



SKOOKUM UAV

SK-900 UAV Helicopter Autopilot System

Commercial Flight Controller System for Unmanned Helicopters

SK-900

UAV Helicopter Autopilot Flight Controller

The SK900 commercial flight controller is designed specifically for unmanned helicopters up to 25kg, used for line-of-sight operations. It works well with gas or electric powered helicopters.



The SK900 uses high quality Pinpoint™ MEMS sensors, and an ARM 32 bit M4 processor. It includes features such as autonomous mission planning with waypoints, and semi-autonomous flight with pilot-assist, all controlled via our SK-GCS (Ground Control Station).

SK-900 System Features:

- GS software with full flight display, and offline (no internet) moving maps
- Helicopter health monitoring
- Video display and recording in the GS software
- Up to 50 waypoints
- Altitude up to 300m (1000ft) above take-off point
- Distance up to 5km from take-off point
- Speeds of up to 70km/hr
- Full flight logging, including photo-survey geodata
- Vibration analysis to assist with helicopter maintenance
- Auto-rotation algorithm in case of engine power lost
- Optional laser upgrade for above-ground altitude and automatic take-off/landing

SKOOKUM UAV
104-1687 W Broadway
Vancouver BC V6J 1X2
Canada
Tel: +1-604-734-3544

SKOOKUM UAV ASIA
Level 3, L430, Section 54 KTLD
Travilion Commercial Centre
Jalan Petanak, 93100, Kuching
Sarawak, Malaysia
Tel: +6-012-889-3639

www.skookumuav.com
info@skookumuav.com

*Subject to alterations
Illustrations are not binding*

Dimensions L x W x H	31 x 40 x 15mm
Weight	25g (1)
Operating temp	-40c to +70c
Operating voltage	5.5v - 10.0v input, max 150ma
Gyro sensor	Pinpoint™ MEMS sensors (2)
Processor	Single ARM 32 bit M4
Memory/Logging	4GB flash SD card
Inertial Measurement Unit	Pinpoint gyros + dual accelerometers
Environmental conditions	Shielded against EMI/RFI
Flight accuracy	+/- 1.0m horizontal, +/-0.5m vertical
Input/output	<ul style="list-style-type: none"> • One GPS port , One telemetry port • Two UART serial input ports • One I2C ports • Up to 10 PWM servo output ports • RPM input • One radio control style receiver input • Camera shutter control

(1) Up to 70g depending on anti-vibration base mount option

(2) Very low drift and high vibration resistance



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SK-GPSU

GPS/Altimeter Module

The SK-GPSU module includes position, 3D compass, and barometric altitude sensors. It also features a huge patch antenna for maximum signal reception.



Dimensions L x W x H	55 x 55 x 16mm
Weight	66g
Operating temp	-30c to +80c
Operating voltage	3.3 to 5.5v
Processor	ARM 32 bit M4
Environmental conditions	Shielded against EMI, RFI, static shock
Sensors	Position, 3D compass, barometric altitude sensors
Flight accuracy	GPS+GLONASS with 1.0m accuracy

SK-TELEM1

Telemetry Communication Radio* (Non-video)

2.4GHz ground and air telemetry communication radio for range up to 5km (3)



Dimensions L x W x H	75 x 50 x 15mm
Weight	75g
Operating temp	-30 to +80c
Operating voltage	5.0 – 16.0v input
Current draw	150 – 450ma
Data transmission frequency	2.4GHz 100mw (1)
Data transmission rate	115kbs – 250kbs (2)
Antenna	6db dipole
Radio range	Up to 5km line-of-sight (3)

** Telemetry Communication radio set includes one USB version for ground station and one airborne version for UAV*

(1) Optional 900MHz available

(2) Capable of 1 watt output when used with SK-1000



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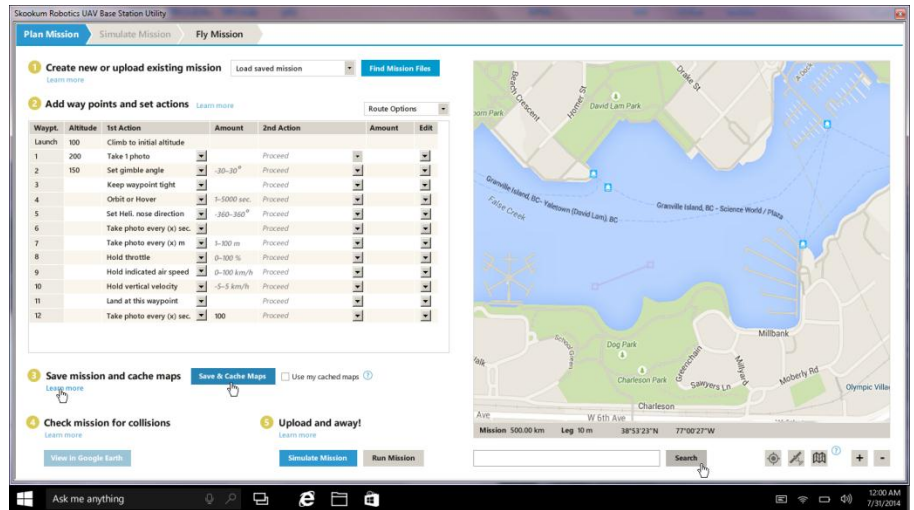
SK-GCS

Ground Control Station Software

Professional ground control software with Primary Flight Display (PFD), comprehensive real time aircraft monitoring, and offline maps (does not require an internet connection).

Features:

- Full autonomous mission planning with waypoints, flight planner wizard, and actions
- One-key-fail safe return-home function
- Full autopilot mode, semi-autopilot mode with pilot assist, or manual control via traditional RC controller
- Built-in video display
- Built-in auto-rotation algorithm in case of engine power lost
- Redundant safety features built-in
- Fully automatic take-off and landing available with optional laser upgrade



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