

MinO is an advanced version of the OBSERVER System, where the “information at the fingertip” capability has been retained, but the size has been significantly reduced. With a wingspan of only 1.4 metres and a mass of less than 11kgs, MinO represents a major advance in UAV capability. Like its big brother, MinO is catapult launched and parachute recovered. However, the considerable reduction in both size and weight coupled with the mechanical simplicity and robustness provided by the gust insensitive technology makes MinO the outstanding performer in its class



A Unique Solution

- Whole systems approach
- Readily deployable
- Intuitive interface
- Real-time data link
- Autonomous and simple operation
- Easily supportable
- Automatic launch and recovery

MinO System Roles

MinO carries daylight TV or thermal imaging sensors to provide 24-hour coverage of a commander’s Area of Interest. It may be used for:

- Surveillance
- Reconnaissance, including Battle Damage Assessment (BDA)
- Target acquisition (in support of Battle Group operations)

MinO System Concept

Like OBSERVER, MinO utilises the same system concept whereby the operator controls the path of the sensor footprint rather than controlling the flight path of the air vehicle. A sensor incorporating either daylight television or TI cameras has replaced the traditional complex sensor turret. This semi-strapped-down sensor array is pointed by the air vehicle and directed by the operator at an intuitive touch-screen control console with digital map and imagery displays side-by-side. A touch on either the imagery or tactical map display is all that is required to initiate a search routine, close on a target, or closely observe a key point.

- Un-cooled Miniature Thermal Imaging payload
- Man portable vehicle
- Hand or short rail launched
- Parachute/Airbag recovery
- Robust - inverted landing
- Large diameter propeller for Low Noise
- ‘Dumb’ Wings
- Minimum control surface count
- Gust Insensitive Airframe
- Single Unit FCS and Avionics



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EASA / CAA Approval References EASA 21J.145; UK. 21G.2382; AD/2015/05;
Part-145 Approval Reference UK.145.00377

Registration to ISO9001:2000; AS/EN ISO 9100B; plus TickIT, assessed in accordance with the requirements of AS 9104 MoD (UK) Design Approval under DAOS

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MinO System Characteristics

Wing Span	1.4m
Wing Area	0.548m²
Air Vehicle Mass	11 kg
Endurance	1+ hrs
Launch	Catapult or Hand
Recovery	Parachute
Optimum operating height	300 m
V _{stall}	20m/s
V _{cruise}	30m/s
V _{max}	45m/s (ISA+15,1000m)

For more information, please contact:

Gordon Dickman, Cranfield Aerospace Limited
Cranfield, Bedford, MK43 0AL, United Kingdom
Tel: +44 (0) 1234 754254 | Fax: +44 (0) 1234 752375
Email: g.dickman@cranfieldaerospace.com

www.cranfieldaerospace.com



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