

Heritage Robotics Technologies

2018 Robotics Spec Sheet

Motors - The BlueRobotics T200 was designed for various consumers and limitless applications. The T200 is basically a brushless electric motor, just like you'd find on an RC airplane or a quadcopter drone. The big difference is that this motor is purpose-built for use in the ocean and was designed specifically for use on ROVs, AUVs, and robotic surface vehicles. Everything that isn't plastic is either aluminum or high-quality stainless steel that doesn't corrode. Our team is using six T200 motors for this competition, which makes our ROV light and nimble.



Max Thrust – Forward @12V	7.8 lbf	3.55 kgf
Max Thrust – Reverse @ 12V	6.6 lbf	3.0 kgf
Min Thrust	0.02 lbf	0.01 kgf
Rotational Speed	300-3800 rev/min	
Operating Voltage	6-20 volts	
Max Current	25 Amps	
Max Power	350 Watts	
Length	4.45 in	113 mm
Diameter	3.8 in	96.5 mm
Propeller Diameter	3.0 in	76 mm

Cable Length	39 in	1.0 mm
Mounting Hole Threads	M3x0.5	
Mounting Hole Spacing	0.75 in	19 mm
Weight in Air (with 1m cable)	0.76 lb	344 g
Weight in Water (with 1m cable)	0.34 lb	156 g



Diameter	1.5 inches [37.5mm]
Lighting	Variable Intensity LED
Imager	1/4" CCD
Resolution	400+ TV Lines
Sensitivity	1 Lux
Depth Rating	1,000 feet [300 metres]
Length	2 inches [50 mm]
Material	2 Part Epoxy

The Amber camera can operate in air or underwater (depth rated to 1,000 ft [300m]) making it ideal for use as a diver camera or an auxiliary camera mounted on ROVs, robotic crawlers or manipulator arms. HRT will be using three of these cameras to complete the provided tasks.



Material	Premium polymer hybrid
Type	Hybrid Air Hose
Length	50 ft
I.D.	1/4 in.
Fittings	1/4 in. NPTM
Max. Working Pressure	300 PSI
Temperature Range	-40 to 65 °C
Model #	12659
Brand Name	Diamond Flex