



## Long Distance Remotely Operated Vehicle (LDROV)

SeaView Systems' Long Distance Remotely Operated Vehicle is a custom ROV fitted with a fiber optic telemetry system and power handling equipment. It is driven by four 300W brushless DC thrusters (vector configuration) giving a total forward thrust of 72lbs. The ROV is built into a custom plastic frame fitted with freewheeling wheels on the top surface to provide smooth running along the crown of pipelines and tunnels.



## Data Playback

- SeaView 3D PipeWalk software. In-house developed software allowing user to virtually 'walk through' a 3D model of the pipeline while viewing 3 channels of recorded video.

## Sonar Options

- Imagenex 881a profiler
- Imagenex 851 imaging sonar

## Tooling Options

- Single function, three jaw grabber
- Rotating actuator

## Video Overlay

- Configurable video overlay display showing such parameters as heading, depth, temperature, time and date, penetration distance pipeline number and station number

## Distance Measurement

- Friction-driven wheel line counter on umbilical
- Accurate to 0.2% or better of the penetration distance
- Penetration distance logged to disk for post-processing and displayed on center tilt camera video

## Recording

- All three video channels recorded independently to DVR
- Audio commentary recorded as required throughout
- Sonar/profile data recorded continuously for report generation



<b>Depth Rating:</b>	500ft/152m
<b>Dimensions:</b>	17"/430mm height
	18"/460mm width
	41"/1040mm length
<b>ROV Weight</b>	100lbs/45kgs
<b>Umbilical</b>	10000ft/3000m x 0.6"/15mm neutrally buoyant fiber optic
<b>Lighting</b>	4 x 70W high intensity LED lamps
<b>Thrust:</b>	5 x Tecnydyne Model 300 brushless DC motors
	Max forward thrust 72lbs/32kgf
	Max lateral thrust 12lbs/5.4kgf
	Max vertical thrust 18lbs/8kgf
<b>Cameras:</b>	1 x pan/orbit/zoom color camera (capable of 360° orbit)
	2 x 530 Line/0.3 Lux color CCD cameras
<b>Other Sensors:</b>	Heading, Pitch and Roll, Depth
<b>Telemetry:</b>	3 x video channels
	4 x RS232 channels
	2 x RS485 channels (one for ROV, one for sonar)

SeaView Systems, Inc. designs, manufactures and operates remotely operated vehicles, electronics and other custom hardware/software tools, including oceanographic instruments, custom remotely operated vehicles and tooling systems, to meet oceanographic and underwater robotic applications.

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