

DESERTFOTOR

GROUND CONTROL STATIONS FOR UNMANNED VEHICLES

STREAMLINE YOUR GROUND OPERATIONS

TAKE YOUR COMMERCIAL UAV DESIGNS TO THE
NEXT LEVEL OF DIGITAL CONNECTIVITY



NEXT LEVEL
UNMANNED OPERATIONS

DESERT ROTOR

- **Our Mission -** Offer revolutionary Ground Control Stations (GCS) designs that are high quality, highly compatible and cost effective.
- **Our Skills -** The Desert Rotor team has designed a variety of breakthrough ground control systems in the defense sector. We bring that extensive knowledge and skill to our products, proudly designed and manufactured in Scottsdale, Arizona, USA.
- **Flight Controls -** Operate unmanned 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 pilot.
- **GCS Interface -** Our revolutionary GCS Smartview™ software/hardware interface allows for quick integration with the rapidly evolving technology. Interface with virtually any unmanned vehicle and autopilot system.
- **Your Business -** Elevate your unmanned operations by offering a GCS that is powerful and raises your professional brand. OEM available. Offer your own brand of GCS.



MIRA X

MIRA X IS OUR SIGNATURE DESKTOP GCS

- Designed to be highly functional, reliable, and portable.
- Optimized for Unmanned Vehicles, Robotics, and Counter UAS.
- Highly Customizable Components and Features. Designed to fit your GCS Requirements.
- Customize the Switch array, I/O Ports, and Communication Systems to elevate your Operations.

Model	Base MIRA X
Displays	Single LG Display™ 19" HD Wide
Resolution	1440x900
Brightness	Sunlight Viewable - 1200NITS
GCS Radio Interface	GCS SmartView™ Touchscreen HUD
GCS Protocols	PPM, SBUS, SERIAL
MAVLink Interface	Dual Interactive Windows Gamepads
Embedded PCs	OnLogic™ HX500 Intel Comet Lake, i3, i5, i7, i9
Peripherals	Integrated Keyboard & Multi-Gesture Trackpad
GCS Layout	HOTAS (Hands On Throttle and Stick)
Flight Joystick	APEM™ Hall Effect - 3-AXIS / 2-Top Button
Aux Joystick	2-Axis Payload/Gimbal Joystick
Switch Array	6-POS/3-POS/2-POS Guarded/2 Dials
Throttle	Precision Slider w/ Detent
Size (L x W x D)	Pelican™ 1510 (22"x 13.81"x 9")
Color	Midnight Black, Desert Gold, Hunter Green



WORLD RENOWNED HIGH QUALITY · RUGGED CONTROLLER FOR INTUITIVE DESIGN · HIGHLY RELIABLE INTERFACE

COMMAND XD

COMMAND XD IS A TABLETOP-MOUNTED GCS DESIGNED FOR UNMANNED VANS, TRUCKS, AND COMMAND CENTERS

- Transform your workstation into a powerful command center by utilizing up to 3 independent displays of your choice with **COMMAND XD**.
- The optional RF Expansion Bay allows the use of up to 6 radios and space for added COM systems.

Model	COMMAND XD
Display I/O	Up To 3 Independent Displays HDMI/DVI
Analog Video	Analog To Windows Converter
GCS Radio Interface	GCS SmartView™ Touchscreen HUD
GCS Protocols	PPM,SBUS,SERIAL
MAVLink Interface	Dual Interactive Windows Gamepads
Embedded PCs	OnLogic™ Intel Comet Lake i5, i7, i9
GPU	Intel UHD Graphics 630
Peripherals	Integrated Keyboard & Multi-Gesture Trackpad
Wireless	Intel 8260 M.2 Wifi AC, Bluetooth 4.0, vPro
GCS Layout	HOTAS (Hands On Throttle and Stick)
Flight Joystick	APEM™ Hall Effect - 3-AXIS / 2-Top Button
Aux Joystick	Hall Effect 2-Axis Payload/Gimbal Joystick
Switch Array	6-POS/3-POS/2-POS Guarded/2 Dials
Throttle	Precision Slider w/ Detent



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FENNEC XS

FENNEC XS WILL SET THE BENCHMARK FOR UNIVERSAL HANDHELD GCS.

- FENNEC XS will maximize functionality without compromising portability.
- The ergonomic design and powerful operating system will give operators the ability to switch between vastly different vehicles with one controller.



COMPACT DESIGN + DYNAMIC/CUSTOMIZABLE
CONTROLS YOU CAN BRING ANYWHERE!

WORLD RENOWNED HIGH QUALITY · RUGGED CONTROLLER FOR INTUITIVE DESIGN · HIGHLY RELIABLE INTERFACE

DESERT ROTOR

GCS SMART VIEW™



ONLOGIC



APEM

GCS SmartView™ Touch Screen HUD allows users to monitor and configure the GCS controls to virtually any radio and autopilot system.

Assign channels and functions to your preferred joysticks, switches, dials, and buttons through a fully interactive software GUI and touch screen HUD.

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.

Auxiliary Controller Capability with GCS

Channels	12+ Channel Functionality
GCS Interface	Desert Rotor GCS Smart View™ OSD
RF Compatibility	Microhard / RFD / Doodle / Silvus / Persistent
MAVLink Interface	Dual Interactive Windows Gamepads
GCS Protocols	PPM, SBUS, SERIAL, MAVLink
Battery	4S Li-ion 6.6Ah (Parallel Ports for 13.2Ah or more)
Flight Controls	HOTAS (Hands on Throttle and Stick) Layout
Flight Joystick	APEM 55™ Hall Effect - 3-AXIS / 2-Top Button
Throttle	Precision Slider w/ Centered Detent (Knurled Knob)
AUX Joystick	2-AXIS Payload & Gimbal Controls w/Dial
Switch Array	6-POS/3-POS/2-POS/Guarded/Button/Rotary
Embedded PC	OnLogic™ Helix 500 Comet Lake i5, i7, i9
Wireless	Intel 8260 M.2 Wi-FiAC, Bluetooth 4.0, vPro
Peripherals	Integrated Keyboard & Multi-Gesture Trackpad

GCS ACCESSORIES

- COLLAPSIBLE RUGGED FIELD STAND -

Sturdy, Light, Tough, and Fully Collapsible.



Designed by the highly skilled Desert Rotor team in collaboration with our world class clients we bring you our latest field accessory. Lightweight Carbon Fiber Legs mounted under the field stand for quick access and setup. Drop the Pelican 1510 into the stand, turn on the GCS and start your commercial UAV operations in the most rugged of locations.

- GCS PANOVIEW™ -

Go wide with our 15.6" mounted panoview anti-glare HD monitors!



- 60HZ - 1920 X 1080 - IPS LCD - MINI HDMI / USB C.
- EQUIP 1 OR 2 AT ANY TIME TO EXPAND VIEW + WORKSPACE
- VESA SWIVEL MOUNTS FOR DUAL PILOT OPERATIONS.

*Store dual PanoView displays in a single, lightweight Pelican Vault Case!



OPERATE VIRTUALLY ANY UNMANNED DESIGN, COMPATIBLE WITH MOST RADIOS & AUTOPILOT SYSTEMS

-Streamline Your Ground Operations,
Fleet and Future Designs.

Powerful Options for A Powerful Ground Control System

- Silvus StreamCaster MIMO Radios
- Persistent Systems Radios
- Airborne Innovations-Microhard MIMO Radios
- SkyHopper Digital Radios
- Doodle Lab Smart Digital Radios
- TBS Crossfire / Dragonlink Radios

PERSISTENT SYSTEMS


SILVUS
TECHNOLOGIES
DOODLE
labs

 SKY
HOPPER

RF DESIGN

GCS uses universal interface and is not limited to these radios

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



CONTACT US FOR A QUOTE TODAY!

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

Disclaimers - Things You Need to Know

- 6-8 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 your local laws & regulations as some regions may not allow the use or require a HAM radio license to operate the various offered radio systems with Desert Rotor GCS.

Options & Pricing	
*Analog Communications	868/915MHz TBS Crossfire™ - Air & Ground
	RFD900X Radio Modem Set - Air & Ground
	Adapter Dock & FTDI for RFD900X
*IP Digital Communications	2.4GHz MIMO 2x2 Picoradio™ - Air
	2.4GHz MIMO 2x2 Microhard™ - Ground
	Picoradio Cable Kit w/Serial to SBUS Converter
	4G/LTE Microhard™ Cellular Radio - Ground
	SkyHopper LTE/Combo
	900MHz/Triband Picoradio™ MIMO Nx
	Sky-Drones SmartAP AiRLink
Video Communications	Silvus Streamcaster 4200
	Persistent Systems MPU5
Antennas	Airborne Innovations Picocamera
	Clearview HD Direct Video System
Field Accessories	2.4GHz Pepperbox Antenna for Microhard™
	2.4GHz RHCP Antenna for Picoradio™
	Airborne Innovations Tracking Antenna
	Digital IP Long-Range Antenna Tracking System
Batteries	GCS Quick Deployment Field Stand
	2x GCS PanoView 15" Panoramic Displays
Charger	2x Li-Ion 4s 5,200mAh (In Parallel)
	Upgraded 2x Li-Ion 4s 6,600mAh (In Parallel)
Power Supply	14.8V/1.8A (UL-CE) Li-Ion Charger
	18V/6A (UL-CE) Power Supply

Embedded PC	Processor	RAM	GB	OS	GPU
Intel Comet Lake	Core i5	8GB	256GB	Win10	Intel UHD 630
Intel Comet Lake	Core i7	16GB	512GB	Win10	Intel UHD 630
Intel Comet Lake	Core i9	16GB	512GB	Win10	Intel UHD 630

*Check Local Laws & Regulations

Total (+Shipping & Taxes)

SCALE YOUR UNMANNED OPERATIONS WITH A DESERT ROTOR GCS



Operate Land, Sea & Air unmanned vehicles
with our revolutionary GCS designs.



Our GCS platforms are used all over the world and in all climates. Worldwide Shipping Available.

www.DesertRotor.com



DESERT ROTOR

OUR COMMITMENT TO YOU:

Desert Rotor is committed to designing and manufacturing cost effective, high quality and highly capable GCS platforms. Our revolutionary GCS models are used all over the world in Land, Sea and Air unmanned applications. Let us help you scale your unmanned operations by manufacturing your GCS requirements.

Our world class technical support is available to help you realize your business and technological goals. Our staff has deep integration experience with all the latest radios and autopilot systems.

Our experience will help bring your designs to the next level.



Contact us to find out how we can elevate your unmanned designs and business.
Go with the most trusted brand worldwide for unmanned ground control technology.



Patent #15/626,359
Patent #29/608,396

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

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

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