



DESERTFOTOR

Ground Control Systems for Unmanned Vehicles

12PCX HOTAS

STREAMLINE YOUR GROUND OPERATIONS

- FLY VIRTUALLY ANY AIRCRAFT TYPE AND AUTOPILOT SYSTEM
- EASY TO PILOT VIA GCS SMART VIEW™ & THE HOTAS LAYOUT
- ELEVATE YOUR FLIGHT OPERATIONS WITH THE FUTURE



NEXT GENERATION

Ground Control System



(OPTIONAL RUCPAC™ BACKPACK ATTACHMENT SHOWN)



- **Our Philosophy -** Offer products that are high quality, highly compatible and cost effective. Integrating proven technology coupled with our innovative interfacing and design skills keeps costs down all while offering countless unmatched features.
- **Our Skills -** The Desert Rotor team has designed breakthrough ground control systems in the defense sector. We bring that extensive knowledge and skill to our products, proudly designed and assembled in Scottsdale, Arizona USA.
- **Flight Controls -** Operate unmanned aerial vehicles the natural way using **HOTAS (Hands on Throttle and Stick)**. The gaming and defense industry utilizes this layout and truly is the simpler more professional way to fly.
- **Universal -** We design our systems to be able to accommodate rapidly evolving technology. Use our ground control systems with virtually any unmanned vehicle and autopilot system.
- **Your Business -** Elevate your business by using and offering a ground control system that is cost effective, easy to use and raises your professional brand. OEM available. Offer your own brand of ground control system.

THE PRESENT



Scattered Unreliable Components

- High Learning Curve, Slow Setup & Training Process
- High Risk - Incorrect Compromised Cables, Component Failure
- Flight Controls / Payload / Gimbal - Awkward Archaic Layout
- R/C Transmitters - Decades Old Layout Meant for Toys
- Mobile Devices - Little to No Features / Functions / Compatibility

Unprofessional, Confusing, Fail-points and Archaic

THE FUTURE

NEXT LEVEL
AERIAL OPERATIONS



A True Turn-Key Solution

- HOTAS (Hands on Throttle and Stick) Layout Easier To Fly
- Payload/Gimbal Controls That Make Sense
- No Cables, Connectors, Confusing Batteries & Chargers
- Eliminates Countless Pre-Flight Procedures
- Compatible Enough to Use Your Preferred Hardware & Software

Your Entire Ground Operations in ONE Professional System!

Fly Virtually Any Aircraft Type and Most Autopilot Systems. Streamline Your Ground Operations, Fleet and Future Designs

Powerful Options for A Powerful Ground Control System



868/915MHz TBS Crossfire™ Long Range Transmitter/Receiver
900MHz RFD Modem™ Long Range Transmitter/Receiver
2.4GHz PicoRadio w/Microhard Aircraft Modem



2.4GHz Microhard™ GCS Modem
4G/LTE Microhard™ Bullet Plus



5.8GHz Lumenier™ 40CH Video Diversity Receiver
5.8GHz IftronTech VITENNAS™ Video Antennas
4S 5200mAh Lithium-Ion Packs - Run in Parallel & Hot Swap

Long Range (5+ Miles) When Using Plug & Play Transmitter Modules*

PICORADIO



TBS CROSSFIRE

*Check your local laws, most areas require a HAM Radio License to operate Long Range RF Transmitters/Modems/Radios optional with 12PCX HOTAS



- FEATURES YOU WON'T FIND ELSEWHERE -

The 12PCX HOTAS

*Designed, to the Millimeter,
into a Pelican™ 1510 Case*



- FAA Maximum Carry On Size
- Retractable Extension Handle
- Strong Polyurethane Wheels
- Easy Open Double Throw Latches
- Automatic Pressure Equalization Valve



- Desert Rotor GCS SMARTVIEW™ OSD
- Two Auxiliary Bays for Video Receivers / Modems / Cellular Radios
- Dual Ultra-Bright LED LG Display™ 1200NIT Sunlight Viewable
 - APEM™ Hall Effect 3-AXIS & 2-Button Joystick
 - 2-AXIS Payload/Gimbal Joystick
- HDMI Out / Video In-Out / 2 - 12V Power Out Connectors

The Logic Supply™

Embedded PC

is Art in Itself



- INTEL™ Celeron or i3/i5 Broadwell
 - 4GB DIMM/8GB DIMM
- 64GB / 128GB / 256GB Storage
 - Windows 7 / 10

12PCX HOTAS

AIRBORNE INNOVATIONS



GCS SMART VIEW™

LOGIC SUPPLY



APEM

- The Revolutionary GCS Smart View™ interface allows users to easily bind and configure the 12PCX HOTAS to virtually any aircraft type and autopilot system
- Assign channels and functions to your preferred joysticks, switches, dials and buttons through a fully interactive on-screen display overlay
- Dial-in commercial UAVs with ease and switch between aircraft models quickly and confidently. The software interface naturally streamlines pre-flight procedures

BUILT TO LAST AND EVOLVE

- Easily switch out components and R&D with future technology developments in video receiving, lithium batteries, personal computing, transmitter modules and modems. Auxiliary bays for video receivers, modems, cellular radios and satellite technology

Channels	12 Channel Functionality
Displays	Ultra-HD 10.1" 1920x1200 IPS Tech 700 NITs
GCS Interface	Desert Rotor GCS Smart View™ OSD
RF Compatibility	Microhard/ Picoradio / Crossfire / RFD / DragonLink
Auxiliary Bay 1	Plug-n-Play Video Receivers / Transmitter Modules
Auxiliary Bay 2	Plug-n-Play Digital Modems / 4G-LTE / COM HUBs
Battery	4S Li-ion 5.2Ah (Parallel Ports for 10.4Ah or more)
Flight Controls	HOTAS (Hands on Throttle and Stick) Layout
Flight Joystick	APEM 55™ Hall Effect - 3-AXIS / 2-Top Button
Throttle	Delrin Machined Precision Slider
AUX Joystick	2-AXIS Payload & Gimbal Controls w/Dial
Switch Array	6-POS/3-POS/2-POS/Guarded/Button/Rotary
Embedded PC	Logic Supply™ Intel/DIMM/SSD Storage/Windows
Wireless	Intel 8260 M.2 Wi-Fi AC, Bluetooth 4.0, vPro
Peripherals	Integrated Keyboard & HulaPoint™ Mouse Sensor
Case	Pelican™ 1510 (22" x 13.81" x 9") L x W x D - 28LBS
Color	Black Onyx or Desert Gold

\$6,800 MSRP

Dealer Rates and OEM Available
Offer Your Own Brand of GCS!

Disclaimers - Things You Need to Know

- 8 to 10 weeks production lead time, subject to change
 - Options & pricing, subject to change
- Tax and shipping costs are in addition to the price quoted
- You are responsible for checking your local laws and regulations
- Rules and regulations vary in every region operating unmanned aircraft.
It is entirely your responsibility to be in adherence and ensure all your equipment and personnel is compliant to the region
- Marketing literature & demo units shown may vary slightly to the production version

Desert Rotor is not responsible for misuse or unlawful use of our products. Operating unmanned technology can lead to criminal prosecution, jail, serious injury and death of yourself and many others.
Be Smart!

*Check You Local Laws & Regulations as some regions may not allow the use or require a HAM radio license to operate the various offered transmitters and/or along with the 12PCX.

*RF Transmitter Modules	868/915MHz TBS Crossfire™ - Air & Ground	+\$350				
	RFD900X Radio Modem Set - Air & Ground	+\$300				
	12PCX Adapter Dock & FTDI for RFD900X	+\$150				
	12PCX HOTAS PPM Signal Cable	Included				
*Digital Communications	900MHz/2.4GHz MIMO Picoradio™ - Air	+\$850				
	900MHz/2.4GHz MIMO Microhard™ - Ground	+\$750				
	Picoradio Cable Kit	+\$100				
*Video Receiver	5.8GHz Clearview™ Pro Diversity	+\$680				
	5.8GHz Lumenier™ Diversity	+\$50				
*Cellular Data	4G/LTE Microhard™ Bullet Cellular Radio	+\$400				
Antennas	5.8GHz Vitennas™ Video Antenna Set	+\$100				
	868/915MHz TBS Diamond for Crossfire™	+\$30				
	2.4GHz Pepperbox for Microhard™	+\$150				
	2.4GHz RHCP Antenna for Picoradio™	+\$50				
Batteries	Li-ion 4S 5,200mAh	Included				
	(1) Li-ion 4S 5,200mAh (For Parallel)	\$150				
Charger	14.8V/1.8A (UL-CE) Li-ion Charger	Included				
Power Supply	18V/6A (UL-CE) Power Supply	Included				
Embedded PC	Processor	RAM	GB	OS	GPU	+add
Intel Bay Trail	Celeron 1.83GHz	4GB	64GB	Win 7	Intel HD Graphics	Included
Intel Kaby Lake Dual Core	Core i3 2.4GHz	8GB	256GB	Win 10	Intel HD 620	+\$750
Intel Kaby Lake Dual Core	Core i5 2.6GHz	8GB	256GB	Win 10	Intel HD 620	+\$1200
Intel Kaby Lake Quad Core	Core i7 1.90GHz	16GB	512GB	Win 10	Intel HD 620	+\$1800



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All images, trademarks and patent pending systems are privately held by Desert Rotor, LLC and its Founders

Skybotics SkyBot-FW - High Resolution Long Range Mapping & Surveillance UAV (not included)

Patent Pending #62/365,311

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