AEROSPACE ENGINEERING MADE IN GERMANY

Coastline and border areas are not always as peaceful as you want it to be. Threats and conflicts are a reality, and they can occur anywhere at any time.

Timely installation and cost-effective modifications are always required for mission aircraft, which is rapidly deployed or safely operated in remote areas.

Omnia ISR

Omnia ISR Aircraft is designed as the most affordable aerial Intelligence Surveillance Reconnaissance platform.

Maximum 25.000 ft Operating altitude

Per mission 10.000 square km Scan area

790 NM Range

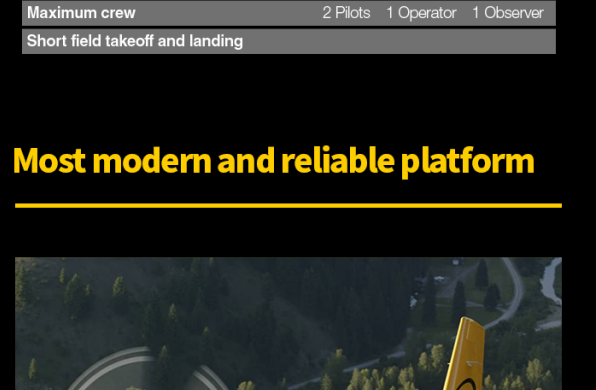
6 hours Endurance

Up to 2 pilot+1 Operator+1 Observer Crew member

Specification and Performance

MISSION EQUIPMENT	EQUIPMENT	PURPOSE
Ku- or X-Band Radar	IEOAS SH-I0YM5H-3000M	Multi-purpose radar (SAR / GMTI, SAR, GTRP, MAT, IMAG, MTI)
EO/IR Camera	Trakka TC-300	EO/IR camera for target surveillance system
Data Link	Pentacom DataLink	Data link for communication with ground station
	Leica HLm	Based laser range finder
SatCom	Honeywell SkyConnect	Long distance telecommunication
INS/GPS	Novatel SPAN CPT7	Mission navigation/reference system
Mission Software	MACom MOSE	Single person operated mission SW
Life raft	4 Pax, survival kit	Light weight life raft for maritime operation

* Tailored equipment selection is available

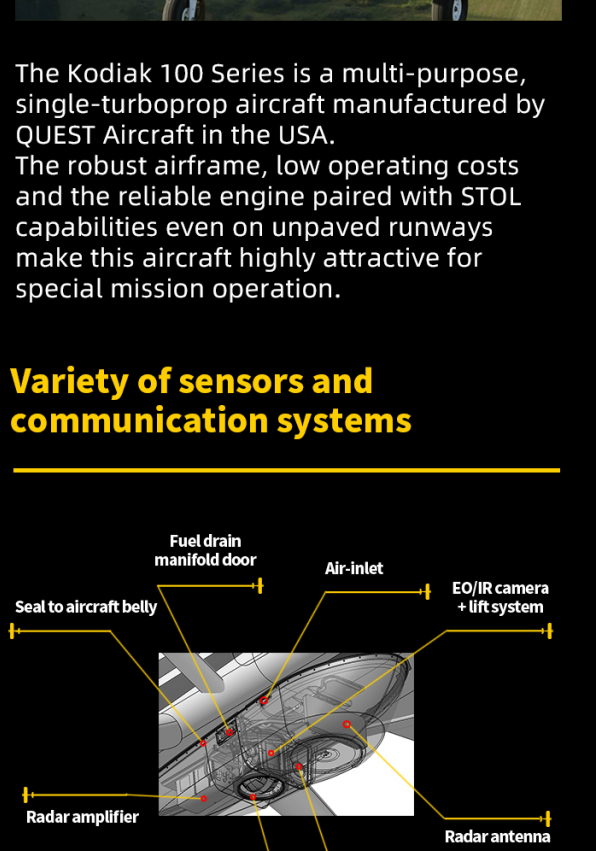


	taxiy	mission flight time	taxiy	
	30.6min	4.8h	38.6min	45min
	100NM	590.6NM	100NM	100NM
	209.7lb	1182.0lb	193.7lb	

	TIME
	DISTANCE
	CONSUMED FUEL

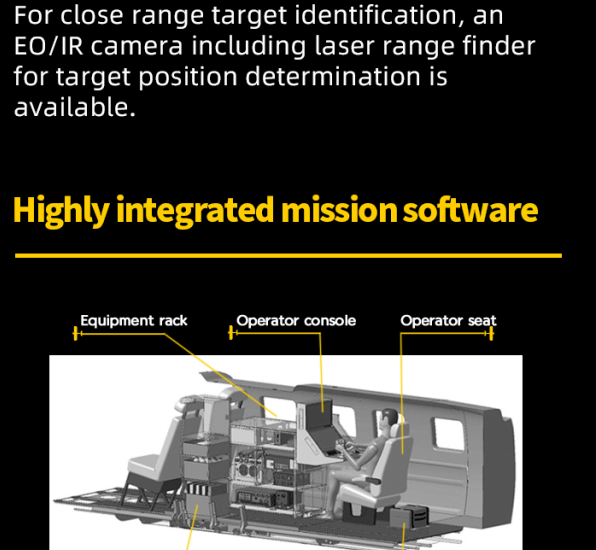
Maximum takeoff weight	7255 lbs
Maximum operating altitude	25,000 ft
Maximum operating speed	182 KIAS
Minimum crew	1 Pilot 1 Operator
Maximum crew	2 Pilots 1 Operator 1 Observer
Short field takeoff and landing	

Most modern and reliable platform



The Kodiak 100 Series is a multi-purpose, single-turboprop aircraft manufactured by QUEST Aircraft in the USA. The robust airframe, low operating costs and the reliable engine paired with STOL capabilities even on unpaved runways make this aircraft highly attractive for special mission operation.

Variety of sensors and communication systems



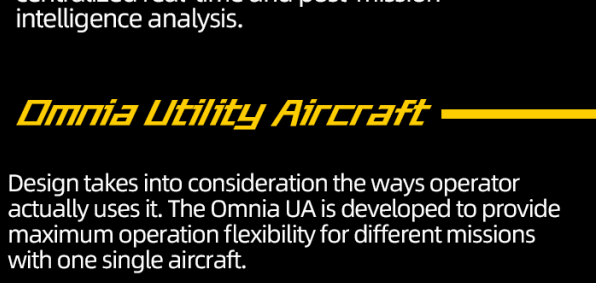
For target detection and recognition the multi-functional radar provides wide area search (WAS) as well as moving target indication (MTI) and SAR-imaging functionalities.

For close range target identification, an EO/IR camera including laser range finder for target position determination is available.

Highly integrated mission software

The Omnia ISR mission system is powered by a customized highly integrated software, which is flexible for different sensors and communication system selections. The mission software provides maximized mission efficacy.

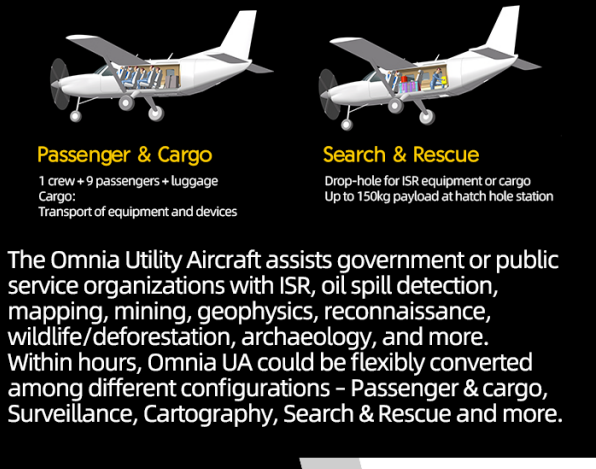
Ground mission operation center



With the help of comprehensive broadband data link system, mission data and message including image and video transfers among fleet and mission operation center, which allows centralized real-time and post-mission intelligence analysis.

Omnia Utility Aircraft

Design takes into consideration the ways operator actually uses it. The Omnia UA is developed to provide maximum operation flexibility for different missions with one single aircraft.



The Omnia Utility Aircraft assists government or public service organizations with ISR, oil spill detection, mapping, mining, geophysics, reconnaissance, wildlife/deforestation, archaeology, and more. Within hours, Omnia UA could be flexibly converted among different configurations - Passenger & cargo, Surveillance, Cartography, Search & Rescue and more.

Omnia Utility Aircraft Surveillance

Installation of retractable 20" - class EO/IR camera gimbal

Omnia Utility Aircraft Cartography

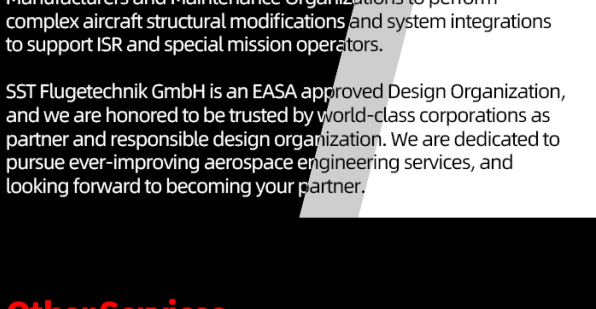
Belly hatch hole in the aft fuselage that can be opened and closed by a automatic sliding door.

Operator console in the forward cabin area is available for mission control purpose.

Omnia Utility Aircraft Passenger & Cargo

Flexible cockpit layout to meet different mission needs

Omnia Utility Aircraft Search & Rescue



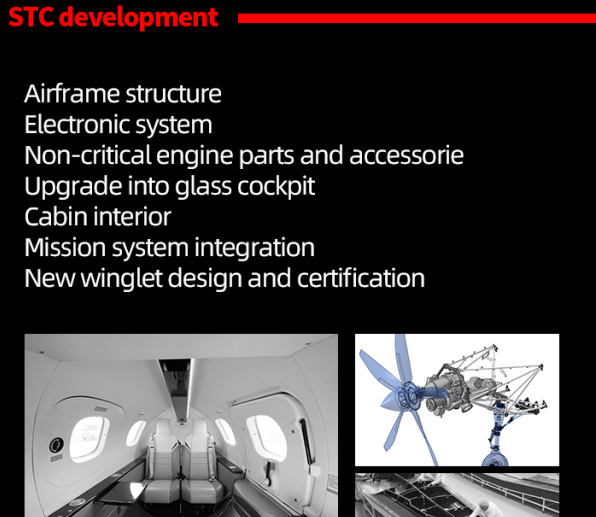
Well-designed cabinet for search equipment, and belly hatch hole for dropping emergency supplies.

SST Flugtechnik GmbH provides EASA approved aircraft modifications design solutions for special mission, aerial mapping, aerial photography, avionics and specific applications. SST Flugtechnik is trusted by customers including public services providers and government contractors in Asia, Africa and Latin America nations. Our in-house experts team design, and collaborate with our partners including Original Equipment Manufacturers and Maintenance Organizations to perform complex aircraft structural modifications and system integrations to support ISR and special mission operators.

SST Flugtechnik GmbH is an EASA approved Design Organization, and we are honored to be trusted by world-class corporations as partner and responsible design organization. We are dedicated to pursue ever-improving aerospace engineering services, and are looking forward to becoming your partner.

Other Services

TC development

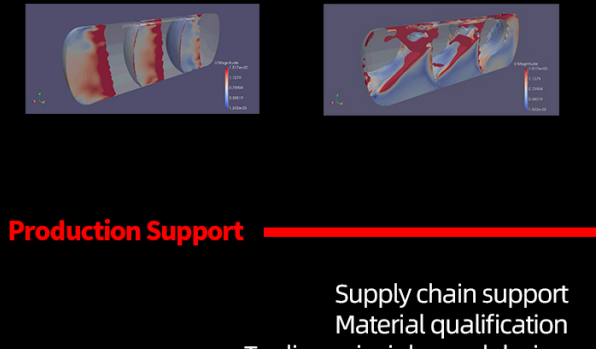


Type Certificate Holder for the EA500
Ensuring continued airworthiness for the EA500
Supporting the TC owner to setup production line
Post-TC development and certification

STC development

- Airframe structure
- Electronic system
- Non-critical engine parts and accessorie
- Upgrade into glass cockpit
- Cabin interior
- Mission system integration
- New winglet design and certification

ETSO Development and Certification



For many production organizations, a European Technical Standard Order means a new and bigger market. Having a partner design organization, taking care of design and certification, enables manufacturers to better focus on production and sales when development cost and risk are well contained.

Each ETSO development and certification project is unique. Our design engineers are always ready to create something completely new to the market.

Production Support

Supply chain support
Material qualification
Tooling principles and design
Design for manufacture
Production set-up
Machinery and equipment selection

SST FLUGTECHNIK GmbH
Am Flughafen 12a
D-87766 Memmingerberg
www.sst-flugtechnik.com
info@sst-flugtechnik.com

Twitter Website 微信WeChat