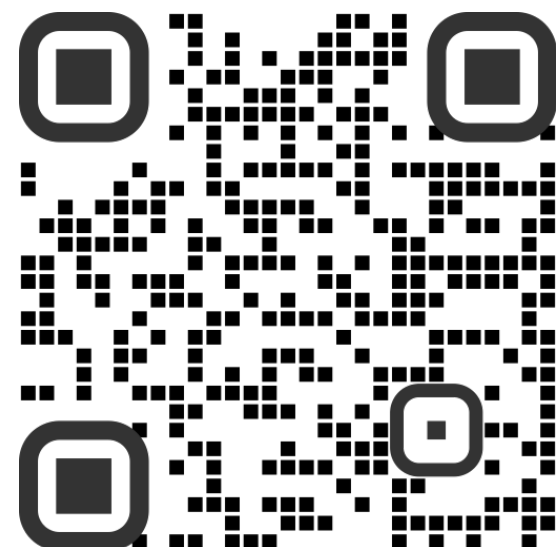




Your Partner In UAV Electronics

BLDC MOTORS
ELECTRONIC SPEED CONTROLLERS
PROPELLERS
INTEGRATED PROPULSION UNITS
CAPACITOR BANKS
POWER DISTRIBUTION BOARDS



**STARTUP
INCUBATION AND
INNOVATION
CENTRE
IIT KANPUR**

D series



Product Description:

Reflex Drive's **D Series** trapezoidal electronic speed controllers (ESC) offer a state-of-the-art solution to drive BLDC motors - and are proudly **Made in India**.

The trapezoidal ESCs are designed to deliver superior performance and reliability, with customizable firmware and advanced safety features that make it the ideal choice for drone enthusiasts and commercial drone operators alike.

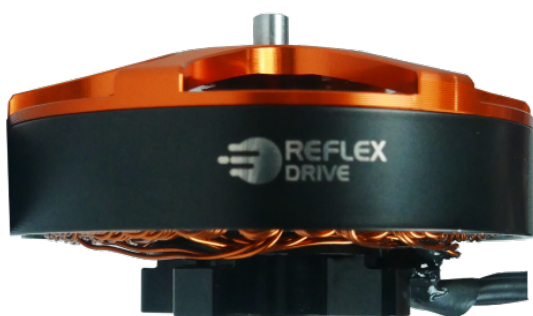
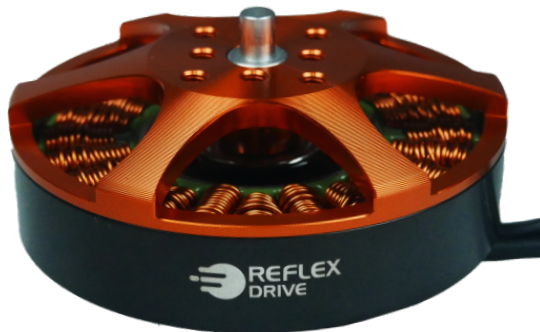
With its sleek and durable aluminum enclosure (optional), the trapezoidal ESC provides excellent heat dissipation and protection against harsh environmental conditions.

TEST VIDEO: [Click here to View](#)

D series Specifications	
Continuous Current Range	40A
Burst Current (180 Sec)	50A
Voltage	2S-6S
Heatsink Plate	Yes
BEC	No
Max Operating Temperature	50°C
Dimensions	24mmx40mm
Weight	32gm with wire
Telemetry	Yes
Current Sense	No
Communication Protocol	PWM, DShot300
Recommended Motors	RD4006, RD5008
Status	Production

RD5008 KV370

UAV BLDC MOTOR



RD5008 KV370 Specifications	
Motor Type	Outrunner
KV Rating	370 KV
Maximum Thrust	4.2 KG
No of Slots / Magnet Poles	24/28
No load Current	1.5A
Motor Efficiency	90.99%
Weight (Including Cable)	135 grams
Voltage Range	6S
Maximum Current (15 Sec)	51A
Maximum Power (15 Sec)	1224W
Motor Diameter	55.6mm
Motor Length	27mm
Motor Torque Constant (gm.cm/A)	294.15
Cable Type / Length	15 AWG / 80mm
Copper wire Temperature Rating	90 °C
Winding material	100 % Copper
IP Rating	IP34
Maximum Operating Temperature of the Magnet	150 °C
Recommended Propeller	17*60 (Folding)

PERFORMANCE DATA

TEST SETUP :
Motor: RD5008 KV370
ESC : RD-T-TZ-080-06-E-BTC
Operational Temperature: -20 °C~ 85°C

Voltage	Propeller	Throttle (%)	Thrust (g)	Ampere (A)	Power (W)	Efficiency (g/W)
24V (6S)	17*60	50%	1840	10.6	254.4	7.23
		60%	2290	14.1	338.4	6.75
		70%	2670	17.4	417.6	6.39
		85%	3380	25.3	607.2	5.57
		100%	4280	36.3	871.2	4.91

Multicopter design recommendations with RD5008:
Recommended Propeller: 1760 Folding or similar.
Recommended ESC: RD-T-TZ-080-06-E-BTC or similar.

- **Quad-copter:**
 - Maximum take-off weight for the drone: 7.62 KG
- **Hex-copter:**
 - Maximum take-off weight for the drone: 11.78 KG
- **Oct-copter:**
 - Maximum take-off weight for the drone: 15.42 KG

1760 Folding (CW, CCW)



Product description:

Introducing 1760 Folding (CW,CCW) Propellers: Unleash Performance and Efficiency in a Compact Design. Engineered to redefine performance and efficiency, this propeller is designed to deliver exceptional results in a compact form. Measuring 17 inches in diameter and 6.0 inches in width, this propeller strikes the perfect balance between agility and stability. The Folding design optimises thrust and airflow, ensuring precise control and manoeuvrability during every flight.Weighing only 40 grams, this lightweight propeller minimises the overall weight of your aircraft without compromising on performance. This reduction in weight translates into extended flight times and improved efficiency, allowing you to maximise your time in the air.

1760 Folding (CW, CCW)	
Pitch	17 inch
Diameter	6.0 inch
Weight	40 grams
Material	Polycarbonate