

LONGREACH70

Modular TUAS Enabling Deep FIND

This groundbreaking deep FIND system is centred on a rapidly deployable rotary wing TUAS to deliver Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR) capability.

Proven Aerial Designator

Longreach70 is a fully integrated laser subsystem - evolved since first proven with British Army on Salisbury Plain Training Area in November 2023. Range of 5-8 inch Class IV laser gimbals now integrated providing designation at safe stand-off distance beyond enemy C-UAS. Platform and gimbal demonstrated to operate in GNSS denied environment.

Provides faster and safer target designation than traditional methods.

- Removes need for hand held designator and associated risk to life
- Reduces reliance on close air support
- Stable, static loiter for precision targeting and fixed laser safety arc

This agile long range TUAS can carry a range of intelligence and reconnaissance payloads which support the long-range targeting of enemy activity, during the day and at night. With low maintenance requirements and a small logistical footprint, the Longreach70 system can be easily transported in a range of current in-service vehicles and is rapidly deployable to enable vital support of a range of tactical operations.

The system packs down into two Peli cases, requires no specialist equipment for launch and recovery, operates in challenging wind conditions, and is configured with a proven GPS hardened system for operations in RF contested environments.

Platform Specifications

Maximum Take-off Weight (MTOW)	35Kg
Flight Endurance at MTOW	8 Hours
Top Speed	120km/h
Payload Capacity	10 Kg
Propulsion	UK Sovereign multi-fuel 70cc engine
Fuel	JP8/JP5/JetA1
Launch/Recovery	VTOL Autonomous take-off and landing [no supporting equipment required]
Link Range	100+ km with Tracking Antenna
Wind	Sustained 60km/h; gusting 110km/h
Hardening	CRPA Operationally proven

Key Features

- Operates in sustained winds of 60km/h; gusts up to 110km/h
- Small logistical footprint
- Rapid organic deployment
- Modular system enabling rapid evolution
- No additional equipment required for launch or recovery
- C2 and payload agnostic – enables integration of GFX equipment
- Proven in RF contested environment
- Established authorisations to operate on MoD ranges
- Existing CAA Safety Case for BVLOS operations
- SATCOM integrated
- Precision landing
- Low resource training infrastructure
- Proven laser target designation capability
- Cost effective system
- Civil (214-53-EU) and Military (Land Class C & Ship) Radio Equipment Directive
- Autopilot aviation standards compliant [DO178C, DO254, DO160]

Designed & developed to open architecture and open standards, this modular multi-role system can rapidly evolve to carry a variety of payloads.

- Multi-role
- Resilient
- Proven



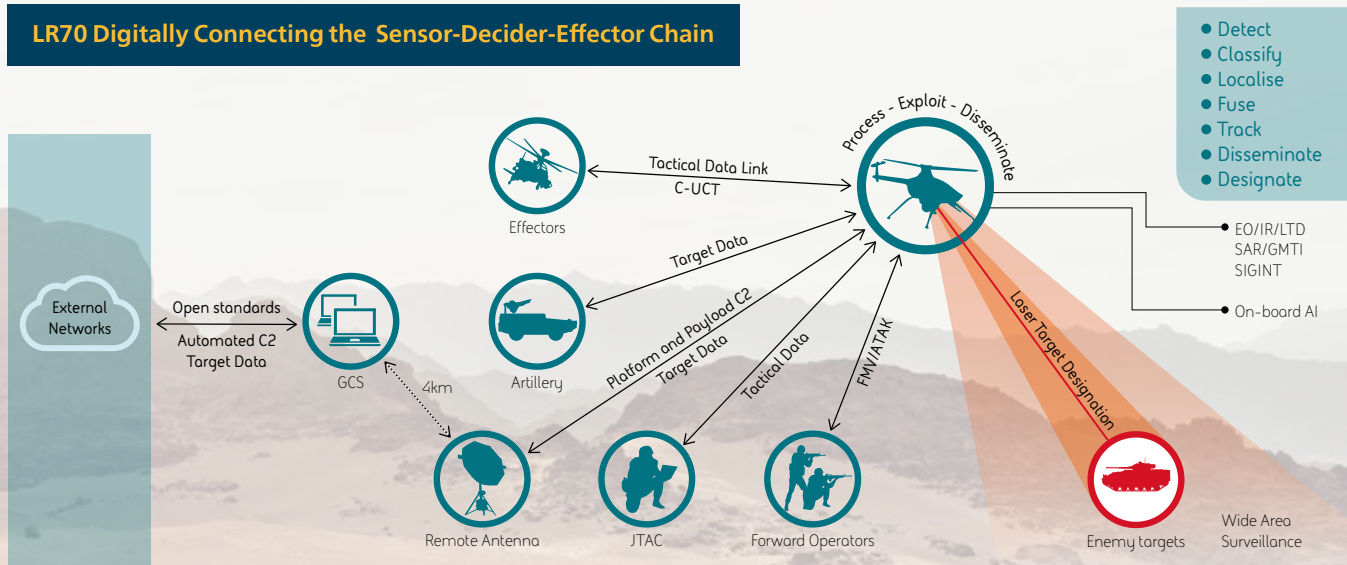
Delivering Intelligence At Pace To Empower Decision Makers

Longreach70 is an ISTAR asset that can collect, process and disseminate high quality imagery intelligence as part of a layered and integrated ISTAR system of systems. Performing long-range wide area surveillance, Longreach70 can detect target movement using Ground Moving Target Indicator (GMTI) functionality whilst providing high quality images from stand-off beyond the reach of enemy C-UAS. Operating in day or night, Longreach70 enables both short-range and long-range precision strike using its laser subsystem for range-finding, target marking and target designation.

Quicker decision making in the modern battlefield, using the Sensor-Decider-Effector chain, will enable our forces and those of our allies to become more lethal. Longreach70 provides the forward sensing [FIND] and aerial designation capability - digitally connecting the chain of command to rapidly select and dispatch the appropriate effector to engage the enemy as far forward as possible, whilst reducing the need for crewed support and reducing risk to our operators. Onboard edge processing reduces the amount of data disseminated across the connected network for those decision makers.

Optional Payloads	
EO/IR	
LTD	
SIGINT	
SAR/GMTI	
Comms Rebroadcast	
CEMA	CEMA
CBRN	
Hyperspectral Imaging	
LIDAR	
Ordnance Detection	
Gravity Release Mechanism MIL-STD 859I	
APNT	

LR70 Digitally Connecting the Sensor-Decider-Effector Chain



Contact Details:

BAE Systems, Grange Road, Christchurch, Dorset, BH23 4JE, UK

E: learn@baesystems.com | W: baesystems.com/longreach

[linkedin.com/company/baesystemsdigital](https://www.linkedin.com/company/baesystemsdigital)

twitter.com/BAES_digital

