

# aertos300

## BLADED INSPECTION DRONE

The **AERTOS 300** drone from Digital Aerolus combines versatility and ruggedness. With approximately 23 minutes of flight time, you can confidently accomplish your inspections in any environment - including areas where GPS signals are unavailable or unreliable.

# aertos™

POWERED BY DIGITAL AEROLUS

Proprietary FGC™ flight software produces stable flight in GPS-denied spaces.

Rugged manufacturing standards including carbon fiber frame and components make the **AERTOS 300** an ideal and durable tool for harsh environments.

Deploy the **AERTOS 300** into spaces with significant access or interference challenges to improve mission safety, lower costs, increase efficiency, and protect your workers.

Includes a true photogrammetry-grade electro-optical imaging system that tilts 180° for an unobstructed view of the target.

### USES

- Underground Mines
- Under-Bridge Inspections
- Communication Towers
- Large Culverts and Tunnels
- Power Lines
- Tanks & Stacks

### FEATURES

- Open-Bladed Design with Optional Guards
- Rugged carbon fiber frame
- Rapid-on deployment
- Two integrated EO Sensors
- 2-axis gimbal with 180° of vertical motion
- Supports Dual Displays
- Does not require GPS
- Resistant to electromagnetic interference



## AIRCRAFT

Model	Aertos 300
Weight	5.73 lbs (2600 g)
Max Angular Velocity	Pitch: 150°/s Yaw: 150°/s
Max Ascent Speed	17 ft/s (5 m/s)
Max Descent Speed	Vertical: 17ft/s (5 m/s)
Max Flight Time	Approx. 23 min (No prop guards) (Hovering at sea level with no wind)
Operating Temperature	-4° to 104° F (-20° to 40° C)
Diagonal Distance	23.5 inches (596.5 mm) edge to edge

## BATTERY

Model	TA - 256-4500 - 651P-YT60
Net Weight	1.43 lbs. (650 g)
Minimum Capacity	4500 mAh
Configuration	GSIP/22.2V
Discharge Rate	25 C
Max Burst Discharge Rate	50 C
Dimensions	5.43 inches x 1.67 inches x 2.05 inches (138 mm length x 42.5 mm width x 52 mm height)

## IMAGING SYSTEMS

Main Camera	VIRB Ultra 30	
	Video	HDMI 1080p
	Photo	12 megapixels
	Video provided via wireless link to user and stored on internal micro SD card	
Still images stored on micro SD card		
FPV Camera	Composite resolution Super Wide Dynamic RAange	

## REMOTE CONTROLLER

Model	DA 62-000003
Operating Frequency	2.400-2.483 GHz 5.725-5.850 GHz
Max Transmitting Distance (unobstructive, free of interference)	2.4 GHz: FCC: 4.3 miles (7 km); CE: 2.2 miles (3.5 km); SRRC: 2.5 miles (4 km); MIC: 2.5 miles (4 km); 5.8 GHz: FCC: 4.3 miles (7 km); CE: 1.2 miles (2 km); SRRC: 3.1 miles (5 km); MIC: - ;
ERIP	2.4 GHz: FCC: 26 dBm; CE: 17 dBm; SRRC: 20 dBm; MIC: 17dBm; 5.8 GHz: FCC: 28 dBm; CE:14 dBm; SRRC: 20 dBm; MIC: - ;
Video Output Ports	USB, HDMI, Dual display support
Power Supply	Built-in battery
Charging	Included charger
Dual User Capabilities	Host-and-Slave connection
Mobile Device Holder	Tablet or Smart phone
Max Mobile Device Width	6.69 inches (170 mm)
Output Power	9 W (without supplying power to Smart Device)
Operating Temperature	-4° to 104° F (-20° to 40°C)
Storage Temperature	Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)
Charging Temperature	32° to 104° F (0° to 40° C )
Battery	600mAh:LiPo
USB Supply Power	iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)

## INCLUDED

- Aertos 300
- Garmin VIRB Ultra 30 Camera
- Remote Controller
- (3) Batteries
- iPad WiFi 9.7
- Battery Charger
- Prop Guards
- Travel Case
- FPV Flight Camera
- Extra Blades

