



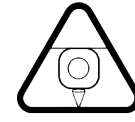
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VALIANT

**Quadcopter
Drone**



PT. PHOENIX INDOPACIFIC JAYA



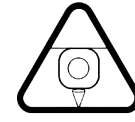
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Content

Preface	3
Product Description	3
Product Status and Specifications	4
Product Timelines	6
Competitive Overview	6
Production Ramp-up and Timeline	7



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Preface

The Valiant quadcopter drone is designed to be mass-produced, capable of carrying heavy payloads for long distances, protected from GPS jamming.

P-A combines 3D printing technology with a modular design for quick and easy assembly providing great mobility. It is versatile for single or multi-use missions, capable of operating in adverse weather conditions. Our swivel camera allows the user to navigate and target

with video for use-case flexibility. Our main production facility is located in Rzeszów, Poland and leverages an established supply chain with back-up suppliers in order to produce in volumes. We can customize and adapt the design to meet customer requirements.

Product Description

The Valiant quadcopter is designed and 3D printed to the specifications and needs of our customers.

The Valiant is 3D printed using industrial-grade filament making it **lightweight, yet powerful enough to lift 5+ kg for long distances.** It can be assembled within minutes to provide mission mobility. It comes equipped with long-range radio connectivity, a swivel camera, a payload release mechanism, folding propellers, and a an **INFINIDOME GPS ANTI-JAMMING DEVICE**



Product Status and Specifications

The Valiant has completed rigorous testing and is available for demonstrations, red-teaming, and ready for mass production.

Operation

Cruising Speed	61 km/h (38 mph)
Maximum Speed	97 km/h (60 mph)
Maximum Wind Speed	32 km/h (20 mph) steady, 45 km/h (28 mph) gusts
Standard Payload	2.5 kg (5.5 lbs)
Maximum Payload (<i>see note</i>)	5+ kg (11 lbs)
Maximum Takeoff Weight (<i>see note</i>)	13.5+ kg (30 lbs)
Ambient Temperature Range	-20°C to 35°C

Note on Maximum Payload

Payload greater than the listed Maximum Payload can be used, however, specifications including (but not limited to) cruising speed, maximum speed, maximum wind speed, maximum flight time, and maximum distance will decrease. Stability and safety of the aircraft is not guaranteed with a total takeoff weight greater than the listed maximum

Performance

Actual flight time and total achievable distance are dependent on wind, environmental conditions, and aggressiveness of flight. Higher wind speeds, precipitation, and frequent hard acceleration and braking maneuvers may shorten flight time and distance. Results may vary depending on chosen mission. One-way missions may increase ranges.

Maximum Flight Time, No Payload	50+ minutes
Maximum Flight Time, Standard Payload	30+ minutes
Maximum Flight Time, Maximum Payload	20+ minutes
Maximum Total Distance, No Payload	30+ km
Maximum Total Distance, Standard Payload	24+ km
Maximum Total Distance, Maximum Payload	12+ km

Command and Control

Number of Cameras	1 camera
Video	720p at 24 fps minimum, color
Camera Perspective	Pitch neutral and downward (swiveling range of +30° to -90°)
Radio Frequency	1.2-1.7 GHz or 1.98-2.7 GHz
Maximum Radio Range (<i>see note</i>)	30+ km
Radio Encryption	AES 128-bit or AES 256-bit

Note on Maximum Radio Range:

Radio range is dependent on drone operating altitude, weather conditions, height of the ground antenna, and terrain/obstacles.

Packing

Dimensions, Fully Assembled	110 x 110 x 50 cm
Maximum Battery Weight	4 kg (8.8 lbs)
Frame Weight, Without Battery	4.5 kg (10 lbs)



Competitive Overview

Phoenix Aerospace offers an unmatched value by combining volume manufacturing, lift and range capacity, video connectivity, GPS anti-jamming, produced locally at an affordable price.

→ MODULAR AND ADAPTABLE

Our modular design allows for the dynamic integration of new features and components, including avionics, software, and payloads. The Valiant is also available without markings.

→ MASS PRODUCTION

We leverage an established supply chain with multiple suppliers per component to quickly produce volumes in the hundreds and thousands. Our primary production facility is located in Rzeszów, Poland and we also produce at our facility in Wisconsin, USA.

→ MOBILITY

The Valiant can be carried in a backpack and assembled easily within minutes due to its removable arms, foldable propellers, and lightweight, portable design.

→ VERSATILITY

The Valiant can be sent on automated missions or be controlled by an operator, for single-use and multiple missions. It is resilient against GPS jamming and is capable of operating in adverse weather conditions and rugged environments.

→ AFFORDABILITY

P-A offers volume pricing discounts and flexible delivery options. Pricing provided upon request

→ LIFT AND DISTANCE

The Valiant can deliver heavy payloads and operate at long distances, and offers several

- key, base features:
- The swiveling camera allows the operator to navigate and view the terrain below using high-quality, stabilized, color video.
 - The payload release system allows the attachment and release of any package. It is highly reliable and easy to use.
 - The radio module allows for long distance command and control and is capable of forming mesh networks.



Production Ramp-up and Timeline*

The projected ramp-up plan for 1,000 drones in 120 days

	Total	by week
Month 1	100:	10, 20, 30, 40
Month 2	200:	40, 50, 50, 60
Month 3	300:	60, 75, 75, 90
Month 4	400:	90, 100, 100, 110
Total:	1,000	

We need a 3 to 4 week ramp-up time with our production facility in Rzeszow for training and to receive material and components from suppliers to begin the production schedule above. We can drop-ship/partial-ship on a continual basis and will produce as quickly as possible as allowed by the supply chain.

* Timeline is subject to change as suppliers adjust their lead-times. However, we will strive to meet our projection and produce as quickly as possible.



Ground Radio kit

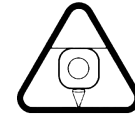
Includes cabling, battery equipment and a telescopic mast to attach ground antenna. A minimum of one ground radio is necessary for connectivity to the Valiant, however, number of ground radios is determined by the purchaser, as multiple Valiants can be operated from one ground radio.



UXV Technologies ground controller, purchased separately.



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