

Instant Awareness. Rapid Response. Crisis Overview.

Responding to emergencies in large or hazardous areas is becoming increasingly complex and time sensitive. Whether it's industrial plants, construction zones, power grids, or oil and gas sites, even a few minutes of delay can turn an incident into a major crisis. The challenge is greater in hard-to-reach areas with limited visibility that still demand fast action.

In such scenarios, response solutions must be swift, intelligent, and autonomous. Drones offer a decisive edge. They can be deployed instantly, capture real-time visuals, and deliver critical insights to speed up decisions, enhance responder safety, and reduce costs.

AI-Powered Autonomous Incident Response Drones

The Qualcomm Dragonwing™ Solution for Incident Response using Edge AI powered drones transforms how industrial and infrastructure teams respond to emergencies with real-time situational awareness. Built on the Dragonwing platform and supported by on-device Edge AI, drones launch instantly from smart docks with minimal manual input.

The solution manages the entire incident response cycle. It detects events, triggers alerts, plans missions, and executes autonomous flights. Data is processed locally, on-prem, for immediate insights, or in the cloud for city-scale operations, enabling advanced analytics and post-mission reporting. Emergency teams can monitor live feeds, review archived missions, and act faster with enhanced precision and safety.



Benefits

- **Faster Emergency Response:** Drones deploy instantly for rapid incident assessment, minimizing delays
- **Enhanced Safety:** Keeps responders out of danger with autonomous aerial monitoring in high-risk zones
- **Cost-effective and Scalable:** Covers large areas efficiently without relying on manual patrols or vehicles
- **Real-time Visibility:** Provides 360° situational awareness through live, high-resolution video feeds
- **AI-powered Reporting:** Automates post-incident documentation to support faster recovery
- **User-friendly Interface:** Enables easy drone control and mission management by emergency teams

Use Cases

- **Industrial:** Inspect machinery, storage, and safety zones without exposing personnel
- **Oil & Gas:** Monitor flare stacks, pipelines, and hazardous areas after alerts
- **Construction:** Assess active zones or structural damage remotely
- **Utilities:** Check storm damage and grid failures safely
- **Agriculture:** Survey crops, pests, and irrigation systems
- **Insurance:** Conduct rapid site surveys for damage assessment and claim validation

Powered by Qualcomm® technology

At the core of these solutions are our high-performance edge compute platforms and AI frameworks, built for security-critical environments:

- **Dragonwing Platform** for low-power, high-performance edge AI in high-security environments
- **Edge Impulse Platform:** Easily connects developers to tools for training, deploying, and managing custom AI models at the edge, accelerating solution development and reducing complexity
- **Qualcomm® Intelligent Video Suite** for real-time detection, facial recognition, and behavioural analytics
- **GenAI-powered Drone Command Center** allows users to query incidents, review footage, and manage flight operations using a conversational interface

Ready to Elevate Your Incident Response?

Equip your sites with AI-drones that respond instantly, see smarter, and work harder, autonomously.

Contact sales to get started