



Man-Portable Small UAV system

SCANNER





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.



SCANNER

For additional information please contact : jwpark@uav-sys.com

SUEWON Unmanned Tech., 305-709, Dong-A Venture #807, Daejeon, SOUTH KOREA, Tel.: 82-42-828-7338



✧ Basic System Definition

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 camcorder (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



For additional information please contact : jwpark@uav-sys.com

SUEWON Unmanned Tech., 305-709, Dong-A Venture #807, Daejeon, SOUTH KOREA, Tel.: 82-42-828-7338



SUEWON U.T. Co., LTD.
305-709, #807, Dong-A Venture
Yusung, Daejeon, SOUTH KOREA
TEL: (82)42-828-7338
FAX: (82)42-828-7340
E-mail: jwpark@uav-sys.com
<http://www.uav-sys.com>