

Persistent Protection for Complex Security Challenges



Modern defence operations demand more than individual systems, they require integrated, mission-ready architectures capable of providing persistent awareness and decisive action across air, land, sea, space, and cyber domains.

EDGE's integrated defence ecosystems are scalable and adaptable. They deliver measurable advantage in complex operations while supporting critical infrastructure protection, strengthening national security, operational resilience, and mission effectiveness.

[HT-100](#), [BORDERSHIELD](#), and [SKYSHIELD](#) exemplify how airborne and land-based capabilities can be integrated within this ecosystem to provide persistent situational awareness, rapid response, and coordinated operational control, along with other platforms and technologies as needed to meet specific operational requirements.

HT-100: Mission-proven unmanned ISR platform

Mission-proven and rapidly deployable, the HT-100 is a long-range unmanned helicopter that extends ISR coverage across remote and hard-to-reach areas where limited infrastructure and long distances challenge conventional manned operations.

With an industrial-grade turbine engine and a unique intermeshing-rotor system, the HT-100 delivers up to six hours of endurance, enabling sustained ISR coverage in remote

areas.



Designed with a modular architecture, the HT-100 offers exceptional mission flexibility. Payloads can be tailored to specific operational requirements, permitting rapid transitions between missions such as border patrol, maritime surveillance, disaster response, and internal security support. This force-multiplying capability is particularly valuable for regional forces seeking to maximise operational output from limited resources.

The system's optimal price-performance per flight hour, combined with significantly lower operating costs compared to manned helicopters, makes it a cost-effective solution for expanding ISR coverage while reducing personnel risk and training demands.

Combining endurance, operational flexibility, and cost efficiency with proven performance and localised support, the HT-100 strengthens situational awareness while reserving manned assets for when they are needed most.

BORDERSHIELD: Integrated border surveillance system

BORDERSHIELD is an advanced autonomous border surveillance system that provides integrated persistent awareness and security across complex land and coastal environments.

Combining intelligent sensors with a command-and-control system advanced artificial intelligence, BORDERSHIELD enables continuous monitoring of large and often remote areas. Persistent coverage supports early target detection and identification of potential threats, allowing security forces to respond rapidly using autonomous platforms such as unmanned aerial vehicles (UAVs) and unmanned ground vehicles (UGVs).



Its unified system architecture consolidates information from diverse sources into a single operational picture for enhanced decision-making.

It supports a wide range of missions, including border security, counter-smuggling operations, infrastructure protection, and environmental monitoring. Its flexible configuration enables deployment across coastlines, deserts, mountains, and other challenging terrains.

By integrating sensors, data, and command systems into a single operational architecture, BORDERSHIELD strengthens border monitoring capabilities, enabling authorities to detect, assess, and respond to threats with greater speed and precision.

SKYSHIELD-QD: Mobile Counter-UAS Protection for Dynamic Airspace Control

The SKYSHIELD-QD delivers a highly mobile, rapidly deployable counter-UAS (C-UAS) capability tailored for securing controlled national airspace against unauthorised or hostile drone activity. Engineered as a fully self-contained system installed on a tactical vehicle, it enables operators to project protection precisely where and when it is needed without

reliance on fixed infrastructure.

Combining detection, identification, and electronic attack functions, SKYSHIELD-QD integrates radar, electro-optic/infrared (EO/IR) sensors, and direction finding to build a real-time operational picture. This is paired with advanced RF jamming and GNSS spoofing across a wide 400–6000 MHz bandwidth, allowing the system to disrupt command-and-control links while denying navigation signals. The result is a layered effect that forces hostile drones to lose control, abort missions, or exit protected zones.



With output power up to 350W and an effective range of up to 10 km, the system provides

robust area protection while maintaining precise control through configurable, software-defined interfaces. Its ability to selectively activate frequency bands and dynamically manage power ensures both operational flexibility and electromagnetic discipline.

Aligned with the need for agile, integrated defence solutions, SKYSHIELD-QD enhances situational awareness and enables rapid, decisive response, extending persistent protection into dynamic and high-risk environments.

Integrated multi-domain advantage

By combining multi-domain capabilities, EDGE strengthens sovereign airspace control and surveillance, providing enduring security and rapid response from detection to decisive action.

This layered ISR approach improves situational awareness, accelerates decision-making, and allows forces to prioritise threats, optimise resource deployment, and respond faster across complex operational environments.