



Survey & Surveillance Services Using Drones

LEDO INDIA BUSINESS SOLUTION

About Ledo India Business Solutions

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- LEDO India Business Solutions specializes in cutting-edge technology solutions to enhance business operations in various sectors. With our drone services, we aim to revolutionize survey and surveillance capabilities.
- To deliver high-quality, data-driven insights through drone technology, offering solutions that are cost-effective, accurate, and efficient.







Surveying with Drones:

Drones in surveying offer a fast, accurate, and cost-effective way to collect data. They can quickly capture high-resolution images, 3D models, and topographic maps over large areas, even in remote or hard-to-reach locations.



Surveillance with Drones:

Drones enhance security surveillance by providing real-time monitoring and footage from hard-to-reach areas. They can cover large zones quickly, offering a 360-degree view of a site, whether it's an industrial complex or construction area. With thermal cameras and night vision, drones enable 24/7 monitoring, reducing human risk and providing quick responses to potential threats.

Why Choose Drones For Survey & Surveillance?



Benefits of Drone Technology:

- **Cost-Effective:** Reduces operational costs by eliminating manual survey methods.
- **Time-Efficient:** Fast data collection over large areas.
- **High Precision:** Provides high-resolution imagery and data.
- Access to Remote Areas: Drones can reach difficult-to-access or hazardous locations.
- Real-Time Monitoring: Live feed and data analytics for immediate decision-making.



Our Drone Survey & Surveillance Services

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- Construction & Infrastructure
- Real Estate
- Mining & Quarrying
- Environmental Monitoring & Conservation
- Energy & Utilities
- Surveying & Mapping
- Transportation & Logistics

- Security monitoring
- Crowd & Event Monitoring
- Wildlife & Environmental Monitoring
- Infrastructure & Industrial surveillance
- Law Enforcement & Public safety
- Traffic & Vehicle
 Surveillance
- Search & Rescue Operation



Drones are widely used in construction and infrastructure surveys for site mapping, progress monitoring, and structural inspections. Equipped with cameras and sensors, they provide accurate 3D maps, monitor construction progress, and inspect hard-to-reach areas like bridges or towers.

Example:

a drone inspecting a 500-meter bridge can capture high-resolution images and thermal data, identifying cracks or weaknesses without scaffolding, reducing costs, and improving safety.

Construction & Infrastructure Survey

Real Estate:

Drones are transforming real estate by capturing stunning aerial views and creating immersive virtual tours. For example, they showcase luxury villas with oceanfront views, map large farmland properties with detailed visuals, or highlight urban apartments with rooftop amenities. This enhances marketing efforts, attracts buyers, and saves time for agents.

Example:

Luxury Villas: Capture aerial footage of a villa's infinity pool, lush gardens, and proximity to pristine beaches, creating a cinematic experience for potential buyers.

Commercial Properties: Showcase expansive parking lots, building layouts, and accessibility in dynamic promotional videos for offices or malls.

Resort Properties: Highlight stunning landscapes, walking trails, and exclusive amenities like golf courses or spas through panoramic drone views.





Drones are revolutionizing mining and quarrying surveys with unparalleled efficiency and precision. They deliver high-resolution aerial imagery, create detailed 3D terrain maps, and provide real-time insights, transforming how sites are managed.

Example

In a bustling limestone quarry, drones capture dynamic aerial footage to calculate stockpile volumes with pinpoint accuracy. They also survey steep cliffs for potential hazards, ensuring worker safety while dramatically reducing costs and survey time.

Mining & Quarrying Survey

Drones are invaluable in environmental and conservation surveys by providing a non-invasive way to monitor ecosystems, wildlife, and habitats. Equipped with high-resolution cameras and thermal sensors, they can track deforestation, map endangered species' habitats, and detect illegal activities like poaching or pollution.

Example

Drones are used in rainforests to monitor tree health, track wildlife movements, and assess damage from logging or forest fires without disturbing the ecosystem.



Environmental Monitoring & Conservation



Energy & Utility Surveys

How Drones Work in Energy & Utility Surveys:

- Powerline Inspections: Drones can fly along power lines to detect wear, damage, or faults, using thermal imaging to identify hot spots that could indicate electrical problems or potential failures.
- Solar Farm Monitoring: Drones equipped with infrared cameras can scan solar panels to detect malfunctioning or damaged panels by identifying temperature variations.
- 3. **Wind Turbine Inspections**: Drones can inspect turbine blades, checking for cracks, wear, or damage that would typically require climbers or scaffolding.
- 4. **Pipeline Surveillance**: Drones fly over pipelines to monitor for leaks, cracks, or vegetation growth that could affect the pipeline, reducing the need for extensive ground-level inspections.

Drones provide security monitoring services by offering real-time surveillance over large areas, tracking movement, and detecting potential threats. Equipped with high-definition cameras, thermal sensors, and GPS, drones can patrol perimeters, monitor crowds, and respond to incidents quickly. For example, airports use drones to monitor restricted areas, detect unauthorized access, and provide instant alerts to security teams, ensuring fast responses to potential threats.

Example:

At Dubai International Airport, drones are used for surveillance, monitoring runways and terminals to ensure security. They help detect unauthorized vehicles or people and transmit live footage to the security control center.



Security Monitoring Surveillance



Crowd & Event Monitoring Surveillance

Drones are deployed above events or crowded areas, capturing continuous live footage. Thermal imaging can help monitor people in low-light conditions, while GPS allows for precise tracking of individuals. The live feed is sent to security teams, who can assess the situation and respond quickly to any incidents.

Example:

During a Mahakumbh mela, drones fly over the crowd to monitor behavior and ensure safety. If a fight breaks out or if there's a sudden crowd rush, drones immediately alert security teams with real-time visuals. This enables a swift response and helps prevent escalation without the need for physical intervention.

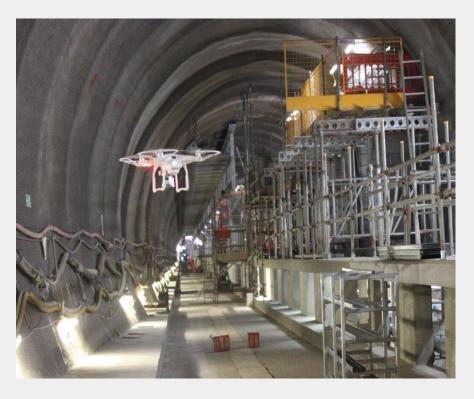
Drones are revolutionizing wildlife monitoring by offering a safe, efficient, and non-intrusive way to observe animals and protect their habitats. Equipped with advanced cameras, thermal sensors, and GPS, drones can track animal movements, assess population health, and detect illegal activities like poaching or deforestation. Their ability to cover vast and remote areas makes them invaluable for conservation efforts.

How Drones Work in Wildlife Monitoring:

- Tracking Movements: Drones follow animal herds or individuals to study migration patterns and behavior without disturbing them.
- Monitoring Health: Thermal imaging identifies sick or injured animals by detecting heat changes.
- Anti-Poaching Patrols: Drones scan protected areas, alerting rangers to suspicious activities or trespassers.
- Habitat Analysis: Aerial surveys map ecosystems, assess vegetation, and detect environmental changes.



Wildlife & Environmental Monitoring Surveillance



Infrastructure & Industrial Surveillance

Drones in infrastructure and industrial surveillance provide real-time monitoring of large facilities, ensuring safety, security, and operational efficiency. Equipped with cameras and sensors, they inspect pipelines, monitor construction progress, and patrol industrial zones to detect anomalies or unauthorized access.

Example in India:

Drones are used in India's oil refineries to inspect pipelines for leaks and corrosion. For instance, Indian Oil Corporation uses drones for aerial surveillance of its pipelines, reducing inspection time, ensuring worker safety, and preventing accidents.

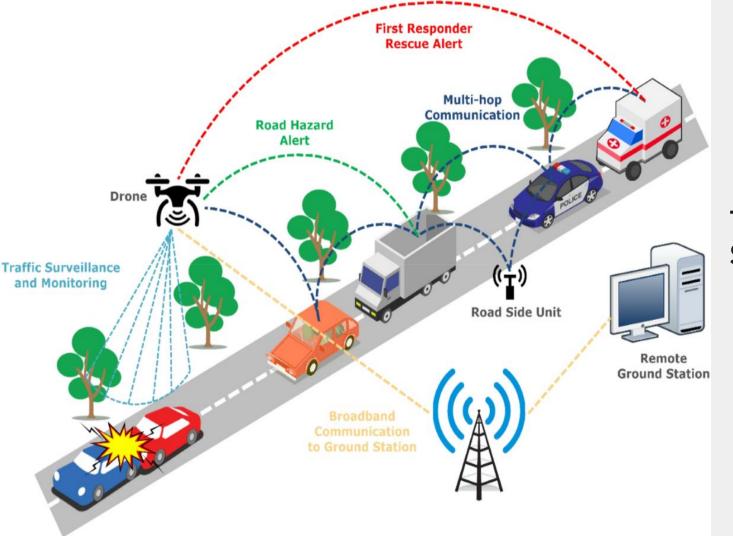
Drones are becoming essential tools in law enforcement and public safety, offering rapid, high-tech solutions for surveillance, crime prevention, and emergency response. With advanced cameras and sensors, drones provide real-time aerial views to monitor large areas, track suspects, and manage crowds during events or protests. They are also used in disaster zones to locate survivors or assess damage without risking human lives.

Example:

In Gujarat, police use drones for surveillance during communal events to prevent unrest. In Andhra Pradesh, drones are employed to monitor forest areas, track illegal activities, and support anti-smuggling operations.



Law Enforcement & Public safety Surveillance



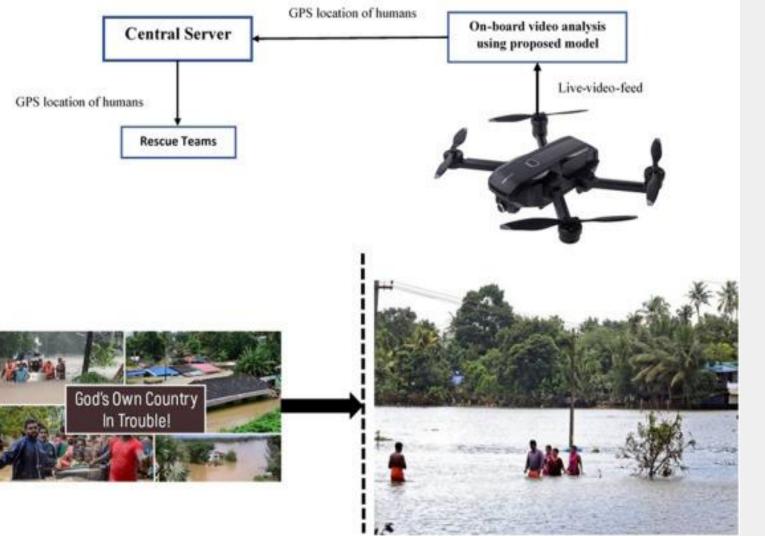
Traffic & Vehicle Surveillance

Traffic & Vehicle Surveillance

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Traffic and vehicle surveillance service using drones involves monitoring and managing road traffic, ensuring safety, and gathering real-time data for better decision-making. Here's how it works:

- Aerial Monitoring: Drones equipped with cameras and sensors provide a bird's-eye view of traffic flow, capturing detailed data.
- **Violation Detection**: They identify traffic rule violations like overspeeding, signal jumps, and lane violations.
- Accident Management: Drones quickly reach accident sites, providing real-time visuals for prompt response.
- **Traffic Analysis**: With AI integration, they analyze traffic patterns to reduce congestion and improve efficiency.



Search & Rescue Operation

Search & Rescue Operation

Imagine a life-saving tool that can fly over disaster-stricken areas, navigate through dense forests, and deliver critical supplies in the blink of an eye. That's exactly what drones bring to rescue and surveillance operations—a revolution in how we save lives and ensure safety.

When every second counts, drones become the ultimate first responders. Their ability to quickly deploy and provide an eagle-eye view of the situation makes them indispensable in emergencies.

Why Drones Are Game-Changers

- **Speed Like Never Before**: A drone can scout an area in minutes, a task that could take hours or days for ground teams.
- **Safety First**: Drones reduce risks for rescue teams by venturing into hazardous zones—be it a wildfire, chemical spill, or unstable building.
- A Toolbox in the Air: Modern drones are equipped with sensors, cameras, GPS, and even loudspeakers, making them versatile rescue assistants.

Advantages of Drones in Survey & Surveillance Services

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1.Increased Efficiency

 Drones can cover large areas in a fraction of the time it would take using traditional ground methods or manned aircraft, allowing faster data collection and analysis.

2.Cost-Effectiveness

 Drones reduce the need for expensive equipment, such as helicopters, and minimize the number of personnel required, lowering overall operational costs.

3.Access to Hard-to-Reach Areas

 Drones can easily reach areas that are difficult or dangerous for humans, like mountainous terrains, disaster zones, or densely populated urban areas, providing better coverage.

4. High-Resolution Data Collection

 Drones are equipped with advanced cameras, sensors, and LiDAR, ensuring high-quality, accurate data for mapping, monitoring, and inspections.

5. Real-Time Monitoring

• Drones provide live video feeds and data, enabling immediate assessment of a situation, making it easier for decision-makers to take timely action.

6. Safety

• Drones reduce the risk to human operators by performing tasks in hazardous environments, such as during natural disasters, industrial inspections, or traffic surveillance.

7. Flexibility & Versatility

 Drones can be equipped with a variety of sensors, cameras, and payloads, allowing them to be used for diverse applications such as environmental monitoring, traffic management, and infrastructure inspection.

8. Environmental Benefits

 Drones are energy-efficient and produce less carbon pollution compared to traditional methods like manned aircraft or ground vehicles, making them a more sustainable option for surveillance.

Future Of Drone Technology



The future of drone technology is promising, with advancements in AI, machine learning, and sensor technology. Ledo India is committed to staying at the cutting edge, continuously improving our services and offerings.



"Surveying the Future with Drone Innovation"

Ledo India's approach to enhancing survey and surveillance services through drones is transforming the industry. By embracing innovation, we are not only improving efficiency but also paving the way for future advancements in technology.



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