



I90+ | Observation Class ROV

✓ Features

Building upon the I90, the I90+ offers an upgrade in size and torque, accommodating a more robust thruster developed in-house by DWTEK. This enhancement results in a more powerful and agile ROV.

✓ Application

Offshore Wind Energy, O&G, Aquaculture, Nuclear, Civil Inspection, Academic&Research, Military&Defense, Wreck inspection



Dimension (L x W x H)	1,100 x 700 x 530 mm
Weight in air	130 kg
Depth rating (Standard)	500 m
Depth rating (Optional)	1,000 m
Speed (knots)	3
Payload	25 kg
Available ports in the MCC Chamber	8 If you have any further queries, please do not hesitate to contact DWTEK Co., Ltd (RS232/RS485)
Available ports in the TLC Chamber	3 If you have any further queries, please do not hesitate to contact DWTEK Co., Ltd (RS232/RS485)
Hydraulic power units	N/A
(Propulsion) Horizontal thruster	DWT8537 x 4
(Propulsion) Vertical thruster	DWT8537 x 2
Thruster (Optional)	N/A
(Thrust)Forward/reverse	70 kgf
(Thrust)Lateral	60 kgf
(Thrust)Vertical	48 kgf
Manipulator	Up to 5 axis manipulator x 1 (Optional)
Wrist camera assembly	SD Camera x 1 (Optional)
Laser	Optional
CP Probe	Optional
Hydraulic units	TBD
Camera (Standard)	HD x 1 (Standard)
Camera (Optional)	Up to SD x 4 (Optional)
Lighting (Standard)	150W x 2 (Standard)
Lighting (Optional)	Optional

Automatic control	Optional
Heading Sensor	Standard
Altitude Sensor	Optional
Depth Sensor	Standard
Obstacle Avoidance Sonar	Optional
DVL	Optional
INS	Optional
USBL	Optional
Cable Tracking System	Optional
Data links	Optical Fiber

(Power)

Input (VAC): 220V
Single - Phase 50/60Hz
Output (VDC): 300V(6Kw)

(TMS)

Type	Cage
Electro-optical tether	150m
Camera (Standard)	SD x2
Camera (Optional)	Up to SD x 2
Lighting (Standard)	23W x 2
Lighting (Optional)	Up to 23W x 4
Optionals	USBL/ Current meter/ Sonar/ Depth

(LARS)

Launch and Recovery Systems	Optional
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