



Infrastructure name	Max Rover
Code	
Owner/Institution	Hellenic Center for Marine Research (Greece)
Manager	Christopher Smith (csmith@her.hcmr.gr)
Equipment type	ROV
System description	DSSI Max Rover Mark II 2000m depth
WEB LINK	http://www.hcmr.gr/listview3.php?id=449
WEB LINK TECH SPECS	http://www-new.ath.hcmr.gr/listview3.php?id=452
Vessels normally used	RV Aegaeo, RV Philia, other vessel possibilities
Ship requirements	Deck space, lab space, power requirements. Lifting requirements for deploy/recover ROV, 5 ton crane
Technical requirements	
Power	
Frequency	50/60 Hz
Voltage	Winch 25 hp, 380 V, 3 phase, ROV 220 V single phase
KVA	ROV 14 kVA
Max Amps	65 A single phase
Other power requirements	
Hydraulic	N/A
Pressure	
Flow rate	
Compressed air requirements	N/A
Cooling water	
Subsea positioning requirements	
Compatible USBL systems	TrackLink 1000 m, Trackpoint 3000 m. Side mounted boom/pole required for transducer head.
Vessel GPS Feed or other requirements	Vessel GPS, vessel compass
Networking requirements	
No. of System configurations possible	2
Configuration 1	ROV, 80 m floated umbilical to 100 kg chain weight on umbilical Minimum depth 50 m for free operations
Configuration 2	Less than 50 m depth ship must be anchored, free floating umbilical, no cable weight.
Configuration 3	
Configuration 4	
Deck Layout Drawing	
Configuration 1	
Configuration 2	
Configuration 3	
Configuration 4	
System weight/COG in each configuration	
Configuration 1	In air ROV 750 kg, Winch 5 ton, consoles 500 kg, spares/tool, 300 kg
Configuration 2	Same

Configuration 3	
Configuration 4	
Number of containers/Items, Footprint Area required	No containers necessary
Configuration 1	Deck: ROV 6 sq m, winch 6 sq m, power unit 2 sq m. Labs: consoles, 6 sq m, spares/tools, 4 sq, m.
Configuration 2	Same
Configuration 3	
Configuration 4	
Deck securing arrangements	
Configuration 1	All systems strap/chain down where necessary
Configuration 2	Same
Configuration 3	
Configuration 4	
Deck strength/Deck loading	
Configuration 1	
Configuration 2	
Configuration 3	
Configuration 4	
Transportation requirements (total weight and number of loads)	
Configuration 1	Total Weight: 7 ton, covered articulated truck for long distance, 7 m flatbed for short distance. 10 ton lifting crane required for load/unload.
Configuration 2	
Configuration 3	
Configuration 4	
V.A.T. + Customs clearance practice	
Mobilisation Details	
Typical Mobilisation duration	1-2 days
Typical Mobilisation cost	Home port 1000 Euro Truck/crane cost
Typical Demobilisation duration	1 day
Typical Demobilisation cost	Home port 1000 Euro Truck/crane cost
Insurance arrangements	
Own use	Full commercial insurance policy. Covered for all risks. (With specific standard Exceptions)
Barter	Full commercial insurance policy. Covered for all risks. (With specific standard Exceptions)
Charter	Full commercial insurance policy. Covered for all risks. (With specific standard Exceptions)
Co-operation	Full commercial insurance policy. Covered for all risks. (With specific standard Exceptions)
Transportation insurance	Extra if outside of Greece
Technicians	
Number and type of technicians required to operate system in various scenarios	8 hour day: 4 technicians (mix engineers/pilots), plus surface diver, 8-24 hour 6 technicians plus surface diver
System payloads	
Total maximum payload	50 kg
Existing specific payloads	1 5F manipulator, Trittech SSS,