks for sharing it.

Reply



Oliver McClintock on March 22, 2019 at 10:46 am You are most welcome Jeff!

Reply

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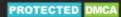
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