



BROCHURE

# DeltaQuad Evo **Government Edition**

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DeltaQuad Evo Government Edition VTOL UAV is a state-of-the-art unmanned aerial vehicle designed for government applications.

It features cutting-edge technology and advanced features that make it ideal for a range of missions, including reconnaissance, surveillance, and target acquisition. The following product sheet provides a comprehensive overview of the various configurations available.

# DeltaQuad Evo Editions

## Tactical

Evo Tactical edition is designed for tactical use with a wide range of anti-interference systems. It is equipped with MANET Interference Avoidance enabled S-BAND radio with up to 80 km range, a 4 array CPRA Anti-Jamming GPS, and a stealth switch system that allows full autonomous navigation without any radio emissions. The Advanced Data Safety software (ADS) prevents data disclosure of critical data even with physical access to the vehicle.

## Government

Evo Government edition has been specifically designed for governmental agencies. The product is intended for deployment in environments where interference with radio or satellite navigation is not anticipated. Its key features include an S-BAND radio system with up to 80 km range, toughbook ground control, and ATAK compatibility, which enhance the effectiveness of government operations.









## Stealth

Evo Stealth Edition VTOL UAV is a state-of-the-art unmanned aerial vehicle designed for covert applications. It is specifically designed for "Deploy & Forget" missions equipped with the Aerial Payload Deployment System (APDS).

## Enterprise

Evo Enterprise edition is designed for civilian and semi-government use. It operates based on the DeltaQuad Controller on the world-wide license free 2.4GHz band and offers radio options up to 30 km range.

## Product comparison

	Evo <b>Enterprise</b> DQEVO-ENT	Evo <b>Government</b> DQEVO-GOV	Evo <b>Tactical</b> DQEVO-TAC	Evo <b>Stealth</b> DQEVO-STH
<b>Max. flight time</b>	272 min	255 min	246 min	255 min
<b>Max. flight range</b>	270 km/ 168 mi	254 km/ 158 mi	246 km/ 153 mi	254 km/ 158 mi
<b>Max. radio range</b>	30 km	80 km	80 km	30 km
<b>Ground control</b>	DeltaQuad controller	Panasonic Toughbook	Panasonic Toughbook	DeltaQuad controller
<b>Radio options</b>	DQ 2.4 GHz	Silvus 2.2-2.5 GHz	Silvus-IA 2.2-2.5 GHz	DQ 2.4 GHz
<b>GNSS system</b>	L1/L2 GPS	L1/L2 GPS	Anti-Jamming L1 GPS	Anti-Jamming L1 GPS
<b>ATAK compatible</b>	-			
<b>ADS Software</b>	-	-		
<b>Stealth switch</b>	-	-		
<b>Interference Avoidance</b>	-	-		N/A
<b>Inertial Navigation</b>	Return home	Return home	Resume mission	Resume mission

# Evo Government Airborne options



## Evo Government **includes**

SKU: DQEVO-GOV-1

- DeltaQuad Evo Government edition
- 4 batteries
- Dual battery charger
- Flight case
- Auxiliary battery mount
- Auterion Government Stack Avionics
- Silvus StreamCaster 4240 4W S-BAND Air unit

## Auterion Government Stack

DeltaQuad Evo Government Edition is outfitted with the Auterion Government Stack Avionics. This advanced software suite was specifically designed for tactical use and offers the following features.

✓ **ATAK/Cursor on target integration**  
Using the standardized Team Awareness protocol, Auterion Government Stack Avionics can seamlessly integrate into ATAK based systems.

✓ **GPS denied inertial navigation**  
Auterion Mission Control (Government Edition) is capable of sustaining flight through GPS denied environments. Without additional EW features, the vehicle is capable of 'dead-reckoning' home when GPS signals are unavailable or jammed.

# Evo Government

## Key platform specifications

### Physical

<b>Wingspan</b>	269 cm
<b>Length</b>	75 cm
<b>Empty weight</b>	6.8 kg
<b>Max takeoff weight</b>	10 kg
<b>Payload bay</b>	1× 20×20×11 cm or 2× 10×20×11 cm
<b>Payload capacity</b>	3 kg (single battery) 1 kg (dual battery)
<b>Airframe material</b>	Fiberglass, Carbon, Kevlar and composite

### Performance

<b>Cruise speed</b>	15.5 - 18 m/s
<b>Max speed</b>	24 m/s
<b>Max flight time</b>	255 min
<b>Max flight path</b>	254 km/ 158 mi
<b>Service ceiling</b>	4.000 m/ 13.000 ft
<b>Operating temperature</b>	-20 to +45 °C
<b>Max wind</b>	14 m/s
<b>Max precipitation</b>	7 mm per hour
<b>Ingress Protection</b>	IP54

### Performance calculator

Maximum flight time and range vary with conditions and payload configuration. For a better estimate of performance please use the [DeltaQuad Evo Performance Calculator](#).

# Options

## Transmission, control, and payloads

Thanks to Evo's modular design, we can offer you multiple ground transmission and payload options tailored to your specific needs.

The Evo offers a transmission and control system that includes three essential components: a radio modem, an antenna, and a ground controller. These components enable the operator to communicate with the drone, control its movements, receive video feeds, and monitor its status.

### TRANSMISSION

## Radio



### Silvus StreamCaster

SKU: DQEVO-DDL-SSC-1

- S-BAND 2.2 - 2.5 Ghz
- 2 x 2 MIMO
- 4 Watt output power
- 20/10/5 Mhz bandwidth
- DES56/AES256 encrypted
- Rugged Handheld

## Antenna options



### Silvus Tripod mounted sector antenna

SKU: DQEVO-SV-SPA1

- Up to 40km ISR range extension
- 120 degree Horizontal Field of View
- 12 degree Vertical Field of View
- 12 dBi 2.2 - 2.5 Ghz

Requires DQEVO-DDL-SSC-1 for standard operation



### Optimum Solutions Automatic tracking pedestal

SKU: DQEVO-OS-PT-10

- Up to 80KM ISR range extension
- Rugged transport cases

Requires DQEVO-DDL-SSC-1 for standard operation

## CONTROL

### Ground control options



#### DeltaQuad Toughbook GCS

SKU: DQEVO-GCS1-TB

Fully configured MIL-STD ruggedized touchscreen laptop with camera control joystick. Based on the Panasonic TOUGHBOOK FZ-55 Touch with magnesium chassis, flexible configurations and universal bay. The handheld controller enables manual override and precision landing.

Auterion Mission Control (Government Edition) comes pre-installed.



#### Auterion Skynav

SKU: DQEVO-GCS2-SN

Auterion Skynav is a lightweight handcontroller that makes it easy to manage autonomous flights, live video streaming, and data collection. Its operator-friendly design reduces the controls and data needed for mission planning and deployment. A ruggedized, IP65 rating, and water-resistant design makes Skynav the ideal controller to accommodate any mission.

Auterion Mission Control (Government Edition) comes pre-installed.

## PAYLOAD

### Sensor and device options

The DeltaQuad Evo is fitted with two payload slots, capable of accommodating either two single-slot payloads or a dual-slot payload. The single-slot payloads can be paired with an auxiliary power system to extend flight endurance. The platform

features a standardized mounting system that facilitates future expansion. Individual payloads can be procured and are compatible with all DeltaQuad Evo variants.

Please contact us for an overview of all payload systems currently in the development and testing stage.

**I** single slot

**II** dual slot



#### Nextvision Raptor 360

SKU: DQEVO-PL-NVR1

- RGB 80x zoom (40x optical, 2x digital)
- Thermal 1280x720
- Object tracking and following
- Trip-2 Camera Computer



#### DeltaQuad Aerial payload deployment system

SKU: DQEVO-PL-APDS1

- Mission controlled payload deployment
- Payload capacity 2500 gr
- Max payload dimension 200x180x90 mm

# Evo Government Field deployment kits

For standardized field deployment the following kits are available.

The kits are fully operational and contain all required components for direct field deployment. The kits are issued with two airborne units, one payload selection and a single ground control unit. Both airborne units can be controlled from the ground control unit. They can not be deployed simultaneously.

## Government Kit 1

DQEVO-FDK-GOV-1

40KM OPERATIONAL RANGE



DeltaQuad  
Evo



Nextvision  
Raptor 360



Aerial **payload**  
deployment system



DeltaQuad  
Toughbook GCS



Silvus  
StreamCaster



Tripod Mounted sector  
antenna

## Government Kit 2

DQEVO-FDK-GOV-2

80KM OPERATIONAL RANGE



DeltaQuad  
Evo



Nextvision  
Raptor 360



Aerial **payload**  
deployment system



Auterion  
Skynav



DeltaQuad  
Toughbook GCS



Silvus  
StreamCaster



Automatic  
tracking pedestal

# Evo Government

## Onsite training

Field Deployment Kits are best combined with onsite training.

Onsite training is offered as an optional enhancement to your operational capabilities, though not required. Our instructional program and materials will be tailored to meet your specific needs, and a certified trainer will deliver the training at your facility if requested.



### Onsite **installation** and training

SKU: DQEVO-OST-1

- Flight training
- Ground control setup
- Payload operation
- ATAK operation
- Handoff operation
- Maintenance training

The training covers all aspects of setup, handling, and maintenance of the equipment, providing a comprehensive learning experience. However, for basic operation, online training is usually sufficient and readily accessible. The choice between onsite and online training is yours to make, and either option will support your operational readiness.