

Use Cases

Drone automation is transforming industries, with top use cases including emergency response, where drones deliver real-time data in critical situations; precision agriculture for monitoring crop health; infrastructure inspection for safer assessments; and delivery services enabling rapid, contactless logistics.

Our Priority

DFR is our foremost priority, fuelling our dedication to developing innovative solutions that boost rapid response capabilities and safety—designed by first responders, for first responders.

Our History

IDI, established in 2019, was created to revolutionise the way drone operations are automated across various industries. With a strong foundation in drone piloting, the company quickly moved from testing basic automation workflows to developing its flagship product, the IDIPLYER Nexus. This innovative "drone-in-a-box" solution integrates powerful software with robust hardware, enabling fully automated UAV operations. It has been adopted globally across sectors like energy, infrastructure, and construction for tasks such as monitoring and inspection.

What We Do

SERVICE

Our hardware and software are backed by comprehensive service, ensuring seamless integration and ongoing support for optimal performance.

TECHNOLOGY

IDI designs and manufactures drone automation hardware, working closely with like-minded UK integration partners.

SOFTWARE

IDI develops drone automation and pilot software, offering users data-driven solutions with analytics-rich post-mission reporting.



IDRONEINNOVATIONS

WWW.IDRONEINNOVATIONS.COM



IDI TECH is the Hardware Division of Idroneinnovations. Our team of engineers have created a suite of Automated Drone Deployment systems - developing technology for every use case. Our engineers work with industry experts to fine tune the hardware to their needs.



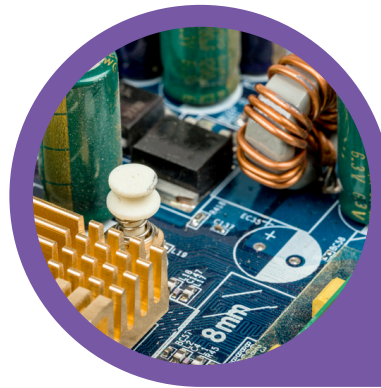
MADE IN UK

IDI Docks



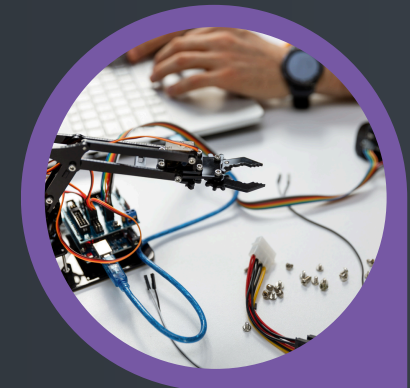
IDI Docks is the name we use in the development of our Automated Drone Deployment Systems. The core technology can be adapted to integrate into various third party applications e.g. Solar Towers. IDI Tech's Automated Drone Deployment Systems (ADDS) offer a range of innovative solutions tailored for diverse operational needs. The Ground-Based ADDS is lightweight, relocatable, and perfect for rapid deployments. The Off-Grid ADDS Tower, a heavy-duty, trailer-mounted system, excels in remote, off-grid environments. The CNI ADDS Tower is designed for high-security applications, being vandal-proof and deployable. For mobile operations, the Vehicle-Mounted ADDS can be integrated into pickup trucks and off-road vehicles, ensuring flexibility and quick response.

IDI Compute



IDI Compute is the dept within IDI Tech where prototypes and designs are made for the Hardware Control Systems including AI. IDI's Compute Team specializes in designing custom computing hardware tailored for advanced applications. They create Custom Single Board Computers specifically for ADS controls, ensuring optimal performance and reliability. Their Custom Control Boards are engineered for IDI's Uninterruptible Power Supply systems, providing seamless power management. Additionally, the team designs Custom USB Switching Devices for efficient Dock-to-Dock operations and develops Custom Compute Modules for AI-driven internal pre-flight inspections, enhancing automation and precision in critical systems.

IDI Control



Linked closely with IDI Compute, IDI Control develops the Hardware devices powered by the compute by using robotics and linear motion to control the position and functions of Drones and Devices. IDI's Control Team expertly integrates custom compute devices to power and control key operational systems. They manage Robotic Battery Swapping, enabling efficient, automated drone recharging. The team handles Linear Drone Positioning, ensuring precise and reliable drone movements. They also utilize Camera AI Detection for real-time monitoring and decision-making. Local sensors are incorporated to gather critical environmental data, and Third-Party Hardware is seamlessly integrated, allowing for versatile, multi-platform compatibility across various applications.