

Depth rating: 500ft/150m

Dimensions:

Height: 17"/430mm

Width: 18"/460mm

Length: 41"/1040mm

ROV weight: 100lbs/45kgs

Total system weight:

2000lbs/910kgs (shipped in 4 packages)

Umbilical : 6000ft/1830m x 0.5"/13mm neutrally buoyant fiber optic

Available option:

10,000ft/3000m x 0.6"/15mm neutrally buoyant fiber optic

Lighting: 4 x 70W high intensity LED lamps

Thrust: 5 x Tecnydyne Model 300 brushless DC motors

- Max fwd thrust: 72lbs/32kgf
- Max lateral thrust: 12lbs/5.4kgf
- Max vertical Thrust: 18lbs/8kgf

Cameras:

- 1x pan/orbit/zoom color camera (capable of 360° orbit)
- 2 x 530 Line/0.3 Lux color CCD cameras (typically fixed at 4 o'clock and 8 o'clock positions)

Other Sensors:

- Heading
- Pitch and Roll
- Depth

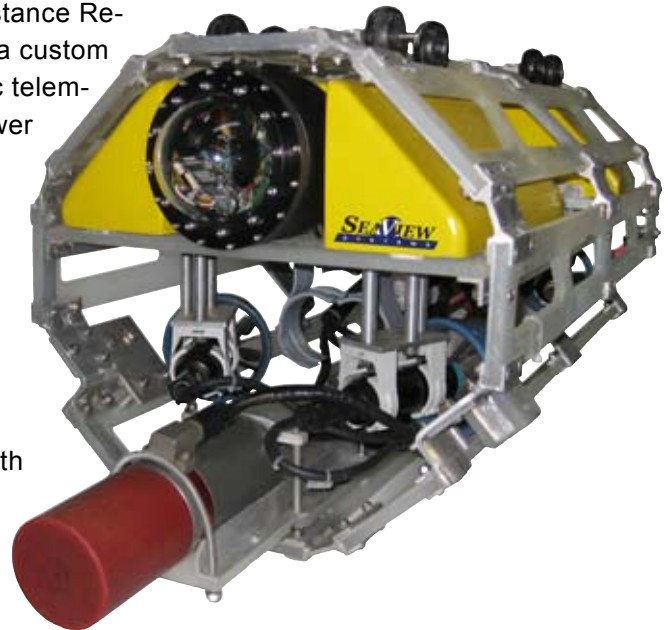
Telemetry: Fiber optic umbilical/telemetry system capable of providing at a minimum:

- 3 x video channels
- 4 x RS232 channels
- 2 x RS485 channels (one used to control ROV and one to operate sonar)

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## LONG DISTANCE REMOTELY OPERATED VEHICLE (LDROV)

SeaView System's Long Distance Remotely Operated Vehicle is a custom ROV fitted with a fiber optic telemetry system and custom power handling equipment. It is driven by four 300W brushless DC thrusters (vector configuration) giving a total forward thrust of 72 lbs. 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.



### OPTIONS

#### Data Playback Options

- 3rd party ODESSA MSX Video Viewer (allows for synchronous playback of up to 4 channels of video)
- SeaView 3D PipeWalk software. In house developed software allowing user to virtually "walk" through 3D model of 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 #, station #.

#### Distance measurement

- Friction driven wheel line counter on umbilical.
- Accurate to better than 0.2% of 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/profiler data recorded continuously for report generation.

#### Transport

- For operations within the US and Canada the equipment is generally hauled to the inspection location in a 10ft x 5ft covered trailer. Also the entire system is set up for air-freight as four packages with total weight of 2000lbs (910kgs).