

# aertos120

## DUCTED INSPECTION DRONE

The flagship **AERTOS 120** from Digital Aerolus demonstrates multiple innovations that will change the way you use drones as tools in confined spaces and industrial environments where GPS signals are denied.

# aertos™

POWERED BY DIGITAL AEROLUS

Proprietary FGCT™ software produces stable flight in GPS denied spaces.

Rugged manufacturing standards including carbon fiber frame and components make the **AERTOS 120** an ideal UAV for harsh environments.

Deploy the **AERTOS 120** into confined spaces to improve mission safety, increase efficiency, and limit the time your workers spend in risky situations.

Includes a true photogrammetry-grade still frame imaging system with an unobstructed view of the target, plus separate and concurrent video camera sources.

### USES

- CONFINED SPACES
- SMALL CULVERTS
- TUNNELS
- ELECTRICAL VAULTS
- MANHOLES & SEWERS
- SMALL TANKS
- STACKS & TOWERS

### FEATURES

- DUCTED FAN PROPULSION
- RUGGED CARBON FIBER FRAME
- RAPID-ON DEPLOYMENT
- 2 INTEGRATED CAMERAS
- UNOBSTRUCTED CAMERA VIEW
- 2-AXIS GIMBAL
- 180° VERTICAL CAMERA CONTROL
- FPV CAMERA ON TOP OF UNIT
- 12 MEGAPIXEL CAMERA W/SEPARATE HDMI VIDEO
- SUPPORTS DUAL DISPLAYS FOR TWO-USER OPERATION
- DOES NOT REQUIRE GPS



## AIRCRAFT

Model	Aertos 120
Weight	5.95 lbs (2700 g)
Max Angular Velocity	Pitch: 150°/s Yaw: 150°/s
Max Ascent Speed	17 ft/s (5 m/s)
Max Descent Speed	Vertical: 17 ft/s (5m/s)
Max Flight Time	Approx. 8 min (hovering at sea level with no wind)
Operating Temperature	-4° to 104° F (-20° to 40° C)
Diagonal Distance	21 inches (533.4 mm) edge to edge

## BATTERY

Model	TA- 25C-4500- 6S1P-XT60
Net Weight	1.43 lbs. (650 g)
Minimum Capacity	4500 mAh
Configuration	6S1P/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 Range	

## REMOTE CONTROLLER

Model	DA 162-000003
Operating Frequency	2.400-2.483 GHz 5.725-5.850 GHz
Max Transmitting Distance (unobstructed, 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 120
- Remote Controller
- FPV Flight Camera
- iPad WiFi 9.7
- Garmin VIRB Ultra 30 camera
- (3) Batteries
- (2) Battery Chargers
- Travel Case
- LED Illuminator

