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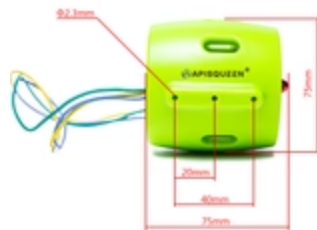
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PWM full name is (Pulse-width modulation).
It is also called duty cycle signal, which indicates the proportion of the high level duration to the whole signal period. 2ms for the whole period of PWM, 1.5ms stop, 1.5-2ms forward, 1.5-3ms reverse.



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U01 12V~16V 2KG THRUST BRUSHLESS UNDERWATER THRUSTER/PROPELLER/PROPULSION WITH BI-DIRECTIONAL CONTROL ESC FOR ROV BOAT

★★★★☆ 1 review

\$15.50

Shipping calculated at checkout.

Specification

CW Thruster

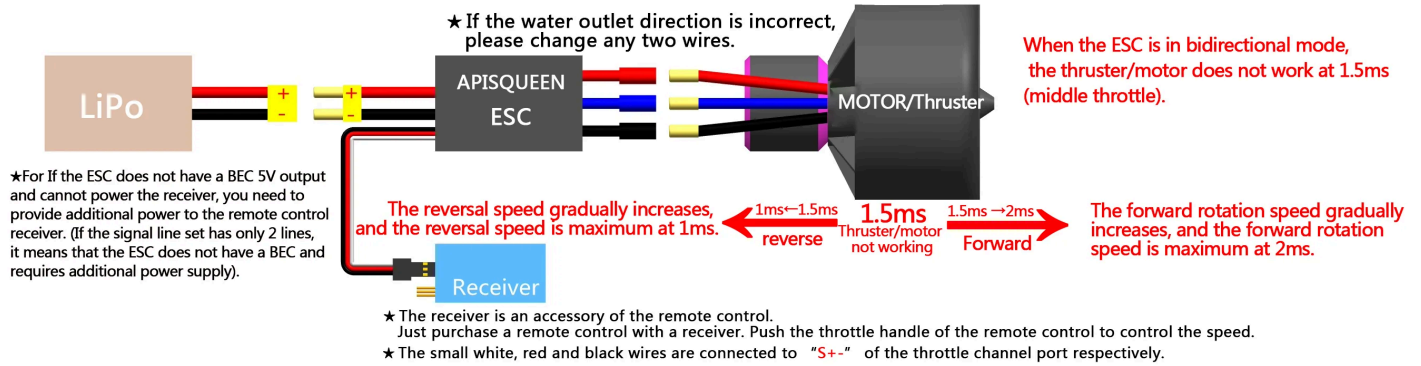
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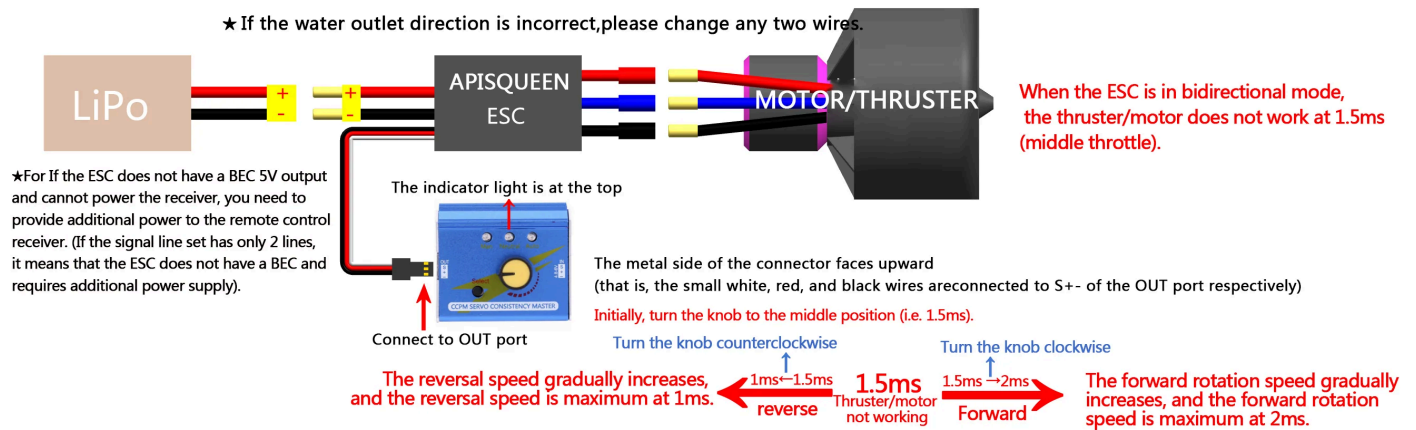
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Wireless control method



WIRED CONTROL METHOD

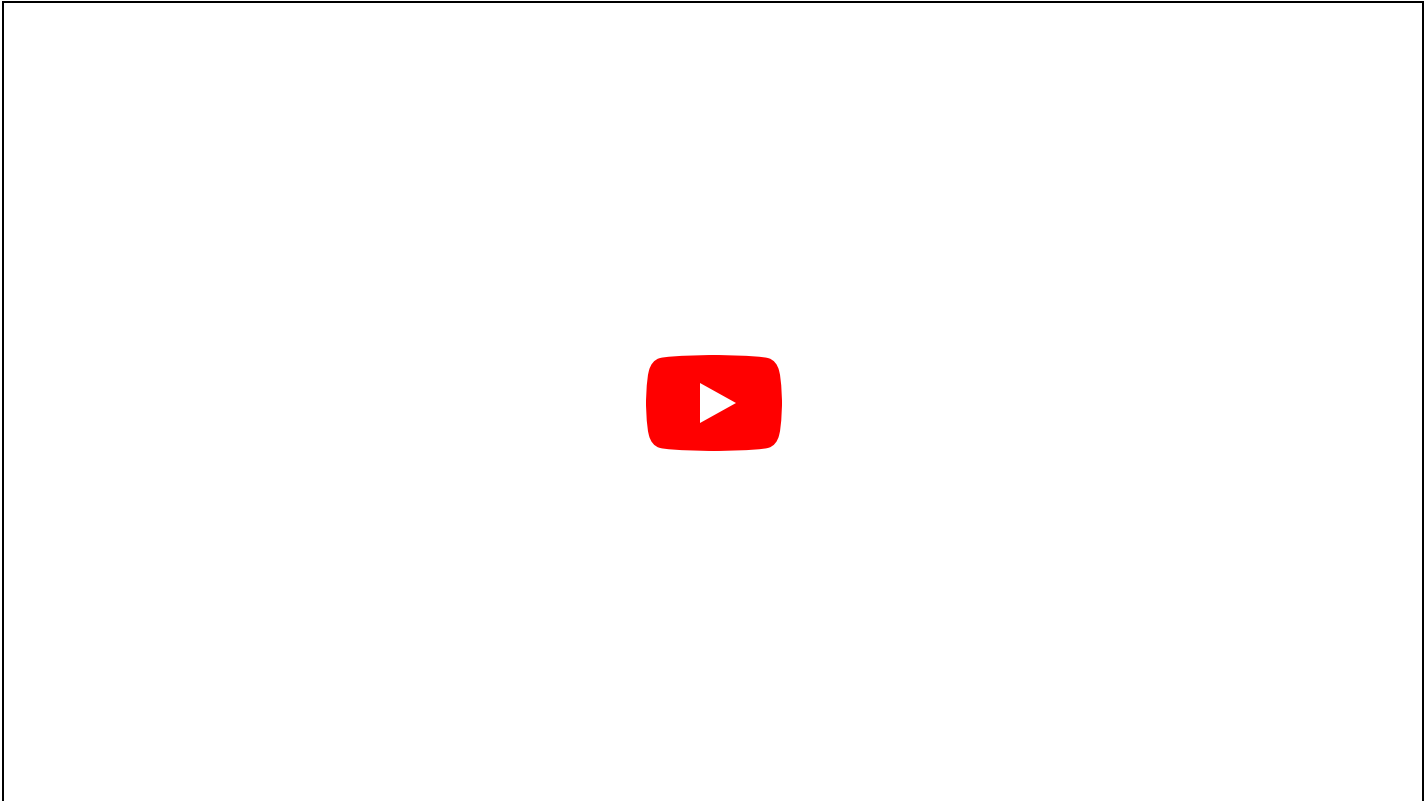


APISQUEEN U1 freshwater thruster backward propulsion power test

APISQUEEN U1 freshwater thruster backward propulsion power test



APISQUEEN U1 freshwater thruster forward propulsion power test



We are the source factory, for bulk purchase / customization please contact us at llny@underwaterthruster.com.

Environment: fresh water only

APISQUEEN U1 UNDERWATER THRUSTER							
Forward				Reversal			
Voltage (V)	Throttle	Current (A)	Thrust (Kg)	Voltage (V)	Throttle	Current (A)	Thrust (Kg)
10	100%	4	0.90	10	100%	4	0.70
12	100%	5	1.20	12	100%	5	0.80
14	100%	8.0	1.50	14	100%	8	0.90
16	100%	9	1.70	16	100%	8	1.20

Voltage: 12-16V (2S-4S LiPo)
Max. power: 390W
Max. current: 17A
Best working voltage: 16V(4S Lipo)
Size:75*75mm
Weight:178g
Cable length:330mm

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Download (STP format):📄📄📄

<https://cdn.shopify.com/s/files/1/0621/5493/2452/files/U1-3D.stp?v=1689601104>

12-24V 2Kg Thrust Brushless Underwater SUBSEA Thruster/Propeller/propulsion With Bi-directional control ESC For ROV Boat.

The ESC is specially developed for underwater thrusters and has the following features:

1. The proprietary firmware of ApisQueen thrusters is specially designed to improve the superior performance of the thrusters. The motor PWM generated by the hardware can improve the smooth throttle response and reduce the noise.
2. ApisQueen's exclusive firmware will generate regenerative braking, making it more efficient. When the throttle changes from large to small, the thruster decelerates and responds more quickly, and the stability and flexibility of the thruster are significantly enhanced.
3. The ESC automatically detects the throttle signal when it is powered on, and supports 1-2ms pulse width input, Oneshot and Multishot in normal PWM throttle mode.
4. Support Dshot150, Dshot300 and Dshot600. Dshot is a digital signal with strong anti-interference ability, and the ESC does not need to calibrate the throttle stroke.
5. The signal wire is a twisted pair of silicone wires, which increases its service life and effectively reduces the interference caused by the signal transmission in the copper wire, making the thruster more stable.

Non-waterproof 45A ESC (Voltage: 2-6S Lipo):



Waterproof 45A ESC (Voltage: 2-6S Lipo):

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ABOUT PWM

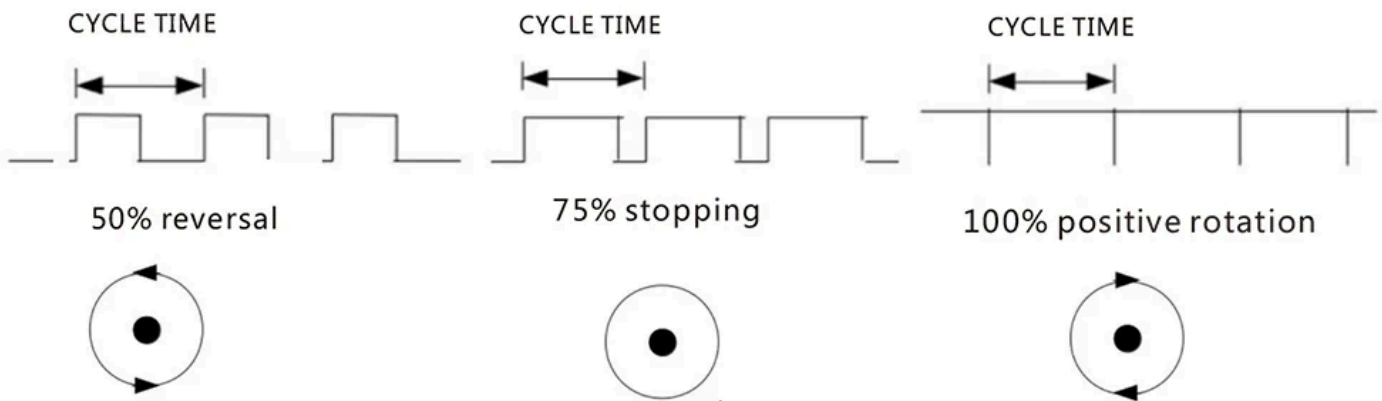
The frequency of PWM signal is 50hz, 100hz, 200hz or 500hz, etc. The higher the control frequency, the shorter the period, the shorter the control interval, and the faster the ESC and motor response speed. The faster the ESC and motor response. Conversely, the lower the control frequency, the longer the period, the longer the control interval, and the slower the ESC and motor response.

【45A ESC manual PDF】

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[y.com/s/files/1/0621/5493/2452/files/45A.pdf?v=1679410867](https://www.underwaterthruster.com/s/files/1/0621/5493/2452/files/45A.pdf?v=1679410867)

PWM full name is (Pulse-width modulation). It is also called duty cycle signal, which indicates the proportion of the high level duration to the whole signal period. 2ms for the whole period of PWM, 1.5ms stop, 1.5-2ms forward, 1.5-1ms reverse.



From the diagram, we can clearly see that when PWM is 75% (1.5ms), the motor stops rotating, when PWM is 50% (1ms), the motor rotates in reverse, and when PWM is 100% (2ms) the motor rotates in forward. Of course ESC will not only make the motor turn forward and reverse, but can adjust the speed of motor rotation by the duty cycle size of PWM. When the PWM is gradually changed from 75% to 50%, the motor will keep reversing and accelerating from stop until the reverse rotation reaches the maximum. And when PWM is gradually changed from 75% to 100%, the motor is continuously accelerated from stop to forward until the forward rotation reaches the maximum value. That is, PWM is a signal that can be continuously varied, and the effective range is from 50% to 100%.

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CUSTOMER REVIEWS

★★★★☆ 3.00 out of 5

Based on 1 review

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★★★★☆	0
★★★☆☆	1
★★☆☆☆	0
★☆☆☆☆	0

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★★★★☆

12/06/2023



Nicholas Wilmshurst Verified

doesn't come with the esc

Good price for a nice thruster but f.y.i. ,it doesn't actually come with the esc like suggested in the description.

>> **underwaterthruster.com** replied:

Dear Buyer. Thank you for your review. There are two kinds of ESC in the description:(1) Non-waterproof 45A ESC (Voltage: 2-6S Lipo); (2) Waterproof 45A ESC (Voltage: 2-6S Lipo); We will ship according to the option you ordered.

**APISQUEEN OFFICIAL
WEBSITE**

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CONTACT US**Questions/After-sales:**

lynn@underwaterthruster.com

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