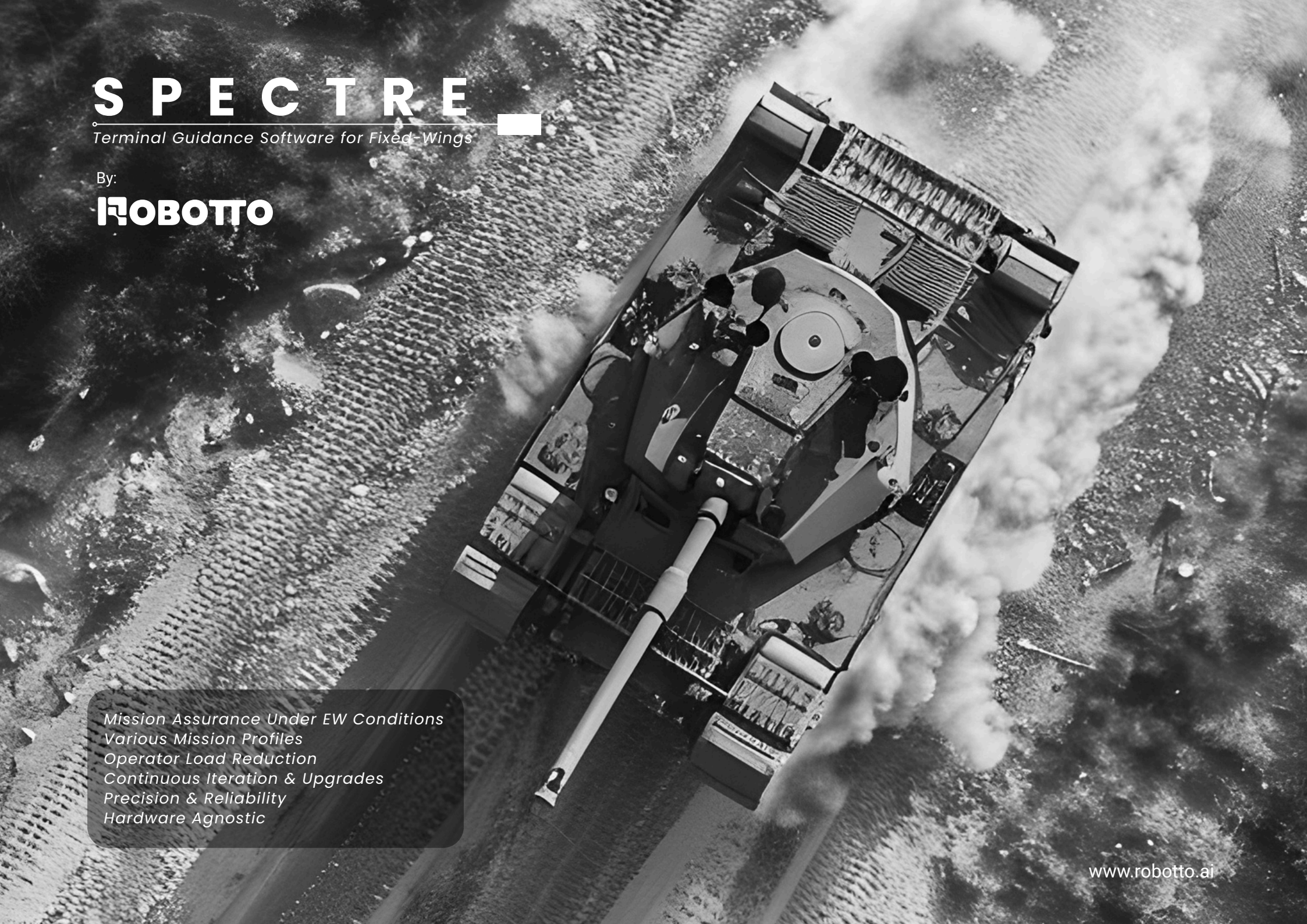
SPECTRE

Terminal Guidance Software for Fixed-Wings

By:

ROBOTTO



Mission Assurance Under EW Conditions
Various Mission Profiles
Operator Load Reduction
Continuous Iteration & Upgrades
Precision & Reliability
Hardware Agnostic

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SPECTRE

Terminal Guidance Software for Fixed-Wing

Spectre is an advanced drone software known for its versatility and performance, enhancing efficiency, safety, and precision. Its modular framework allows for quick adaptation to new mission profiles, ensuring scalability without technological limitations. Designed for both novice and experienced operators, Spectre is equipped with intuitive interfaces that simplify mission planning and execution. This ensures that operators can focus on strategic objectives rather than technical complexities. The software's adaptability extends to various environmental conditions, making it a reliable choice for diverse operational settings.

With its robust security features, Spectre safeguards mission data, maintaining confidentiality and integrity even in contested environments. As technology evolves, Spectre remains at the forefront, consistently integrating cutting-edge innovations to meet the demands of modern warfare and surveillance.

1

Preparation

Upon request, the FPV operator prepares the drone powered by AeroDynamics' strike software and launches the platform to get a visual on the target.

2

Engagement

Drone is flown manually or autonomously to the area in this phase, and is guided towards the target by the pilot.

3

Cruise Control

Fly in a set direction with cruise control in incognito mode, allowing your drone to fly behind enemy lines, even if jamming is present.

4

Activation

When the FPV operator identifies the correct target, they puts the target in the center and selects this as a target. The target will be tracked by the onboard software and the handover is complete.

KEY FEATURES

GNSS Denied

Spectre was crafted to operate without reliance on traditional GPS navigation methods. Utilising vision-based navigation, the software continues along the set flight path, even without a connection to the controller.

Target Selection

Activate autonomous vision-based navigation with cruise control for optimal flight. Enable real-time adjustments for precise missions, even in challenging conditions. Spectre's target selection allows operators to concentrate on strategy.

Target Re-Selection

Selecting targets, even with Full HD, can be difficult. With Robotto's software, users are able to reselect targets during activated terminal guidance missions, even when cruise control is activated, altering the hardware's flight path for successful missions every time.

Air-to-Ground Terminal Navigation

With terminal navigation on, the onboard computer expertly controls navigation without GPS, adjusting pitch and altitude for a smooth experience during loitering munition missions.

Optical & Window Zoom

Improves video quality with 2X optical zoom, enabling clear target visibility up to 2 KM. Supports confident target identification during autonomous flights and minimises manual control distractions & enhances target selection for safer and more effective operations.

Static Tracking

Choose and monitor fixed targets during terminal activation missions or when cruise control is activated. This enables autonomous navigation in GNSS-areas, guiding the mission toward a chosen static destination.

Cruise Control

Drones can function independently without a control unit, maintaining flight while radio silent. With cruise control, they operate semi-autonomously, adjusting altitude, direction, and speed using vision-based navigation, and are immune to jamming and spoofing.

Automatic Target Recognition (Planned)

Choose from user-defined targets and enable AI detection at the edge level. Users stay in the loop by selecting and approving detections prior to mission launch.

DON'T TAKE IT FROM US

"Robotto is the leading product on the Ukrainian market in its category. Thanks to its high standards of quality, innovative approach to problem-solving, and reliable support, Robotto consistently delivers stable performance and effectiveness that exceeds expectations."

Defence Customer, Ukraine

BENEFITS

Cost Effective

A low-cost solution that integrates seamlessly into a multilayered defense for both forward and main operating bases.

Focus on what's important

With Spectre in control of navigation, transfer operator focus from piloting to target recognition and selection.

Easy to Deploy

Extract, expand, and launch. Spectre is easy to deploy, requires little to no training.

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