

# DESERTROTOR

GROUND CONTROL STATIONS FOR UNMANNED VEHICLES

STREAMLINE YOUR GROUND OPERATIONS

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



NEXT LEVEL  
AERIAL 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.



## 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



### 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!

# 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
- Airborne Innovations-Microhard MIMO Radios
- SkyHopper Digital Radios
- Doodle Lab Smart Digital Radios
- TBS Crossfire Radios
- RF Design Radios



**PICORADIO**  **SKY  
HOPPER**

**DOODLE  
labs**

**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

- FEATURES YOU WON'T FIND ELSEWHERE -

## MIRA 12X

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



*The OnLogic HX500  
is Art in Itself*



- FAA Maximum Carry On Size
- Retractable Extension Handle
- Strong Polyurethane Wheels
- Easy Open Double Throw Latches
- Automatic Pressure Equalization Valve
- GCS SmartView™ 3.0 Interface - With Touch Screen HUD
- PPM/SERIAL/SBUS Output and PPM Input for Radio/Auxiliary Communications
- 19" HD Wide LG Display - Optional Dual 15" Panoview™ Displays
  - APEM™ Hall Effect 3-AXIS & 2-Button Joystick
  - 2-AXIS Payload/Gimbal Joystick and Dials
- 12 Channel RF System - Assign Channels and Functions to Switches/Dials/Joysticks

- Intel Comet Lake - Core i5/i7/i9
- 8GB to 16GB SO-DIMM
- 256GB to 512GB Storage
- Windows 10 IOT Edition

\*Other Configuration Available!

# MIRA 12X

## GCS SMART VIEW™

AIRBORNE INNOVATIONS



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

<b>Channels</b>	<b>12 Channel Functionality</b>
<b>Displays</b>	<b>Single 19" HD Wide / Optional Dual 15" PanoView™</b>
<b>GCS Interface</b>	<b>Desert Rotor GCS Smart View™ OSD</b>
<b>RF Compatibility</b>	<b>Microhard / Crossfire / RFD / Doodle / Silvus</b>
<b>Brightness</b>	<b>Sunlight Viewable - 1200NITS</b>
<b>GCS Protocols</b>	<b>PPM, SBUS, SERIAL, MAVLink</b>
<b>Battery</b>	<b>4S Li-ion 5.2Ah (Parallel Ports for 10.4Ah or more)</b>
<b>Flight Controls</b>	<b>HOTAS (Hands on Throttle and Stick) Layout</b>
<b>Flight Joystick</b>	<b>APEM 55™ Hall Effect - 3-AXIS / 2-Top Button</b>
<b>Throttle</b>	<b>Delrin Machined Precision Slider</b>
<b>AUX Joystick</b>	<b>2-AXIS Payload &amp; Gimbal Controls w/Dial</b>
<b>Switch Array</b>	<b>6-POS/3-POS/2-POS/Guarded/Button/Rotary</b>
<b>Embedded PC</b>	<b>OnLogic™ Intel Comet Lake i5, i7, i9 Quad</b>
<b>Wireless</b>	<b>Intel 8260 M.2 Wi-Fi/AC, Bluetooth 4.0, vPro</b>
<b>Peripherals</b>	<b>Integrated Keyboard &amp; Multi-Gesture Trackpad</b>
<b>Case</b>	<b>Pelican™ 1510 (22" x 13.81" x 9") L x W x D - 28LBS</b>
<b>Color</b>	<b>Midnight Black - Desert Camo - Hunter Green</b>

# COLLAPSIBLE RUGGED FIELD STAND

- Sturdy, light, and tough, our custom fully collapsible Field Stand is now available!



AVAILABLE IN DESERT GOLD & MIDNIGHT BLACK

Designed by the highly skilled Desert Rotor team in collaboration with our world class clients we bring you our latest field accessory. Heavy duty 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.

\*Units shown may vary slightly to the production version.

[www.DesertRotor.com](http://www.DesertRotor.com)

# 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

[www.DesertRotor.com](http://www.DesertRotor.com)



Starting at **\$8,200 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

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.

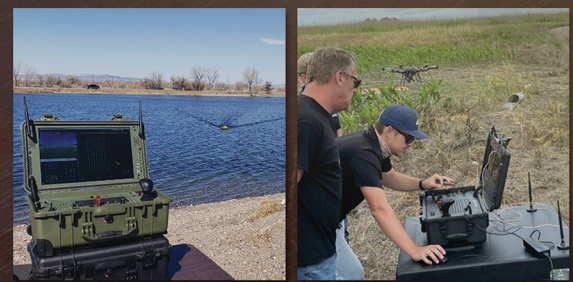
	Options & Pricing	add
<b>*Analog Communications</b>	868/915MHz TBS Crossfire™ - Air & Ground	\$350
	RFD900X Radio Modem Set - Air & Ground	\$300
	Adapter Dock & FTDI for RFD900X	\$250
	GCS PPM Signal Cable to Radio	Included
<b>*IP Digital Communications</b>	2.4GHz MIMO 2x2 Picoradio™ - Air	\$850
	2.4GHz MIMO 2x2 Microhard™ - Ground	\$750
	Picoradio Cable Kit w/Serial to SBUS Converter	\$200
	4G/LTE Microhard™ Cellular Radio - Ground	Ask For Price
	SkyHopper LTE/Combo	Ask For Price
	900MHz/Triband Picoradio™ MIMO Nx	Ask For Price
Sky-Drones SmartAP AIRLink	Ask For Price	
<b>Video Communications</b>	Airborne Innovations Picocamera	\$500
	Clearview HD Direct Video System	Ask For Price
<b>Antennas</b>	868/915MHz TBS Diamond for Crossfire™	\$30
	2.4GHz Pepperbox Antenna for Microhard™	\$150
	2.4GHz RHCP Antenna for Picoradio™	\$50
	Airborne Innovations Tracking Antenna	Ask For Price
<b>Field Accessories</b>	Field Stand	\$2,200
	GCS Panoramic Displays	\$2,200
<b>Batteries</b>	2x Li-ion 4s 5,200mAh (In Parallel)	\$300
	Upgraded 2x Li-ion 4s 6,600mAh (In Parallel)	\$450
<b>Charger</b>	14.8V/1.8A (UL-CE) Li-ion Charger	Included
<b>Power Supply</b>	18V/6A (UL-CE) Power Supply	Included

Embedded PC	Processor	RAM	GB	OS	GPU	Price
Intel Comet Lake	Core i5	8GB	256GB	Win10	Intel UHD 630	\$1,600
Intel Comet Lake	Core i7	16GB	512GB	Win10	Intel UHD 630	\$2,000
Intel Comet Lake	Core i9	16GB	512GB	Win10	Intel UHD 630	\$2,400

\*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](http://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

 Visit: [www.desertrotor.com](http://www.desertrotor.com)

 E-mail: [info@desertrotor.com](mailto:info@desertrotor.com)

 Call us: [888.938.8470](tel:888.938.8470)



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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