

ISK-RS High Altitude Reconnaissance Vehicle



Specifications:

Top Speed (no payload)	190 mph (306 kph)
Top Speed (with payload)	161.5 mph (260 kph)
Max Range (with payload)	994 miles (1,600 km)
Ceiling (with payload)	31,000 feet (9448 m)
Wingspan	65.6 feet (20m)
Length	36 feet (11m)
Max Climb rate (with payload)	740 ft/min (3.75 m/s)
Payload Capacity.....	2,300 lbs. (1043 kg)
Fuel Capacity.....	500 gallons (1892.7 L)
Thrust.....	740 shaft Horsepower
Endurance (with payload)	25 Hours
Crew (remote).....	Two (pilot and sensor operator)

- Various types of payloads can be integrated
- Jamming Capabilities
- Carbon Fiber & Composite Constriction
- HD Camera with Recording
- Long Flight time
- High Altitude operation
- LiDAR Terrain Mapping

PLEASE CALL AND TALK TO A CUSTOM SOLUTIONS EXPERT FOR YOUR NEEDS.

PHONE: 586-212-5914 - EMAIL: SALES@CQTUSA.COM - CQT CORPORATE HEADQUARTERS, 50485 UTICA DRIVE SHELBY TOWNSHIP, MI 48315

CQTWEAPONSYSTEMS.COM

ISK-RS High Altitude Reconnaissance Vehicle



ISK-RS Highlights:

Autonomous, Semi-Autonomous and Manual flight modes, Programmable Missions with 3D Waypoints, Live Streaming with Recording, HD Camera – Live Thermal, Stabilized Gimbal, Object tracking, Joystick based Pan, Tilt & Zoom control. Electro-Optical Sensors with multi-spectral capability (visible light and infrared). Adaptive Altitude based on ground elevation, 994-mile range. and inertial guidance to improve accuracy and location-finding in adverse conditions. Transmission of target coordinates to GCU

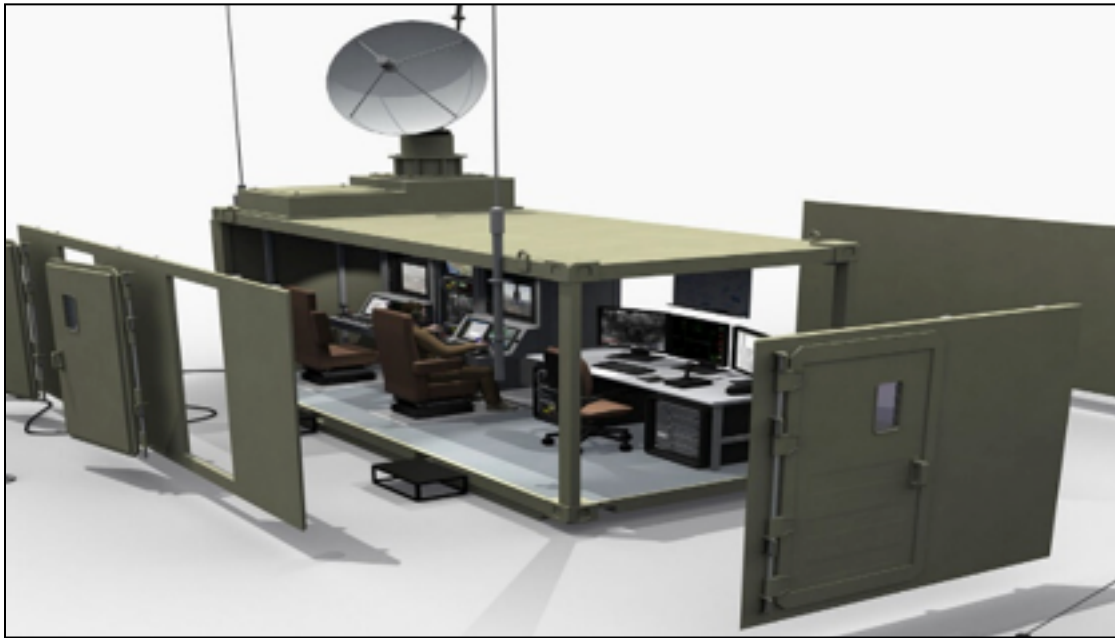
Satellite Connectivity. Use for long duration ISR missions.

AES encryption.

ISK-RS Cameras

- Electro Optical Sensors
- 1080P 60FPS full HD video streaming and up to 360X zoom
- Fast Frame Rate
- 2-axis gyro-stabilized gimbal
- Onboard object tracking module
- Geo- Referencing: GPS Coordinates can be read it from photo EXIF file.
- Quick Release from Fuselage
- Less than 1 second Auto Focus
- Low Noise, High sensitivity
- Thermal sensitivity < 50mK
- Vibration proof frame
- Operational temperature range: -40 to +50°C

ISK-RS Ground Control Station



The CQT Weapon Systems Remotely Piloted Aircraft (RPA) cockpit housed in either a customer-furnished building or a mobile shelter and used to control one ISK-RS drone & give a comprehensive picture of the battlespace. Its is set up primarily for remote operations via a Satellite Communications (SATCOM) data link. Ground-based radios can also be used.

Features:

- 11 HD Displays which include:
 - Map Tracker Display
 - Head-up Display
 - Head-down Display
 - Auxiliary Displays
 - Common Center DisplayMonitors are adjustable for better viewing angle
- Intercom/Radio systems
- Adjustable Rudder/ Brake Pedals
- Adjustable seats
- Fighter Aircraft style Joysticks or Game controller options
- Line of Sight (LOS) and SATCOM Data Links
- Network TCP/ IP Data and Video, High Definition
- Digital Flight Recorders (DFR)
- Electronic Checklists
- Flight Planning
- Mission Planning & Management
- Custom Displays can be added & reconfigured
- Surge Protection
- Gasoline or Diesel Generator option

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ISK-RS Maintenance Container

Features:

- 80 Gallon Air Compressor
- Generator
- Welder
- Bench Sander
- 4 Airline hookups
- All required specialty tools to completely Service / Disassemble the ISK-RS entirely
- Electronic Service Kits - Connector, boards, wiring, fuses, Solder etc..
- Wheel change toolkit
- Fiberglass / Composite repair kit – Airframe, Carbon fiber, Epoxy Resins
- Engine service kit
- Mechanical kit – Sockets, wrenches, Allen keys, Trox bits, breaker bars.
- Avionics calibration and repair kit
- Noise Filter Evaluation kit
- Landing gear service kit
- Small Spare hardware kit
- Torque Wrenches
- Cylinder base nut wrenches
- Valve spring compressor
- Brake bleed kit
- Gas Detection kit
- Engine Diagnostic tool
- 1 Desktop
- 1 Laptop
- Antistatic Floors
- LED Lighting
- Camera maintenance kit
- Drip pans
- Wheel chocks
- Tension meter / cable cutters /crimpers
- LAN & Data Net Toolkit
- Fiber-Optic Kit
- Electromechanical Service kit
- Safety wire spool /tools
- Drills / Rivet Nut tools
- Impact guns / Pneumatic tools
- Service stand / Dolly / stands /Tug
- Work Benches
- Tool chests for all tools
- Fuel tester
- Fluid pumps /gauges
- Lubricants / fluids Cabinet
- Magneto Synchronizer
- Pressure tester
- High voltage cable tester
- Spark plug Cleaner Tester – Dual Voltage
- Thermometer
- Fire extinguishers / Gloves / PPE /Cleaning

ISK-RS Spare Parts Container

Container Includes:

- 6 spare tires and wheels
- 5 extra sets of brakes
- Landing gear components: 6 Axles and nuts, 6 Dampers
- Wheel bearings
- Extra set of ailerons and rudders
- Spare engine, spark plugs, belts, fluids, pumps, generator, 1 Power supply, 2 Power converters, 2 voltage regulators
- 10 Fuel and air filters
- 1 Spare Propellor
- 2 extra Pitot tubes and sensors
- 2 Extra Processors, sensor set, 2 autopilot modules, Hardware for re-installation
- O-rings, gaskets, gears, valves
- Gyros, sensors, avionics
- Wing spars
- Servos
- Batteries
- Lights
- Cables
- Wires, connectors, sensors, Coax Assemblies, Battery cables
- 2 Cameras, Antennas
- Cooling system components: fans, lines, hose clamps
- Hardware for Airframe: Bolts, Nuts, Washers, Thread locker, Ducting
- 1 Engine preheater unit
- Circuit breakers
- Relays