

aertos121

FIRST RESPONDER DRONE

The **AERTOS 121** drone from Digital Aerolus is designed to meet the specific needs of First Responders. It serves as a critical tool for police, fire, and defense professionals when seconds matter and durability counts.



aertos™

POWERED BY DIGITAL AEROLUS

The First Person View camera on the **AERTOS 121** drone becomes another set of eyes for first responders in potentially dangerous situations.

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

Rugged manufacturing standards including a carbon fiber frame and components keep your **AERTOS 121** reliable and dependable mission after mission.

The **AERTOS 121** FPV imaging system allows for safe piloting from a remote location.

USES

Assist in clearing active shooter situations

Inspect rooms in low light conditions

Survey structures to assist fire crews



FEATURES

Ducted fan propulsion

Rugged carbon fiber frame

Rapid-on deployment

High Dynamic Range FPV Camera

Does not require GPS

Resistant to electromagnetic interference



AIRCRAFT

Model	Aertos 121
Weight	5.51 lbs (2500 g)
Max Angular Velocity	Pitch: 300°/s Yaw: 150°/s
Max Ascent Speed	P - mode/A-mode: 16.4 ft/s (5 m/s) S - mode: 19.7 ft/s (6 m/s)
Max Descent Speed	Vertical: 13.1 - 29.5 ft/s (4-9 m/s) Tilt: 13.1 ft/s (4-9 m/s)
Max Flight Time	Approx. 12min (hovering at sea level with no wind)
Operating Temperature	-4° to 104° F (-20° to 40° C)
Diagonal Distance	23.8 inches (605 mm, Landing Mode) 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 - FPV	Composite Resolution Super Wide Dynamic Range
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REMOTE CONTROLLER

Model	DA 162-000003
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
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 121
- Remote Controller
- FPV Flight Camera
- LED Illuminator
- (2) Batteries
- (1) Battery Charger
- Travel Case

