TESCA™
TECHNOLOGIES PVT. LTD.

TESCA is one of India's

DRONE MANUFACTURERS,

Training, and Aerial Security

www.tescaglobal.com

About Us

TESCA is one of India's drone manufacturers, training, and aerial security. Our objective is consistently to engage you to convey the most ideal work while reducing expenses, saving time, and finishing projects all the more without any problem. TESCA was created considering the real factors of your work.

TESCA is a supplier of aerial imaging arrangements and planned a completely incorporated and strong drone arrangement with aerial stages that extends the functional capacities of our clients. The new drone arrangement offers a simple and safe aerial admittance to testing regions, a bigger surface inclusion in a solitary flight, higher goal pictures, and a valuable chance to procure aerial information with a savvy, and proficient device.

Here at **TESCA**, we have an upward direction coordinated association with in-house R&D, plan, programming, assembling, administration, and preparing tasks, TESCA conveys elite start-to-finish answers for a variety of robot necessities in guard, country security, and venture areas. The organization is persistently advancing and testing to change its aeronautical stages, to offer more noteworthy execution, higher unwavering quality, and independence.

What are Drones or UAVs?

An unmanned aerial vehicle (UAV), generally known as a drone, is an aircraft with next to no human pilot, group, or travelers ready. UAVs are a part of an unmanned aircraft System (UAS), which incorporates adding a ground-based regulator and an arrangement of correspondences with the UAV. The trip of UAVs might work under controller by a human administrator, as remotely-piloted aircraft (RPA), or with different levels of independence, for example, autopilot help, up to completely independent aircraft that have no arrangement for human intercession.

Applications of Drones?

Lately, autonomous drones have started to change different application regions as they can fly beyond visual line of sight (BVLOS) while expanding creation, lessening expenses and dangers, guaranteeing site wellbeing, security and administrative consistence, and safeguarding the human labor force during a pandemic. They can likewise be utilized for purchaser-related missions like bundle conveyance, as shown by Amazon Prime Air, and basic conveyances of well-being supplies.

There are various regular citizen, business, military, and aviation applications for UAVs.

These include:

01. Agriculture
02. Defence
03. Delivery
04. Disaster Relief
05. Forestry
06. Mining
07. Photography
08. Solar Farming
09. Surveillance
10. Surveying
11. Wind Farming

1. Agriculture

Drone innovation lastingly affects the Agriculture business of India and its proficiency. We present drone-controlled answers for farmers to increment efficiency in crop checking to plants, Domesticated animals The board, Pesticide Showering, Yield Pressure distinguishing proof, Treatment Arranging, Plant Development Observing, Accuracy Cultivating, Exploring, and considerably more.

We utilize cutting-edge Aerial Looking over drones outfitted with cutting-edge sensors, like RGB and Multispectral Sensors, to acquire exact information. Drones, for example, DJI Motivate 2 gather high-goal crop information to recognize any issues with the yields and tell them for guaranteed activity before harm happens. Geo-tagging Aerial Pictures give important data that diminishes cost and lifts yield by a huge rate.

Crop Health Analysis:
Our first-class drones outfitted with Multispectral camera sensors can distinguish illness and stress in the underlying stages, once in a while before it is even clear from the beginning with standard variety cameras. Our drone studies likewise give continuous symbolism of the fields for accuracy in agriculture.

Pesticide Spraying:
Spray synthetic compounds to kill bugs and undesirable plants, for example, weeds and spraying pesticides is vital for keeping up with crop wellbeing. Drones fitted with pesticide spraying hardware capability are all the more proficiently and for a small part of the expense contrasted with manual spraying. Besides the fact that we accomplishing are our Accuracy Agriculture by saving time and work costs fundamentally, we are likewise shielding farmers from coming into contact with different harmful synthetic compounds.

Field Soil Analysis:
The soil nature of crops can either represent the deciding moment of a rancher's efficiency. Soil Analysis is an urgent move toward being taken by farmers during the crop cycle. This information upholds farmers in deciding the best cultivating examples of planting, overseeing crops, and soil. Also, field soil analysis additionally expands the security and well-being of laborers.

2. Defence

An unmanned combat aerial vehicle (UCAV), otherwise called a combat drone, casually abbreviated as drone or battlefield UAV, is an unmanned aerial vehicle (UAV) that is utilized for knowledge, surveillance, target procurement, and observation and conveys aircraft weapons like rockets, ATGMs, as well as bombs in hardpoints for drone strikes. These drones are generally under continuous human control, with fluctuating degrees of independence. Not at all like unmanned surveillance and observation aerial vehicles, UCAVs are utilized for both drone strikes and front-line insight.

Aircraft of this kind have no locally available human pilot. As the administrator runs the vehicle from a far-off terminal, hardware vital for a human pilot isn't required, bringing about a lower weight and a more modest size than a monitored aircraft. Numerous nations have functional homegrown UCAVs, and a lot more have imported outfitted drones or are currently creating them.

3. Delivery

These drones are used to transport packages, medical supplies, food, or other goods. Delivery drones are typically autonomous.

Medical Delivery:
Drones can be utilized to ship restorative items like blood items, antibodies, drugs, and clinical examples. Medical conveyances can fly into and out of remote or generally distant locales, contrasted with trucks or bikes. Medical drone conveyance is credited with saving lives during crisis delivery of blood.

Food Delivery:
Drones have been proposed as a solution for rapidly delivering prepared foods, such as pizzas, tacos, and frozen beverages.

4. Disaster Relief

Inescapable as they are, disasters are, emblematically, the encapsulation of normal events. By their intrinsic ethics, disasters plant the seeds of misfortune. The idea of the disaster decides the degree of the disappointment, coming about because of the death toll, property, vegetation, framework, and essentially more. The unavoidability that accompanies disasters actuates the foundation of provocative security measures.

Delivering Pressing Supplies:
Exemplifying multifaceted design, one more explanation that demonstrates UAVs' worth in disaster management is their capacity to deliver crisis supplies. Crisis supplies envelop emergency treatment, effective meds, and little apparatuses for help like ropes, and spotlights. Besides, drones can likewise give food supplies and energy instigating supplies through quadcopters and drones.

5. Forestry

The life and soul of our planet, forest ecosystems, compensate for 31% of the world's biodiversity. Being the main natural wellspring of air for different ecosystems, the manageability of forests is gigantically essential. Amusingly, all things considered, the comprehension of the importance and supportability of forests is vigorously hindered. As humans, we will generally lean towards the pursuit of curiosity and change occasionally.

Life-Saving:
Drones, as utilized for search and salvage missions, attract the upsides of prompt alleviation in compromising circumstances. For natural life observing and biodiversity checking, UAVs end up being exceptionally clever at irregular seasons of misery and risk, which are successive events in forest ecosystems. Tasks and errands of conveyance of crisis medicine, surveying for destructive exercises, a quick guide to weak lives, and so on, are a couple of examples of uses of drones in forestry that save time and subsequently, life.

Wildlife Monitoring:
Unfortunate to refer to, however one of the most serious risks of forests are the liabilities and hazards to natural life and biodiversity. Embracing its relationship with widely varied vegetation, forests must be observed to guarantee the security of the equivalent. With the assistance of drones and UAVs, the equilibrium of the biological system can be kept up, to better degrees.

Forest Fire Monitoring:
Albeit totally killing the events of forest flames are close to inconceivable, we sure can keep away from it by miles. Threatening as they are, forest flames owe their staggering nature to more than one reason. With their speed and accuracy, drones can be utilized to examine the regions traversing the forests for likely dangers of flames.

6. Mining

We present Aerial Mapping / Surveying for Mining sites employing fashionable drone technology. Having satisfied Centimeter Level Accuracy, our GIS maps assist operation managers in the process of enhanced decision-making, allowing mines to be more productive and smart. Along with 30x faster data collection and 100% safety Drone Powered Surveys, smart management allows companies to keep track of stockpile management, Mining operations, Haul road optimization, water and sediment flow, mining exploration, mine blast assessment, etc.

Stockpile Management:

No matter what your work is in the development, mining, or total area, stockpile management is an unquestionable necessity. Allocating your labor force for stockpile estimation can be perilous, tedious, and expensive. All stockpiles change in shapes and sizes, making it trying to gauge their volumes with high precision through customary techniques. All things considered, the most ideal goal is to utilize excellent drones to amass survey information. We advance stockpile volume assessment with close to 100% precision and further loss issues concerning mine tasks and staff security.

Blast Arranging and Evaluation:

One of the key utilizations of drone innovation should be visible in geology and mining activities, particularly in arranging, charging, and requiring blasting tasks. This combo of unmanned vehicles and 3D Photogrammetry convey High-Accuracy Inspections of the blasting region to make basic assessments in regards to somewhere safe.

7. Photography

Serving as trailblazers in the drone business, we endeavor to hold onto the most enthralling landscapes that are generally challenging to observe. Our imaginative Drone cinematographers have kept on charming our clients with their awesome drone recordings and drone photographs across India. Drone Photography and videography is a boundless method picked for occasion inclusions, The travel industry advancement, land ad, and so on and we cater to all!

Utilizing Aerial Photography, we enjoy great aerial shoots to convey scenes, pictures, and video voyages through neighboring offices. Thorough and innovative Aerial Symbolism empowers organizations to sell their property faster and imperatively project them to their clients.

Aerial Photography:

We offer stunning high-resolution Aerial Photos of clients' resources and property with the assistance of expert drone cinematographers. Drone Cinematographers accept the Picture according to our client's end necessities like Private photography or Lodging Resorts Photography.

Aerial Videography:

We offer shocking High Quality Drone Recordings to our clients. Drone cinematographer catches shocking Drone recordings as per our client's necessities utilizing our top-of-the-line Filmmaking Drones.

8. Solar Farming

With a passion for technology and a drive to assist various industries, the renewable energy sector is flourishing with Drone Surveys. It is imperative to secure the quality of the solar power plant for adequate power generation, saving costs, and maintaining a long life of the asset.

Solar Panel Inspection:
Our key goal is to distinguish the broken Solar Panels so they can be supplanted by the makers while they are in guarantee, boost yield/productivity, and proactively resolve issues subsequently limiting support cost. We influence drone Warm Imaging and Aerial Inspections to give precise and definite inspections speedier and more expensive.

9. Surveillance

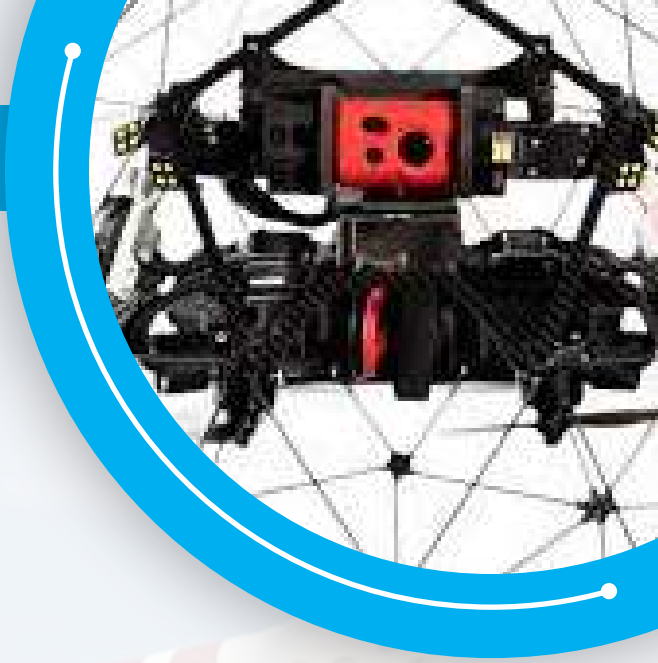
Surveillance drones or Unmanned Aerial Systems (UASs) raise critical issues for security and common freedoms. Drones are competent and profoundly progressed surveillance, and drones currently being used by policing convey different kinds of hardware including live-feed camcorders, infrared cameras, heat sensors, and radar.

Powerline Monitoring:
Power line review utilizing drones is taking off as an extreme arrangement, as it can cover monstrous segments of surface in each flight and give a precise representation of the electrical cable parts as well as encompassing articles.
TESCA's AI arrangement empowers a quicker and that's only the tip of the iceberg exact assortment of visual data, successful fixing, while at the same time limiting the dangers to reviewing groups.

Pipeline Inspection:
Pipeline frameworks should be continually checked because of the expected danger to lives and financial misfortunes. The Oil and Gas organizations' interest in a solid and tough review device is completely tended to by TESCA's drone arrangement.

It empowers quick appraisal of the lines' condition, precise identification of disintegration, uncovered pipes, and substantially more, and assists leaders with focusing on support also, fix mission.

10. Surveying



Our Drones endeavors to give obvious Aerial Drone Studying/Planning administrations across India. From having served the Public authority and Confidential area in Land Studying, Aerial Reviewing for Land executives and Advancement, Land Slant checking, Store volumetric estimations, Planning savvy urban communities, Planning greenfield projects, and so on our experience stays unbeatable. Decked with Very good quality studying Drones and a group of talented authorized Pilots, our clients get the expectations quicker, thus advancing more spry navigation.

Land Surveying:
Our across-the-country and customized administration of drone surveying empowers us to acquire exact geological guides and 3D models of regions with unaccessible proof. Broad land studies and geological reviews grant the clearest portrayal of cadastral guides, right away and in a problem-free way.

Metropolitan Planning:
With amazing headways in drone innovation, the utilization of drones in metropolitan arranging has become broad. Through drone surveying, we can aggregate gigantic measures of information rapidly and at lower costs because of computer-based intelligence handling and AI.

11. Wind Farming

Wind turbine and blade inspection are exceptionally difficult as the inner construction of the blade might foster some underlying issue that might be undetectable from the outside. We offer drone-fueled answers for tackling such difficulties.

Wind Turbine Inspection:
Wind turbines, frequently situated in far-off regions, require millimeter-sized harm spotting to distinguish, respond to and fix issues rapidly and with negligible impact on the turbine execution or the climate.

Our enormous region sensors give a nearby and nitty gritty glance at all turbine parts (counting the cutting edges) that can forestall an unexpected disappointment by recognizing looming harm and indications of wear ahead of time and further develop upkeep methodologies.

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