



IGNIS II Data Sheet

Extend your reach across the burn area.
Quickly respond to changing conditions.
Keep your crew out of harm's way.

► **Unified Systems:** IGNIS, flight software, and thermal payloads integrated on a heavy-lift, ruggedized aircraft.

► **Total Readiness:** The complete system secured in robust cases, built rugged, for rapid deployment.

► **Intelligent Failsafe:** Onboard sensors detect ignition sphere jams and trigger e-release, safeguarding the aircraft and operation.

IGNIS II IGNITION SYSTEM

Max Payload	450 spheres
Drop Rate	120 per minute
Reload Time	2-5 minutes
Uses standard Dragon Egg ignition spheres & full strength antifreeze.	

IGNIS II PHYSICAL PARAMETERS

Weight (450 spheres & antifreeze)	4.2kg (9.3lbs)
Empty Weight	1.83kg (4.0lbs)
Payload Rail Width	149-155mm
Payload Rail Diameter	12mm

INTEGRATED UAS PARAMETERS

Empty Weight	11.5kg (25.35lbs)
Weight (batteries, camera, no IGNIS)	20.5kg (45.2lbs)
Weight (batteries, camera, IGNIS w/ spheres)	24.94kg (54.99lbs)
Flight Time	22-30 minutes
Controlled by NDAA Controller with tablet interface for Drone Amplified's Flight App	

EO / IR CAMERA

Radiometric Thermal Camera	640 × 512 px at 30Hz
Visual Camera	Full HD 20x optical zoom
Temp Sensitivity	0.050C; Accuracy: ±2 % or ±2 °C (±3.6 °F)
Spectral Range	8 – 14 μm
Fully integrated App control of Gremsy gimbal & thermal camera. See https://gremsy.com/vio-specs for details.	

ACREAGE COVERAGE

Area coverage assuming typical conditions and loads of 450 ignition spheres

Hours of operation	Spheres to be dropped per acre				
	1	2	3	4	5
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



DRONE AMPLIFIED