

DRONE AMPLIFIED IGNIS ALTA X VERSION



Fire Ignition Management with Drones

IGNIS
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IGNIS AERIAL IGNITION SYSTEM

IGNIS is a complete payload system that tightly integrates to drone platforms to enable safe, effective, and affordable aerial ignition for back burns and prescribed fires. It carries a payload of ping-pong size chemical spheres that can be dropped precisely where you want them using our flight and ignition App that was designed specifically for firefighters.

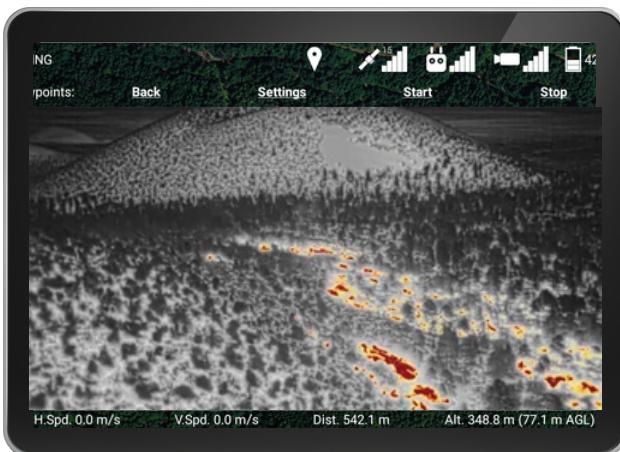
IGNIS CAPABILITIES

- Uses standard Dragon Egg ignition spheres and full strength antifreeze.
- Custom integration with Freefly ALTA X drone and Workswell Wiris Pro thermal camera.
- Recommended load of 450 spheres, adjustable drop rate of 10 - 120 spheres per minute.
- Fast-reload: single operator reload in 2-5 minutes.
- Lightweight, durable construction.
- Delivered with robust custom transport cases for IGNIS, camera, batteries, and Alta X.
- Onboard sensors monitor system to ensure safe and reliable operation.
- Remote emergency release system.



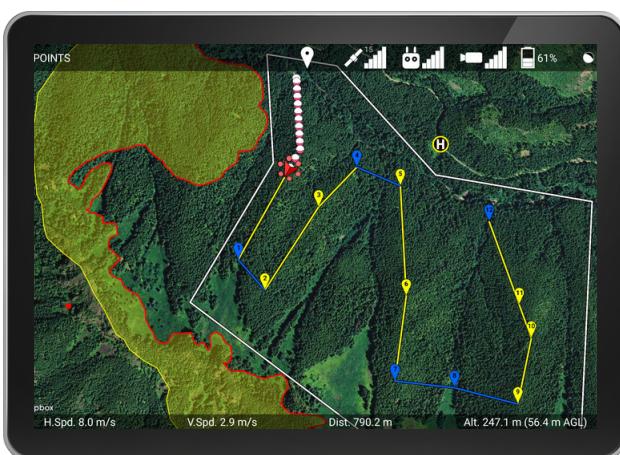
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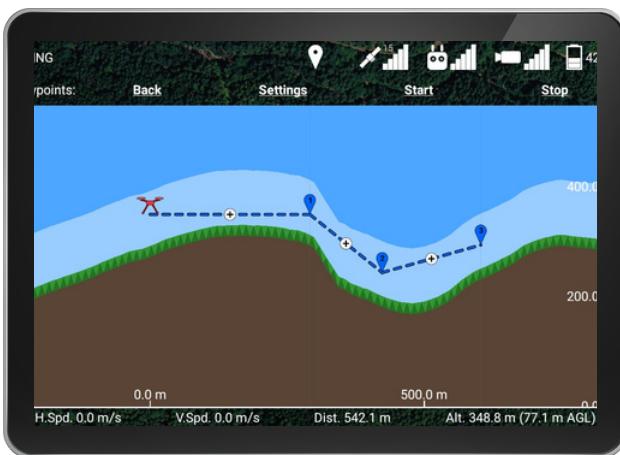
IGNIS FLIGHT APP

Drone Amplified's custom IGNIS flight app allows the operator to control the IGNIS systems and ALTA X flight operations from the Android tablet ground control station.



IGNIS APP CAPABILITIES

- Designed for firefighters.
- Runs on the Herelink Blue and integrated tablet for larger viewing and easy control.
- Fly, monitor, and control the drone and Ignis.
- Create a geofence to ensure IGNIS will not drop outside the burn area.
- Add airspace and terrain alerts to maintain safety.
- Autonomously ignite burn lines with waypoint missions.
- Configure ignition spacing, number of ignition spheres, mission duration, altitude, and more.
- Conduct missions offline with downloaded satellite imagery and elevation maps.
- Import burn plans and maps with geo-referenced PDFs, KMZs, and other formats.
- Save flight logs and drop locations to a spreadsheet.



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INTEGRATED ALTA X PARAMETERS

Flight time up to
30 minutes



Workswell Wiris Pro Camera:

- Fully integrated with Gremsy gimbal.
- Fully integrated App control of gimbal and thermal camera.
- Radiometric thermal camera 640 x 512 pixels at 30Hz.
- Full HD visual camera with a 10x optical zoom capability.
- Temperature Sensitivity: 0.050C.
- Accuracy: $\pm 2\%$ or $\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$).
- Spectral Range: 7.5 – 13.5 μm .

Freefly ALTA X

- Weight with batteries and camera, no IGNIS: 20.5kg (45.2lbs).
- Weight with batteries, camera, and fully loaded IGNIS: 24.58kg (54.2lbs).

IGNIS SYSTEM:

- Loaded Weight with 450 ignition spheres and antifreeze: 4.2kg (9.3lbs).
- Empty Weight: 1.83kg (4.0lbs).

Hours of operation	Spheres to be dropped per acre				
	1	2	3	5	10
1	700 acres	675 acres	650 acres	600 acres	250 acres
4	1300 acres	2200 acres	2100 acres	1900 acres	800 acres
8	4500 acres	4300 acres	4200 acres	3800 acres	1600 acres





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IGNIS AERIAL IGNITION ALTA-X PACKAGE

Drone Amplified provides the complete UAS aerial ignition ecosystem, combining Freefly's ALTA X, Wiris Pro Thermal camera, and Drone Amplified IGNIS Aerial Ignition System. The ALTA X Ignition package includes everything you need to conduct PSD operations on prescribed fires as well as wildfire incidents.

ALTA X AERIAL IGNITION PACKAGE INCLUDES:

- IGNIS 2 ignition system with transport case and parts kit.
- Drone Amplified Android app and tablet for safe and efficient drone ignition operations.
- Freefly ALTA X drone with custom landing gear and transport case, and integrations for camera and IGNIS ignition system.
- Herelink Blue radio controller and tablet holder.
- Spare parts to keep your operation running, including 1 full set of props, small spare parts.
- Near continuous operations with 4 sets of batteries, 2 chargers, and 2 custom battery transport cases.
- Top of the line ISR capabilities with Workswell Wiris Pro thermal/visual camera, gimbal, and transport case.
- One day of training at customer site.



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