

# Remotely Operated Surface Vehicles



Specifications	Z-Boat 1800-RP	Z-Boat 1800	Z-Boat 1800-MX	Z-Boat 1800-SS	Q-Boat 1800
<b>PHYSICAL</b>					
Hull Length and Width	180 x 100cm (5.9 x 3.3ft)	180 x 90cm (5.9 x 2.95ft)	180 x 90cm (5.9 x 2.95ft)	180 x 90cm (5.9 x 2.95ft)	180 x 90cm (5.9 x 2.95ft)
Draft	0.28m	0.25m	0.25m	0.25m	0.25m
Weight of Base Boat/Payload	38kg/30kg (66lbs)	30kg (66 lbs.) / 30 kg (66 lbs.)	30kg (66 lbs.) / 30 kg (66 lbs.)	30kg (66 lbs.) / 30 kg (66 lbs.)	30kg (66 lbs.) / 30 kg (66 lbs.)
Hull Material	UV-Resistant ABS	UV-Resistant ABS	UV-Resistant ABS	UV-Resistant ABS	UV-Resistant ABS
Motor	Dual Brushless 24V DC Outdrives	Single-Brushed DC Outdrive (1800) Dual Brushless 24V DC Outdrives (1800 HS)	Single-Brushed DC Outdrive (1800) Dual Brushless 24V DC Outdrives (1800 HS)	Single-Brushed DC Outdrive (1800) Dual Brushless 24V DC Outdrives (1800 HS)	Single-Brushed DC Outdrive (1800) Dual Brushless 24V DC Outdrives (1800 HS)
<b>REMOTE</b>					
Navigation Remote	Hitec with Vessel Telemetry	Hitec with Vessel Telemetry	Hitec with Vessel Telemetry	Hitec with Vessel Telemetry	Hitec with Vessel Telemetry
Navigation Remote Frequency	2.4GHz FHSS	2.4GHz FHSS	2.4GHz FHSS	2.4GHz FHSS	2.4GHz FHSS
Navigation Remote Range	1200m	1200m	1200m	1200m	1200m
Data Telemetry Range	Up to 2km (5GHz MIMO) Worldwide (4GLTE) Up to 1500m (5 GHz SISO)	600m (Bluetooth) >2000m (900 MHz Hydrolink)	Up to 1500m (5 GHz Ethernet)	Up to 1500m (5 GHz Ethernet)	600m (Bluetooth) >2000m (900 MHz Hydrolink)
<b>PERFORMANCE</b>					
Typical Survey Speed	3-3.5 kts (1.5-1.8m/s)	3-4 kts (1.5-2.0m/s)	3-4 kts (1.5-2.0m/s)	3-4 kts (1.5-2.0m/s)	3-4 kts (1.5-2.0m/s)
Top Speed	8 kts (1800 RP)	4 kts (2m/s) (1800) 10 kts (5m/s) (1800 HS)	4 kts (2m/s)	4 kts (2m/s) (1800) 10 kts (5m/s) (1800 HS)	4 kts (2m/s) (1800) 10 kts (5m/s) (1800 HS)
Battery Endurance	Up to 4.5 hours	Up to 2.5 hours (150 minutes) (1800) Up to 4 hours (1800 HS)	Up to 2.5 hours (150 minutes)	Up to 2.5 hours (150 minutes) (1800) Up to 4 hours (1800 HS)	Up to 2.5 hours (150 minutes) (1800D) Up to 4 hours (1800P)
Battery Pack	4x24v 30Ah	1 x 12V 10Ah m (1800) 3 x 24V 30Ah (1800 HS)	1 x 12V 10Ah m	1 x 12V 10Ah m (1800) 3 x 24V 30Ah (1800 HS)	1 x 12V 10Ah m (1800D) 3 x 24V 30Ah (1800 HS)
<b>AVAILABLE INSTRUMENTATION</b>					
<p>All Z-Boat Survey Vehicles are available with optional HD video cameras and can accommodate most industry standard ADCPs</p> <p>All Z-Boats and Q-Boats are compatible with other sensors on the market and custom sensor integration is available on most models.</p>	Teledyne Odom MB1, MB2 Multibeam Echosounder, and Teledyne Odom CV100/CV100 DF	Teledyne Odom CV100/CV100 DF	Biosonics MX Echosounder	Tritech StarFish Side Scan Sonars	Teledyne RD Instruments RiverPro
	R2 Sonic 2020 MBES	Airmar "Smart" Transducer SSS10			Teledyne RD Instruments RiverRay
	Tritech Side Scan Sonars	Tritech StarFish Side Scan Sonars			Teledyne RD Instruments Rio Grande
	Biosonics MX Echosounder	R2Sonic 2020 MBES			Teledyne RD Instruments StreamPro
	POS MV WaveMaster	Biosonics MX Echosounder			Teledyne RD Instruments Monitor
	SBG Ekinox	YSI and Hanna Sondes			Sontek RiverSurveyor M9/SS
	TSS DMS525	SBG Ekinox			Linkquest Flowquest
Teledyne RD Instruments ADCPs	Teledyne RD Instruments ADCPs				