

Operator Control Unit

OCU-1000

Tellumat



Tellumat's Ground Control System (GCS) is a portable solution for controlling and managing unmanned vehicles. The GCS comprises of one or more Operator Control Units (OCU) and together with an AP1000/1100 antenna positioner form the complete Ground Control station solution

The GCS provides a fully networked capable system for the distributed control of UAV's as well as their payloads allowing for flight range extension by deploying additional networked GCS units. The key to this configuration are that the OCU's as well as the antenna positioner can be separated and networked by a secure network

This Beyond-Line-of-Sight (BLOS) component provides for multiple applications such as border and coastal patrol, pipe line observation and power line monitoring. Additionally this allows for centralised skilled UAV operations allowing for cost effective scheduling of highly skilled staff.

The OCU's are robust units housed within a ruggedized water proof container that can be deployed anywhere. The units are fitted with sunlight readable, fully HD, touch screen monitors. They provide an adaptable solution for either controlling the UAV, payload or both to meet deployment requirements.

The complete system can be transported and/or fitted into any suitable single vehicle with the minimum of effort. No permanent installations are necessary allowing for complete adaptability and versatility.

FEATURES

Fully networkable
Man portable
Reconfigurable software

BENEFITS

Allows for separated operation and BLOS operation
Ease of transportation and versatility
Less hardware is required, lowering costs

HARDWARE FEATURES

CPU	i7-4700EQ Quad Core processor
Display Type	21", 1920 x 1080 (HD), Touch screen
Display Brightness	1600 nits
Ethernet	4 x GbE
USB	4 x USB 3.0
SATA HD	2 x 500Gb, RAID 1
Power	220vAC @ 500w

SOFTWARE FEATURES

Pilot Control	
Waypoint Navigation	100 fully configurable waypoints
Return Home	25 fully configurable waypoints
Set Point	Combined singular inputs of Heading, Airspeed and Altitude
Manual	Variable inputs via RC Control box
Mapping	Upload of geo-referenced maps with multiple overlays
Communications	Antenna Positioner and data link control and status
ATC	Navigation beacons, Transponder, ATC radio and Altitude calibration
Deployment	Runway and alternative GCS positions configuration
Video	Viewing, recording and playback
UAV	Control and status as well as alarm management
Payload Control	
Payload	Configuration and full tilt, Pan and Zoom control
Video	Viewing, recording and playback
Map	Viewing

PHYSICAL CHARACTERISTICS

Mass	45Kg
Dimensions	1170mm x 535 mm x 245mm
Case Features	Rugged polyethylene case with carry handles, wheels and pressure relief/breather valve

ENVIRONMENTAL

Environmental Protection	IP66 when the OCU lid is closed
Operating Temperature	0° to +50°C
Transportation Shock	
Waterproof and dust tight	MIL-C-4150J
Resistant to Impact Damage	MIL-STD-810F
Resistant to UV and Solvents	MIL-STD-810F



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