

YABHON-SMART EYE



Overview

SMART EYE is a Medium Altitude Long Endurance (MALE) UAV, designed and manufactured by ADCOM Systems for strategic missions including:

- Near real time (NRT) combat assessment
- Battle damage assessment (BDA)
- Intelligence preparation of the battlefield
- Special operations, reconnaissance operations and humanitarian aid
- Border surveillance and communications relay

The ultra-long endurance of the SMART EYE comes from its glider-like, high aspect ratio wings. It can carry two gimbaled camera platforms.

Specifications

• Wingspan	21 m	68.9 ft
• Length	7 m	22.97 ft
• Height	2 m	6.56 ft
• Empty weight	450 kg	992 lb
• Max. take-off weight	1000 kg	2 205 lb
• Payload weight	70-550 kg	154-1212 lb
• Fuel tank capacity	900 lt	198 gallon
• Power	80/100/115 hp	

Features

- Full autonomous operation with advanced FCU system
- High glide ratio 30:1
- Mission pre-planning capability, online mission profile update and recording
- Wide range of payload sensors including IR, thermal imager LDRF, and EO sensors
- Retractable, steerable nose wheel for optimal operation

Flight Performance

• Stall speed	55 Km/h	[15 m/s]	30 kt
• Cruise speed	65-130 km/h	[18-36 m/s]	35-70 kt
• Maximum speed	222 Km/h	[62m/s]	120 kt
• Endurance	120 hrs		
• Ceiling	7300 m		24,000 ft

Payload

- Capable of carrying two gyro-stabilized platforms
- 4 PODs located under wings with 100kg weight capability each
- SAR and sonar terrain avoidance



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