SMART DRONE SOLUTION

CUTTING-EDGE AERIAL OPERATIONS

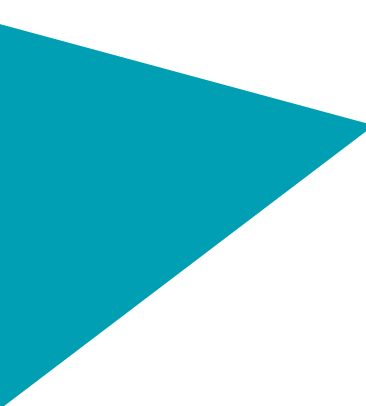Electric shock risk

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THE FUTURE OF SMART OPERATIONS

At Datwyler IT Infra, we believe the future of intelligent operations lies in automation, adaptability and fast, data-driven decisions. Our Smart Drone Solution enables organisations to monitor, respond and act with precision – whether in cities, remote infrastructure or high-risk environments.

Purpose-built for applications such as public safety, emergency response, traffic control, energy inspection and environmental monitoring, our solution adapts to the mission – not the other way around.

With real-time data processing, autonomous flight control and integrated AI capabilities, we transform aerial data into immediate, actionable insights. This helps our customers improve safety, reduce operational delays and optimise resource use. Datwyler takes care of the full operational scope, from system design to deployment. You get a reliable, ready-to-use solution that supports your aerial operations.

KEY FEATURES

REAL-TIMEDATA PROCESSING

ANALYSE AND ACT ON LIVE AERIAL DATA INSTANTLY

IMPROVED DATA SECURITY

ENCRYPTED DATA TRANSMISSION AND SAFE STORAGE

EDGE COMPUTING FASTER DECISIONS

FAST, LOCALISED DECISION-MAKING WITHOUT LATENCY

ADVANCED AI AND ANALYTICS INTEGRATION

SMARTER PREDICTIONS THROUGH INTELLIGENT DATA ANALYSIS

AUTONOMOUS OPERATIONS

AUTOMATED FLIGHTS WITH MINIMAL HUMAN INTERVENTION

MONITORING AND CONTROL

CENTRALISED PLATFORM FOR FULL SYSTEM OVERSIGHT

SECURE DRONE EDGE
FOR REAL-TIME MONITORING

Our Smart Drone Solution, combined with an intelligent single-rack outdoor data centre, offers a powerful processing system that enables real-time data capture, analysis and decision-making directly at the source, eliminating delays caused by data transmission.

Whether in emergency response, infrastructure inspection or urban planning, this solution allows faster reactions, localised insights and more sustainable operations even in areas with limited connectivity. Key elements of this system include:

- **High-resolution sensors**
- **Edge processing capabilities**
- **Secure connectivity and storage**

This unified platform ensures cities and organisations can monitor, respond and plan with greater accuracy, speed and efficiency.

INTEGRATED PLATFORMS

To deliver reliable, real-time aerial intelligence, we partner with leading technology providers. Our integrated solution combines the AI-driven analytics of Viso.ai with the flight automation and control capabilities of Drone Harmony. Together, these platforms enable end-to-end drone surveying and monitoring – from mission planning to data-driven decision-making.

SEAMLESS FLIGHT PLANNING

Instant object recognition

Predictive intelligence

Automated alerts and responses

Customisable AI models

SMARTER DRONE OPERATIONS

Fully automated flight planning

Real-time adaptive scheduling

Multi-drone coordination

TECHNOLOGY PARTNERS

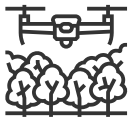dh viso.ai

TAILORED SOLUTIONS FOR INDUSTRY APPLICATIONS

Our smart drone system is designed to be flexible and adaptable, ensuring it can meet the unique demands of various industries. Whether it's public safety, infrastructure management or environmental monitoring, our solutions are customised to deliver maximum impact across different sectors.

Each industry presents unique challenges, and our smart drone system is designed to adapt to them. By customising drone applications and integrating them with powerful AI analytics and real-time data processing, we ensure that every operation is precise, efficient and delivers tangible results.

TRANSFORMING INDUSTRIES WITH SMART DRONE SOLUTION

Explore how intelligent drone technology is reshaping operations across sectors.

Real-world applications of Smart Drone Solution

Public safety & urban management

- Urban infrastructure monitoring
- Public safety and emergency response
- Traffic and mobility management
- Stadium event security and crowd management

Critical infrastructure & logistics

- Border and perimeter security
- Healthcare and emergency logistics
- Energy and utility inspections
- Maritime and port operations

Commercial & environmental monitoring

- Smart buildings and facilities
- Environmental and climate monitoring
- Asset and inventory management
- Precision agriculture

With real-time aerial intelligence, on-site edge processing and autonomous operation, our Smart Drone Solution is built to meet the demands of modern industries – safely, efficiently, and reliably.

ITinfra.datwyler.com

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