

PROPELLER DETAILS

QUADCOPTER FUNCTIONAL REQUIREMENTS

- Carry a Load of 500g and Below (1 Pint of Blood = 495g)
- Weigh 800g (frame = 454g, Components = 878g)
- Weight 1.83Kg (Drone & Payload = 1.83kg)
- Recharge Backup Battery Using Oscillatory Motion of Motors & Solar Frame panels.
- Autonomous
- 4 Hours of Flight Time
- Remotely Stream live feeds via Camera
- 360 Camera View Via Servo Motor
- Flight Height of 10ft
- Switch between Power Sources During Functional Flight Mode.
- Take Pictures and Video then send to the Cloud.

COMPONENTS

- Frame
- **Propeller**
- Motor
- Electric Speed Controller
- Flight Controller
- Power (Battery)
- Transmitter & Receiver
- Camera

PROPELLER

- A propeller is the most common propulsion device used in UAVs. It is composed of a number of blades that rotate around an axis to produce thrust by pushing air much like a fan does.
- The performance is determined by its geometry, and different propeller geometries are optimized to produce thrust.
- The Dimension of the Selected frame determines the type of propeller, the configuration of the selected Frame can only work with propellers within Range 9 – 12inch.
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Below is the Selected matching Propeller.

RAYCorp® 1045 10x4.5 Propellers. 8 Pieces(4 CW, 4 CCW) Black & Red High Quality 10-inch
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Features

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| <ul style="list-style-type: none">• Diameter: 10inches• Pitch: 4.5• Shaft Diameter : 6 mm• Weight: 10 grams• Material : High Quality ABS Plastic |
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RAYCorp® 1045 10x4.5 Propellers. (4 CW, 4 CCW) High Quality 10-inch.

