

THE BROADSWORD XL UAS



GRIFFON
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BROADSWORD XL

SMART. LIGHTWEIGHT. EASILY DEPLOYED. COST EFFECTIVE.

The BroadSword XL UAS is a stretched version of the MQM-171 aircraft currently in production for the U.S. Army. The BroadSword XL version has a longer fuselage and increased wing span over the base target airframe. The aircraft is designed as a low observable, inexpensive airframe for use as an observation platform or a test/development vehicle for sensors and new propulsion systems. BroadSword XL is a large capable aircraft ideal for emerging sensor or payload development missions.

Low Observability. The aircraft's shape and materials yield low radar observability characteristics. Multiple payload bays are available for integration of specialized payloads, external pylons, or the standard suite of EO/IR sensors. The BroadSword XL will be used as a reliable airframe to support rapid development of emerging sensor/UAV payloads.

Tough Construction. XL's rugged composite airframe is designed for harsh field conditions and ease of repair. An existing production line providing a reliable airframe supply is unique in the UAV industry. The base BroadSword airframe is used without landing gear, but for applications with payloads the landing gear version is recommended. Readily available, off-the-shelf flight control and system components are extensively used. Mid-aircraft payload bays can be configured interchangeably as fuel or sensor bays thereby exchanging mission endurance for payload capacity. Wet fuel bays in the wings can be employed if necessary for greater endurance missions.

Versatile Control System. The standard Ground Control Station (GCS) consists of one or more laptop computers to display the AV health and status and mission execution. The telemetry suitcase contains the AV and sensor transceivers and the interfaces to the laptops. Data links to drive the sensor displays are available through the telemetry suitcase. The vehicle is compatible with a variety of airborne and ground control systems.

Flexible Launch/Recovery. The target version of the BroadSword XL is flown from a launcher and utilizes a belly recovery landing. For the XL version, landing gear/unimproved runway operations is considered the standard launch/recovery operating mode.



Wing Span	22.5 ft 6.86 m
Length	14.8 ft 4.51 m
Payload	100-120 lbs 45-54 kg
GTOW	550 lbs 249 kg
Ceiling	14,000 ft 4.3 km
Max Speed	110 knts 202 kph
Cruise Speed	75-90 knts 138-166 kph
Max Endurance	4-6 hrs

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