



# ROV MIKE Technical Specifications

## 100 meters rated Inspection-Class ROV

<b>VEHICLE</b>	Length	860 mm
	Width	540 mm
	Height	440 mm
	Weight in air	27 kgs
	Max Payload	7 kgs
	Vehicle Power Input	100-220 VAC @ 50-60 Hz (Single Phase)
	Type of Power	Electric
	Power of Vehicle System	1000 W
	Depth Rating	100 meters
	Min. Operating Temperature	0 Deg C
	Max. Operating Temperature	45 Deg C
Launch and Recovery (LARS)	Manual	

<b>SURFACE DISPLAY CONSOLE WITH GUI</b>	Screen Size	19 inch, 1000 nits
	Controller	Wired Xbox 360 Joystick
	Length	570 mm
	Width	480 mm
	Height	260 mm
	Weight in Air	10 kgs

<b>TETHER</b>	Type of Tether	Neutrally Buoyant
	Standard Length	70 m
	Maximum Length	100 m
	Diameter	10 mm
	Winch	None

<b>OPERATION</b>	Buoyancy	Neutral
	Reserve Buoyancy	+1.0%; Controlled using buoyancy floats
	Automatic Depth Control	Yes
	Automatic heading Control	Yes
	Interfaces and Protocol	RS232, RS485 & Ethernet 10/100

<b>SENSORS</b>	Pitch and Roll	Y
	Max. pitch and roll angle	Pitch +/- 90 deg, Roll +/- 180 deg
	Pitch, Roll and Heading Resolution	0.05 deg.
	Depth Sensor	Silicon Piezo-resistive, accuracy 0.25% FSO

<b>THRUSTERS</b>	Type of Thrusters	Brushed DC
	<b>Speed &amp; Thrust – Configuration 1</b>	
	No. of forward thrusters	2
	No. of lateral thrusters	2
	No. of up-down thrusters	2
	Max Forward Speed	2 knots
	Max. Lateral Speed	2 knots
	Max up-down Speed	2 knots
	Max Forward Thrust (Reverse)	4.5 Kg-F (3.6 Kg-F)
	Max. Lateral Thrust (Left/right)	4 Kg-F
	Max. downwards thrust (Upwards)	4.5 Kg-F (3.6 Kg-F)
	<b>Speed &amp; Thrust – Configuration 2</b>	
	No. of forward thrusters	4
	No. of lateral thrusters	0
	No. of up-down thrusters	2
	Max Forward Speed	4 knots
	Max. Lateral Speed	0 knots
Max up-down Speed	2 knots	
Max Forward Thrust (Reverse)	9 Kg-F (7.2 Kg-F)	
Max. Lateral Thrust	0	
Max. downwards thrust (Upwards)	4.5 Kg-F (3.6 Kg-F)	

<b>LIGHTS AND CAMERAS</b>	Number of Lights	3 (top, front, bottom)
	Type of Lights	LED
	Brightness Control	Yes, 30 - 100%
	Lumen capacity of each LED Lamps	800 Lumens
	Number of Cameras	3 (2 x front, 1 x bottom)
	Simultaneous camera views	2
	Additional switched cameras	1
	Video Transmission	NTSC
	Type of Camera	Low light, auto focus, wide angle colour
	Camera Resolution	720 p/ 30 fps; 1080p/10 fps
	Pan and tilt platform	Not available live
	Tilt platform	Manually
Auxillary Cameras	Max 2	
Type of Auxillary Camera	GoPro Hero 4 (No Streaming)	