

# SAMEL 90

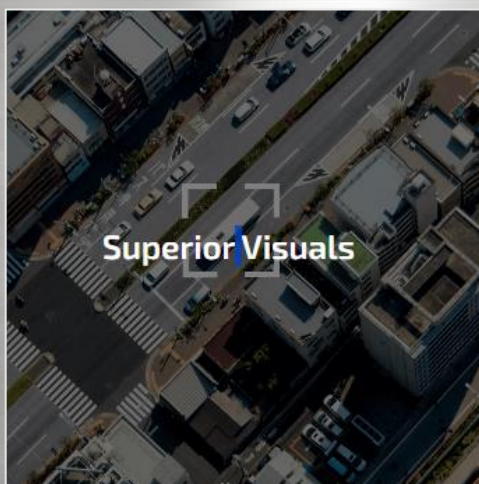
## INTEGRATED VTOL SYSTEM WITH DIFERENT TYPES PAYLOAD

Body length	2,60 m
Wingspan	4,80 m
Max. takeoff weight	70 kg
Max. payload	15 kg
Endurance / max. flight time	8 h / 5 kg load
Cruising speed	100 ÷ 150 km/h
Ceiling / max. altitude	4000 m



*Drone frame illustrative picture*

## ELECTRO OPTICAL SYSTEM (EOS) PAYLOAD MAIN FUTURES



Full HD EO /LWIR  
Laser Pointer  
Automatic Object Tracking  
Onboard recording and snapshot  
Moving Target Indicator Advanced

High precision Geo-Location incl. INS module with GPS  
Moving Map plugin software



*EOS illustrative picture*

*Samel-90 reserves the right to make changes in the system parameters that is not going to disturb functional parameters of the product*

18 Prespa Str. 2000 Samokov, Bulgaria Tel.: +(359) 722 68 201 Fax.:+(359) 722 66 337

Email: [office@samel90.com](mailto:office@samel90.com) [www.samel90.com](http://www.samel90.com)

# VTOL system: Ground Control Station (GCS) main parameters

Data link options for frequency bands

- 1.4 GHz \* Recommended for long range and best jamming resilience
- 2.4 GHz

Data link Video Interface

Data link Encryption

Adaptive frequency hopping

Option for antenna system

Ethernet

AES128/256

Yes

- Omnidirectional short range
- Directional, tracking long range

Auto waypoint / manual

- Samel 90 electronics concept board independent of computer and software work alone in sBus channel Datalink for maximum reliability.
- Mission Planner
- Plan Mission with way-points
- FULLY automatic Takeoff and landing
- FULLY automatic mission

Fly modes

Command Control Hardware

Can interrupt mission and enter in circle mode to check one detail and come back to continue mission every time  
Can switch from Automatic fly to manual fly every time

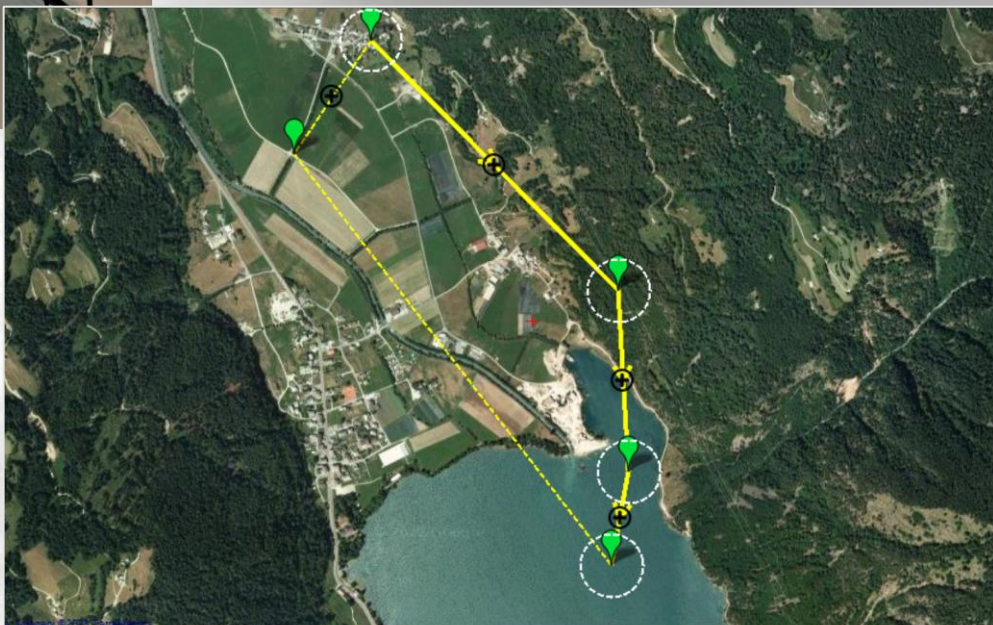
Software

Missions planning



GCS illustrative picture

Mission planning example



	Comando	Acc radius	Pass by	Lat	Long	Alt	Frame	Cancel	SU	Giù	Grad	Angle	Dist	AZ
1	WAYPOINT	0	0	46,3025624	10,0796127	80	Relative	X	☰	☰	20.3	11.5	402,1	34
2	WAYPOINT	0	0	46,2960988	10,0888824	80	Relative	X	☰	☰	0.0	0.0	101...	135
3	WAYPOINT	0	0	46,2914136	10,0892687	80	Relative	X	☰	☰	0.0	0.0	521,8	177
4	WAYPOINT	0	0	46,2889819	10,0886250	80	Relative	X	☰	☰	0.0	0.0	274,9	190

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