

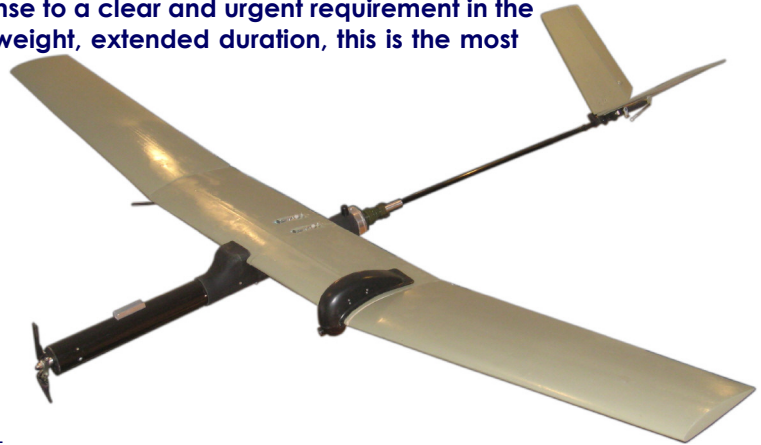
man portable unmanned airborne vehicles

MIDGE

Midge has been developed and produced in response to a clear and urgent requirement in the Defence & Security markets. Stable, extremely lightweight, extended duration, this is the most economically viable UAV around.

Hand launched, easily portable by 1 person, Midge has been designed to deploy anywhere at anytime.

Wings detach to fit in carrying tube.



ground control station

- ⊕ Waterproof case containing digital video receiver (L band / S Band / 256 AES encrypted / diversity) and aircraft comms modem
- ⊕ Charging systems
12 - 36 v input
- ⊕ No tools required
- ⊕ Total weight 2.5 kg
- ⊕ Antennas
- ⊕ Back pack
- ⊕ Charging time 1 hour
- ⊕ Ruggedised sunlight viewable touch screen tablet PC



specification

Weight	1.3 kg
Wing Span	1.8 m
Length	95 cm
Height	10 cm
Ceiling	3,000 m
Maximum Speed	85 km/h
Loiter Speed	40 km/h
Operating Height	60 - 365 m
Range	10 km
Flight Duration	50 mins

features

- ▶ Range up to 10 km
- ▶ Endurance 50 minutes, can be extended
- ▶ Real time analogue video downlink. Encrypted and digital links available.
- ▶ Autopilot System provides fully autonomous flight with in flight programming via click and drag on map overlay
- ▶ Rapid deployment
- ▶ All equipment can be carried by one person
- ▶ Set up time is four minutes
- ▶ Electric flight - no fuel required
- ▶ Aircraft can be charged in 1 hour off a DC power source

Options:

- ▶ Hunter Killer & On Point Targetting

convoy protection

Running one copy of the Virtual Cockpit, users can easily operate multiple UAVs from the same ground station, through one datalink. Useful for Convoy Protection and Target Prosecution.

The Commbox ground station now includes a GPS receiver which allows the home position to move with the convoy while UAVs follow.

Lightweight & Portable Field Case



autopilot

- ⊕ Convoy protection
- ⊕ Click drag way points and loiter
- ⊕ Fully autonomous take off, landing and navigation
- ⊕ Man-in-the-loop capability
- ⊕ In-flight programming
- ⊕ Single person operation

payload configuration

- ⊕ Gimbal Stabilised, 470 TVL 360° pan x 90° tilt

Further Options:

- ⊕ TI camera 30 micron 320 x 240
- ⊕ NextVision Digital PTZ-D
- ⊕ NextVision Gyro Stabilised MicroCam -D
- ⊕ Onboard MPEG 2 recorder