



Man-Portable Small UAV system

SCANNER





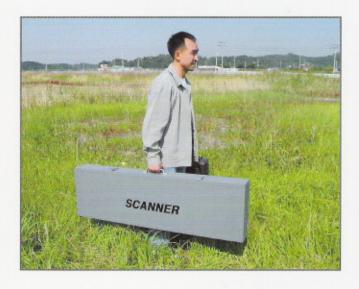
Man-Portable Small UAV system

The SCANNER system is a compact and portable Unmanned Aerial Vehicle (UAV) designed for both military and non-military short range mission, typically within 5Km range. Hand-carried, quickly assembled, hand-launched, and operated by two-men crew, the SCANNER offers a low-cost but very effective means of "Over-the-Hill" and "Eye In The Sky" reconnaissance and surveillance capability.

Most UAV's currently in-operation are expensive and meant for a medium or long range mission that requires substantial crew and logistics support, while a handy, low cost for a short-range operation is increasingly sought. The SCANNER system is the solution for such an increasing demand by offering a cost effective, minimal mission and control equipment, as well as minimal crew and logistics support.

The SCANNER system consists of the airborne unit and the ground control unit. The airborne unit includes a small video camera and avionics such as a GPS (Global Positioning System) receiver, and the ground operation unit includes a monitor which provides continuous real-time video overlaid with flight information for the ground crew to operate the vehicle. The airframe is powered by a small electric motor sustaining a minimum of one hour airborne





duration. Owing to the use of an electric motor based power plant, the system provides a superior quality video image free from vibration and noise. The ground operation unit can be hand-carried or mounted to a ground mobile, which can be linked with a GIS (Geographical Information System) for easy identification of a target coordinate or a

location. The system includes a two-men crew; one for piloting the vehicle while the other is for mission operation such as precision search and video recording.



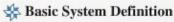
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SCANNER Man-Portable Small UAV system









Qty	Component
1	Ground Control Unit(GCU)
3	Air Vehicle with Container
3	Payloads
3	Battery

Technical Specifications

Air Vehicle System	Dimension	Unit
Wingspan	2400	mm
Length	840	mm
Gross Weight	3.0	Kg
Payload Capacity	0.5	Kg

System's Performance

Flight Duration	1.0Hour (Depending on Conditions)
Speed	40 - 70Km/h
Patrol Radius	5Km - 7Km

System's Capabilities

Video Camera	2 Daylight color CCD Cameras
Infrared camera	Thermal IR Camera (Optional)
VCR Recorder	6mm Digital camcoder (Optional)
GPS Receiver	Civilian C/A code GPS
	for accurate air vehicle location
Autopilot	Auto Loiter, Return Home,
	Pre-programmable Waypoint Mode
Loss of Link	Return Home Mode for safe recovery
Launch	Hand Launched or Elastic Launcher
Recovery	Normal skid landing or Net Recovery
Quick Assembly	Set-up time is less than 10 minutes
GIS	Laptop computer with Moving-map







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