



## GCS Pro V2

TAKE THE FULL CONTROLL

Pilot and manage your uav designs  
with our professional ground control stations.  
Compatible with most ppm radio modules,  
digital ip modems, video receivers and your designs!.

# No compromise

Ground Control station Pro V2 was created for the most extreme operational needs. Enclosed in a robust IP67 waterproof case, GCS PRO V2 integrates the most advanced technology available on the market combined with unrivaled ergonomics of use.

15" Monitor and 10" MultiTouch Display, Ultra-precise Large Control Sticks, Buttons and Switches easily identifiable, facilitate its use in the field in the most extreme conditions thanks to the autonomy of continuous use of 12 hours.



## Main features

- Up to 50km of transmission range
- 2.4GHz, 5.8GHz, 1,4GHz and custom frequencies
- AES256 Encrypted signals
- Monitor IPS 15" 1000 cd/m<sup>2</sup>
- 10" Multitouch display for drone management
- 16 direct control channels for gimbals and sensors
- 4-axis control joystick
- FullHD 1080p H264/H265 video signal
- 180ms of maximum latency
- 3G/4G connectivity through MicroSIM slot
- Android 9.0 inside
- Up to 12 hours of autonomy of use
- Fast charging (3 hours)

# Main characteristics

- Ready to use with integrated Datalink / Videolink
- Up to 50km transmission range
- 2.4GHz, 5.8GHz, 1.4GHz and custom frequencies
- AES256 encrypted signals
- 15inch 1000 cd/m2 IPS monitor
- 10inch Multitouch display
- 16 direct control channels for gimbals and sensors
- 2 x 3-axis control joystick (retractable)
- FullHD 1080p H264 / H265 video signal
- 180 ms of maximum latency
- 3G / 4G connectivity
- Android 9.0 inside
- Up to 12 hours of autonomy of use
- Quick charge (3 hours)
- Rugged with Pelicase IP67
- Modular Electronics
- 2 x 12V @ 5ah power outputs
- Wide range of I/O connections
- 12V DC and 110 / 220V AC power supply



## Always Ready

With the ability to be powered at 12V DC and 220V/100V AC it makes it usable anywhere without operating limits.

The integrated power distribution system provides two 12VDC, 50W power outputs for electronics in the electronics compartment and external devices used in conjunction with the GCS.

Sensitive electronic equipment is protected by built-in power safety features, including overvoltage protection, overcurrent protection, reverse polarity protection, and battery overcharge protection.





## Connectivity

- 1 x AC / DC input
- 1 x Ethernet Port RG45
- 1 x HDMI out
- 1 x Telemetry Port
- 1 x USB 3 Port
- 1 x Sim card Slot (4G connection)
- 1 x Wifi
- 1 x Bluetooth 4.0

## Controls

- 2 x 4-axis retractable joystick
- 2 x precision slides
- 6 x 2/3 position switches
- 1 x button
- 1 x 2-axis joystick

## Technical Details

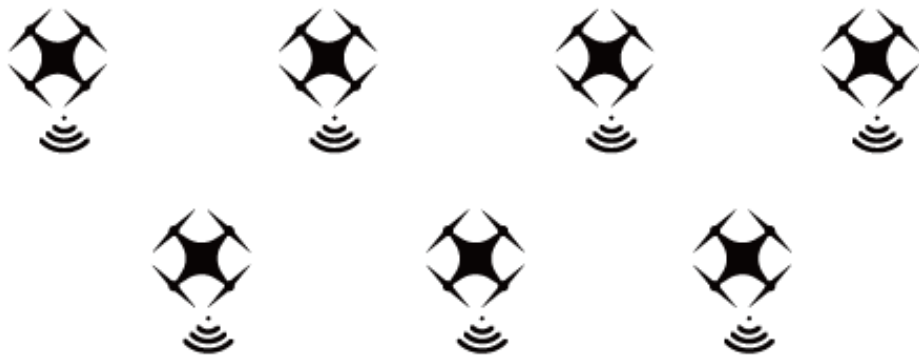
<b>Display 1</b>	<b>10.1" multitouch 1920x1200 pixel 800NITS</b>
<b>Display 2</b>	15" 1920x1200 pixel, 700NITS
<b>Video I/O</b>	HDMI/USB-C
<b>GCS Protocoll</b>	PPM,SBUS,SERIAL
<b>Embedded computer</b>	Qualcomm octacore 64 bit 1.8 GHz 3GB di 3 RAM e 32 GB
<b>Peripherals</b>	External Keyboard e Mouse Wireless
<b>Wireless</b>	Intel 8260 M.2 Wifi AC, Bluetooth 4.0,
<b>GCS Layout</b>	HOTAS (Hand on Throttle and Stick)
<b>Joystick Primari</b>	APEM Hall Effect - 3 Axis
<b>Joystick Secondario</b>	2 Axis – Payload/Gimbal control
<b>Switch</b>	6 switch 3 position, 1 botton, 1 Guarded Switch 2 position
<b>Throttle</b>	2 Delrin Precision Slider
<b>Dimension</b>	Pelican 414x345xH174
<b>Weight</b>	5,8Kg
<b>Color</b>	Black (Orange on request)

# Data/Video Link Detail

- Frequency : 1.4GHz/2.4GHZ/Custom
- Bandwidth : 10MHz (uplink); 10MHz(downlink)
- Power : 27dBm-30dBm
- Modulation : OFDM
- Constellation : BPSK;QPSK;16QAM
- FEC : LDPC (1/2, 2/3, 3/4, 5/6)
- Duplex : TDD
- Baudrate : 19Mbps(max)
- Working temperature : -20°C ~55°C
- Size of ground unit : 77.8X47.3X23.5mm
- Size of air unit : 77.8X47.3X23.5mm
- Weight : 97g(air unit)
- Video Interface : Ethernet/HDMI
- Other Interface : SBUS, PPM, Serial, USB
- Encryption : AES128/256
- Anti-Jamming : Optional
- Network topology : Star
- Node : 1 master node, up to 6 slave nodes
- Communication distance: 15km-30km;30km-50km;50km-100km



Master



Point-to-multipoint

Slave



Point-to-multipoint



## Track Antenna

- Video input interface:Ethernet/HDMI
- Video output interface:Ethernet/HDMI
- Video protocol:TCP/UDP
- Telemetry input port:Serial;TTL
- Telemetry output port:Serial;TTL
- Frequency:1.4GHz
- Distance:100Km
- Downlink throughput:10Mbps(Max)
- Uplink throughput:300Kbps(Max)
- Max of power:33dBm
- Distance:100km
- Telemetry input port:115200bps(Max)
- Telemetry output port:115200bps(Max) Tracker
- YAW stability enhancement accuracy: $\pm 1^\circ$
- YAW rotation range:Unlimited
- PITCH rotation range:-15~135°
- Max turning rate:300 °/s
- Consumption:30W
- Working temperature:-20~50°C
- Working humidity:20%~70%



## INFO & SALES

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