

PGCS 3

Portable Ground Control Station for UAV

PGCS 3 is based on a console with controls and a docking interface for a military-grade rugged Getac X500 laptop computer. All main UAV and payload controls are collected on the ergonomic control panel. Console joysticks, push-buttons and switches are industrial water-proofed units. Console housing is made of aluminum alloy. The ability to integrate different 15" laptop computer models makes the system even more versatile platform to use.

PGCS 3 can be used as a simulator. A digital modem integrated into the UAVOS system provides UAV control without using an external antenna complex. UAVOS has also developed a switching and power supply board which allows the PGCS 3 to work from various power sources, as well as to charge the docked computer.



SPECIFICATIONS

Parameters	Data
Temperature range	from -20°C to +55°C
Dimensions	Length 656 mm, width 332 mm, height 128 mm
Battery life of the GCS	Not less than 2.5 hours
Weight	Console weight – 3.9kg Getac X500 weight – 5.5kg
Control panel	<ul style="list-style-type: none"> - Secure keyboard - 11 function buttons, 2 rotary controls, 2 switches - Payload joystick - UAV joystick - Accelerator joystick - Battery status indicator
Accumulator batteries and chargers	-Standard internal Li-Fe rechargeable battery: 10.8V, 8700mAh -AC adapter (150W, 100-240VAC, 50 / 60Hz)
Audio subsystem	Realtek ALC888-VC2 HD audio codec

Parameters	Data
Processor	Intel® Core™ i7-7820HQ vPro™ Processor 2.9GHz, Max 3.9GHz
RAM	8 Gb DDR4
Display	15.6" TFT LCD FHD (1920 x 1080)
Hard Drive	SSD 512GB
Wireless network	<ul style="list-style-type: none"> - Intel® Dual Band Wireless-AC 8265, 802.11ac - Bluetooth® (v4.2)
External connectors	<ul style="list-style-type: none"> - Serial port (9-pin; D-sub) x 2 - External VGA (15-pin; D-sub) x 1 - Microphone (Mini-jack) x 1 - Audio output (Mini-jack) x 1 - DC in Jack x 1 - USB 3.0 x 4 - LAN (RJ45) x 2 - HDMI x 1 - Amphenol PT02E-8-4P - Amphenol PT02E-10-6P - Amphenol PT02E-12-10P