

- Universal off-the-shelf ground control station
- Based on fully ruggedized Panasonic CF-31 Toughbook
- Integrated Toughbook docking station
- Two Hot-swappable lithium batteries
- User-dedicated modular electronics compartment
- Two 12 V power outputs for datalinks
- Comprehensive set of connections
- Super bright 17" and 13" touch screen displays
- 10-32 VDC input range

PORTABLE GROUND CONTROL STATION

A Universal Off-the Shelf Solution



System Overview:

UAV Factory's off-the-shelf portable Ground Control Station (GCS) is a flexible and universal solution for controlling unmanned vehicles and payloads. By using a unique, modular electronics compartment (MEC), application specific hardware can be quickly installed. This flexibility allows the GCS to be configured to control unmanned aircraft vehicles (UAV), ground robots, bomb disposal robots, remotely operated vehicles (ROV) and other robotic devices. The GCS can also be configured to control and monitor measurement and sensing equipment.

Based on Panasonic's field proven CF-31 Toughbook, the GCS has additional 17" sunlight readable touch screen display, advanced power distribution system with hot-swappable dual batteries and status monitoring features. The GCS is housed in a military grade rugged lightweight case which makes it ideal for use in harsh environments.

Dimensions:



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- Intuitive power monitoring display
- Over-voltage, over-current, reverse polarity protection
- Battery over-discharge protection
- User-serviceable fuses
- Removable Cordura bag for accessories
- Carry handles, wheels and shoulder strap
- Ruggedized and lightweight design

Features:

The GCS can be configured for many different applications by using the modular electronics compartment. The modular electronics compartment contains a comprehensive set of connections which allows the user to install application specific hardware such as autopilot RF-modems, video receivers, data links, data storage and recording devices. The connection ports are routed directly from the electronics compartment to the docked Panasonic CF-31. This makes all hardware installation essentially plug and play.

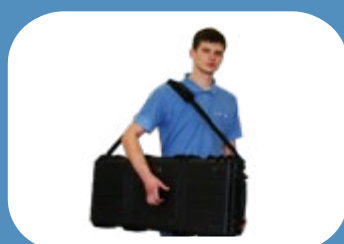
With the capability to be powered from 10-32 VDC, the GCS can be used anytime, anywhere. Dual hot-swappable Lithium batterie provide up to 2 hours operation time. Batteries can be hot-swapped without restarting the GCS, allowing for extended operation time.

The integrated power distribution system provides two 12 VDC, 50 W power outputs for the equipment in the electronics compartment as well as external devices that are used in conjunction with the GCS. Sensitive electronic equipment is protected by built in power safety features including over-voltage protection, over-current protection, reverse polarity protection and battery over-discharge protection.

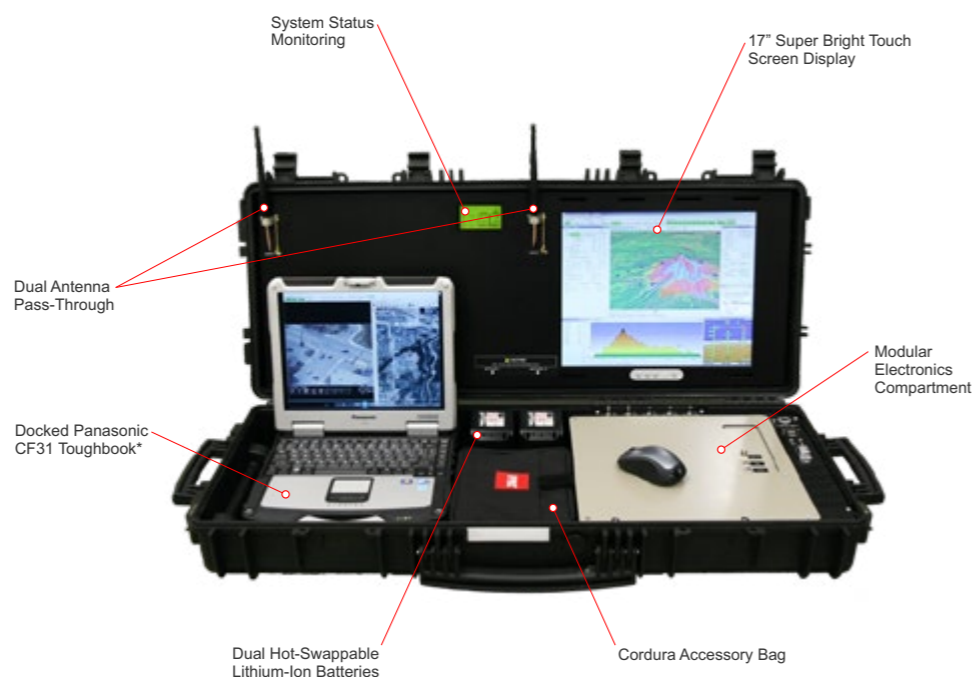
The GCS is housed in a military-grade transportation case for maximum protection. A removable Cordura accessories bag makes it convenient to carry small components and accessories such as a joystick, mouse, wiring, antennas, external GPS antenna.



GCS with optional foldable stand.



GCS with optional shoulder strap.



* Panasonic Toughbook CF-31 is not included with GCS and needs to be purchased separately from your local supplier

Computer Specifications (not included with GCS):

Parameter	Value
Model	Panasonic Toughbook CF-31 (specifications as per manufacturer datasheets)
Durability	MIL-STD-810G & IP65 certified (6' drop)
Display Type	13.1" XGA touch screen LED 1024x768
Brightness	1100 nits

Mechanical Specifications:

Parameter	Value
Dimensions	1000 x 420 x 170 mm
Weight (excl. Panasonic Toughbook CF-31)	18.9 kg
Environmental protection	IP66 when closed
Operating temperature	(-20 to +60 °C)
Electronics compartment dimensions	320 x 270 x 80 mm
Electronics mounting base	M4 threaded mounting grid, 45 mm pitch, aluminum mount kit included
Accessory bag internal dimensions	220 x 160 x 70 mm
Case features	Rugged plastic case, side handles, carry handle, wheels, pressure purge valve, shoulder strap (optional)
Computer mounting	Docking

Electrical Specifications:

Parameter	Value
DC input	10 – 32 VDC Over-voltage protection, reverse polarity protection
Battery type	Lithium Ion
Battery Capacity	108 Wh
Battery Operation time	2 hours (typical)
Connections (all routed to Panasonic CF-31)	2 serial (RS-232), 5 USB, 2 Ethernet, 1 Composite Video in (IMPERX video device needed), 1 VGA in (optional), 1 Microphone in, 1 Audio out, PCMCIA slot, HDMI
Connections to 17" display	Composite Video (Optional), external VGA input (Optional)
DC power output 1	12V 5A fused, 50 W
DC power output 2	12V 5A fused, 50 W
Antenna pass-through	Two 50 Ohm antenna pass-through to upper lid. SMA-RP termination, RG 142

17" Display Specifications:

Parameter	Value
Display Type	17 " TFT 1280 x 1024 (SXGA) Optional touch screen
Brightness	1600 nits
Signal source	Selectable between Panasonic Toughbook and external VGA input (Optional)

Accessories:

AC/DC adapter 110 - 240 VAC to 24 VDC complete with push-pull connector
Power supply cable with push-pull connector, unterminated, 12 AWG, 5 m
GCS foldable stand
Shoulder strap

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