



BROCHURE

# DeltaQuad Evo **Stealth Edition**

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

It features cutting-edge technology and advanced features that make it ideal for a range of missions that require principal secrecy. The following brochure 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

DeltaQuad 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 Stealth

## Airborne options



### Evo Stealth **includes**

SKU: DQEVO-STH-1

- DeltaQuad Evo Stealth Edition
- 4 batteries
- Dual battery charger
- Ruggedized transport case
- Auxiliary battery mount
- DeltaQuad Evo controller
- Auterion Tactical Stack Avionics
- Stealth switch
- 4 array CPRA Anti-Jamming GPS

## Auterion

### Tactical Stack Avionics

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

#### ✓ **ATAK/Cursor on target integration**

By leveraging the standardized Team Awareness protocol, the Auterion Tactical Mission Control is seamlessly integrated into ATAK-based systems.

#### ✓ **Advanced data safety features**

The Enhanced Data Safety Features provided by Auterion Tactical Mission Control prevent the mission, objective, source and destination from being disclosed. Even if a third party physically breaches the system, the data remains protected from disclosure.

#### ✓ **GPS denied inertial navigation**

Auterion Tactical Mission Control can sustain flight in GPS-denied environments. With the added capabilities of the Anti-Jamming GPS, the vehicle can maintain its course during periods of GPS loss under extreme jamming conditions. This allows the vehicle to operate in environments under extreme EW effects.

#### ✓ **Stealth switch**

Through Auterion Tactical Mission Control, the stealth switch enables the planning of missions with predefined stealth operation sections. During such sections, the vehicle will disable all radio emissions to evade detection. It will execute the stealth phase autonomously and then reconnect with the operator at a designated point in the mission.

# Evo Stealth

## 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

## Ground transmission and payloads

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

The transmission and control system enables the operator to communicate with the drone, control its movements, receive video feeds, and monitor its status. Evo's two payload slots can accommodate either two single-slot payloads or a dual-slot payload.

### TRANSMISSION



#### DeltaQuad Controller

SKU: DQEVO-DCGCS-50-2

- 30 km transmission range
- 800MGz/ 1.4GHz/ 2.4GHz operating frequency
- 23dBm@CE/FCC

Auterion Tactical Mission Control comes pre-installed.

### PAYLOAD

**I** single slot

**II** dual slot

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 Evo variants. Please contact us for an overview of all payload systems in development.



#### **II** APDS: Aerial payload deployment system

SKU: DQEVO-PL-APDS1

- Mission controlled payload deployment
- 2500 grams payload capacity
- 200x180x90mm max. payload dimension
- Maximum flight range 110 km



#### **II** APDS with an auxiliary battery

SKU: DQEVO-PL-APDS1-AUX

- Mission controlled payload deployment
- 900 grams payload capacity
- 100x180x90mm max. payload dimension
- Houses an auxiliary battery for extended flight time
- Maximum flight range 229 km



#### **I** Nextvision Nighthawk2-UZ

SKU: DQEVO-PL-NVUZ1

- RGB 40x zoom (20x optical, 2x digital)
- Thermal 1280x720
- Object tracking and following
- Trip-2 Camera Computer



#### **I** Nextvision Raptor 360

SKU: DQEVO-PL-NVR1

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

# Evo Stealth

## Field deployment kit

For standardized field deployment the following kit is available. It is operationally complete, with all necessary parts for immediate deployment.

The kit contains an airborne unit, Aerial Payload Deployment System with an auxiliary battery, and one ground control unit. Field Deployment Kits can be augmented with additional options upon request.

### Stealth Kit

DQEVO-FDK-STH-1

30KM OPERATIONAL RANGE



DeltaQuad  
**Evo**



**APDS:** Aerial payload deployment system



**APDS with an Auxiliary battery**



**DeltaQuad Controller**

# Evo Stealth

## Onsite training

Field Deployment Kits are best combined with onsite training.

Onsite training is offered as an optional enhancement to your operational capabilities. 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.