

Condor - Medium Range UAV



Condor is a medium range unmanned aerial vehicle for civil applications in remote areas. The air frame is designed using latest design/simulation software. Non-metallic composite materials have been used for the fabrication of the air frame for high strength to weight ratio.

MUAV is operated from the Ground Communication Station (GCS). Condor is a versatile UAV system for Environmental Monitoring, Coastal & Ocean Observations, Wild Life Tracking & Monitoring, Forestry & Agriculture, Inspection & Monitoring and Aerial Survey. It can carry various payloads for civil applications.

KEY FEATURES

- Operational range 200+ km
- 8~10 hrs endurance
- Maximum ceiling of 16,000 ft
- Fully autonomous operation with auto navigation
- Pre-planned survey capability with run time survey alteration included
- Auto Take-off and Computer assisted internal landing



SYSTEM SPECIFICATIONS

Specifications:

Wing Span:	8.0 m	26.0 ft
Length:	6.0 m	19.6 ft
Max Weight		
Take-off:	220.0 kg	485.0 lbs
Payload:	35.0 kg	77.0 lbs
Fuel Capacity:	95.0 liter	

Flight Performance:

Max Speed:	180.0 km/h	100.0 kt
Cruise Speed:	120.0 km/h	65.0 kt
Ceiling:	5,000 m	16,000 ft
Endurance:	8~10 hrs	
Range:	200+ km	

Applications:

- Environmental Monitoring
 - Air Quality Monitoring*
 - Fire Emission & Plume Measurements*
- Coastal - Ocean Observations
 - Coastal Life Monitoring*
 - Erosion*
 - Mangrove Eco Systems Monitoring*
- Wild Life Tracking/Monitoring
 - Anti-Poaching Monitoring*
- Forestry/Agriculture
 - Fire Damage Assessment*
 - Monitoring of Logging Operations*
 - Invasive Plant Assessment*
- Aerial Survey
 - Terrain Mapping*
 - Oil/Gas/Mineral Exploration*
 - Crop Monitoring*
 - Remote Area Survey*
- Inspection & Monitoring
 - Security Monitoring*
 - Narcotics Monitoring & Control*
 - Oil & Gas Pipeline Inspection*
 - Power Line Inspection*
 - Oil & Gas Field/Rig Monitoring*
 - Oil Spill Monitoring*
 - Boarder Area Surveillance*
 - Natural Disaster Assessment*