DEEP TREKKER PRODUCT CATALOGUE

Solving harsh environment situations with fully assembled, tested and ready to use remotely operated vehicles and submersible robots.

Head office

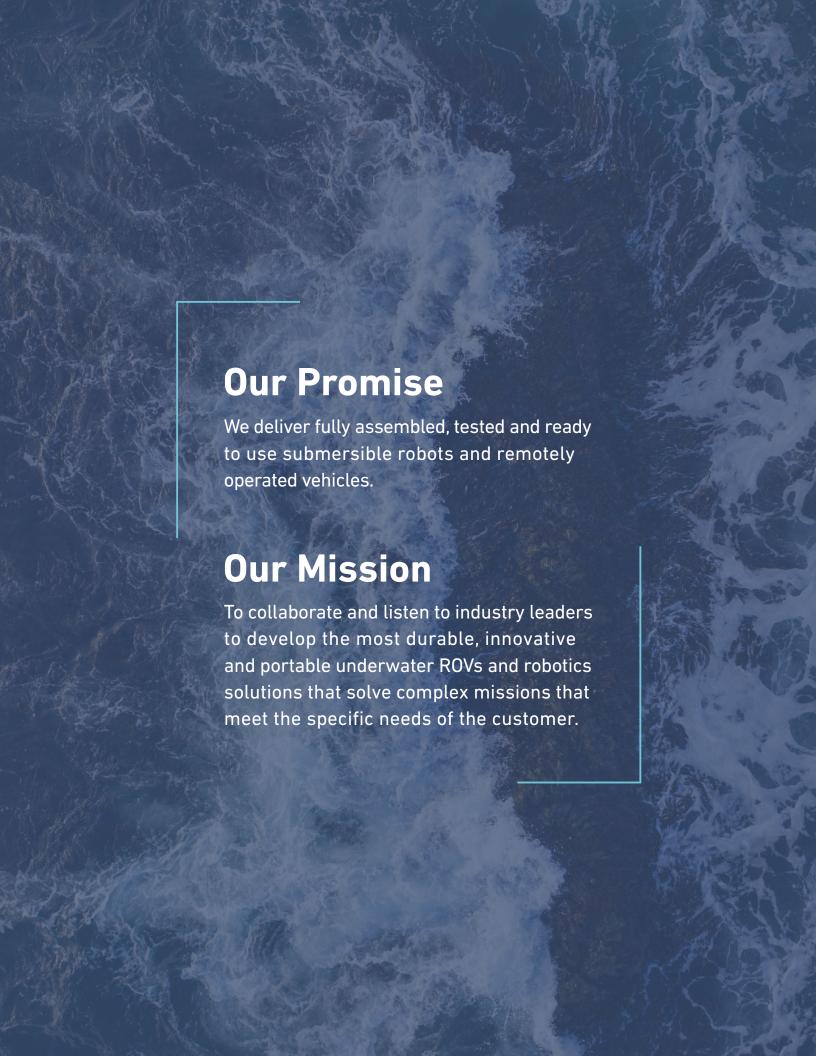
830 Trillium Dr Kitchener, ON Canada

Chile Office

Dr Martín 580 Puerto Montt, Los Lagos Chile



DEEP TREKKER



With a decade of proven performance, Deep Trekker is one of the largest underwater robotics manufacturers in the world. Delivering cutting edge vehicles to industries including aquaculture, defense, search and recovery, shipping, infrastructure, municipalities and energy, Deep Trekker's portable robotic solutions are built to conquer complex missions.

Renowned for innovation, precision engineering and quality products, Deep Trekker's product ranges include remotely operated vehicles (ROVs), pipe crawlers and utility crawlers that solve a suite of environmental and industrial issues.

Inspired by adventure and built for function, Deep Trekker is proud to engineer and manufacture at their Ontario, Canada headquarters.

THE DEEP TREKKER DIFFERENCE



Easy to Use

Designed with the operator in mind. All in one handheld controller and intuitive piloting system.



Portable

Battery power operation provides a truily portable solution. Freedom to move and deploy without the need for topside power.



Durable

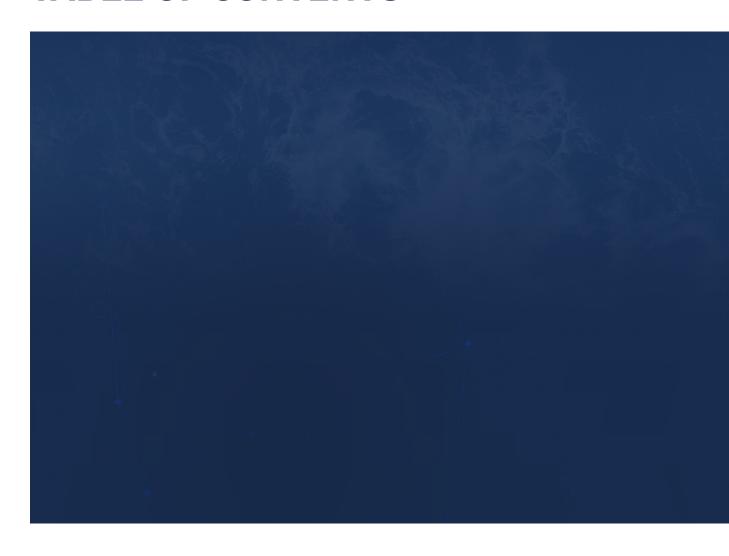
Built to last and designed to safely conduct underwater inspections in harsh environments.



Affordable

Innovative solutions for applications big and small. Suitable for all budgets.

TABLE OF CONTENTS





Intelligence and advanced capabilities make this portable, commercial-grade remotely operated vehicle the best in its class.







Complete portability

Quickly deploy this ROV with one case and a self contained battery operated system.



Unmatched maneuverability

The patented pitch system gives the pilot ultimate control.



Powered by **BRIDGE**

Enhanced operation capabilities with a seamless technology platform.

GENERAL SPECIFICATIONS

ROV General Specs

325 мм (12.8") Width: 258 мм (10.2") Height: 279 мм (11.0") Length: Weight (in air): 8.5 KG (18.7 LB) Body Material: Die Cast Aluminum

Window Material: Acrylic 200 м (656 гт) Depth Rating:

Operating Temp: -10°C to 50°C (14°F - 122°F) Case (optional): Custom Pelican Air 1637

Magnetically Coupled/Sealed

Warranty: 1 Year - Parts and Labor (optional 2-3 yrs)

Handle and Wheels Drives/Thruster:

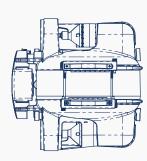
ROV Electrical System

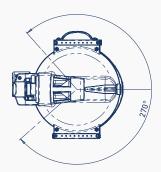
System Voltage: 19.2 VDC

Battery Run Time: Up to 8 Hours (Hybrid power capable)

Thruster Control: Independent

Infinitely Variable 100% Reversible





FULL HD VIDEO RECORDING

The HD internal camera is easy to use, with live zero latency viewing on the handheld controller and a 270 degree rotating field of view. Switch to photo mode to snap phots up to 8 megapixels. Record inspections and underwater operations directly to the handheld controller.

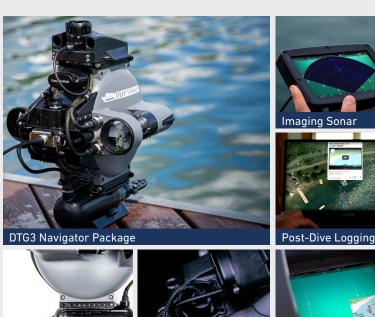
The patented pivoting technology brings the ability to adjust the angle of your camera, lights and laser scaler 270-degrees above and below the unit while holding its position in the water. An exhanced viewing and recording experience provide smarter inspections with its live, full HD video and weatherproof, handheld controller.

DTG3 NAVIGATOR PACKAGE | A SURVEYORS DREAM

An added precision thruster and advanced USBL positioning system make the Navigator Package an extremely advanced and maneuverable ROV with the same portability and durability Deep Trekker pilots are accustomed to.

The precision thruster at the rear of the vehicle enables users to move up and down without utilizing the pitch function. With the precision thruster engaged, pilots can make depth changes without any rotation of the ROV, making it ideal for the trickiest of observation needs. The ultra short baseline (USBL) system uses triangulation to indicate the position of the ROV. Wifi enabled maps allow you to see where both the controller and the ROV are located on a detailed map.

VEHICLE COMPONENTS



Precision Thruster

USBL Positioning



POWERED BY BRIDGE TECHNOLOGY

An intelligent, technology platform from Deep Trekker.

An operating system designed with custom hardware and software; for control, integration, communication and enhanced operation.

Enable the abilty to fuse all sensor data into one handheld, weatherproof controller. See positional data, direct imaging sonar feed and more - all alongside the ROV live video feed.



Simplified control



Seamless integrations



Constant communication



Enhanced operations

Grabber Arm

7" LCD Controller	✓	✓	✓	✓
FULL HD Low Light Camera	✓	✓	✓	✓
270° Total Range	✓	✓	✓	✓
200M Depth Rating	✓	✓	✓	✓
Starting Tether Length	50M	75M	100M	200M
Tether Reel	-	✓	✓	✓
Grabber Arm	-	-	✓	✓
Laser Scaler	-	-	✓	✓
Sensor Pack	-	✓	✓	✓
Altitude Sensor	-	-	-	✓
Lighting	✓	✓	✓	✓
Microphone	-	-	✓	✓
USBL Positioning	-	-	-	✓
Precision Thruster	-	-	-	✓
Hybrid Power	✓	✓	✓	✓
Carrying Case	-	✓	✓	✓
Fully Assembled and Tested	✓	✓	✓	/
Warranty	One Year	One Year	One Year	One Year
Online Training	-			✓

EXTRA ADD-ONS

 Imaging Sonar
 Sediment Samplers

 Mechanical Sonar
 Water Samplers

 USBL
 Additional Cameras

 Cygnus Thickness Gauge
 Additional Lighting

 NDT Tools
 Custom Tether Lengths

Net Patch Kit

Mort Pusher Kit Cutter Attachment Service Kits

Operational Enhancements
Application Based Tools

UNDERWATER REMOTELY OPERATED VEHICLES & ROBOTS

Grabbers and Manipulators

With over a decade of proven performance, Canadian company, Deep Trekker, is one of the largest underwater ROV manufacturers in the world – delivering high quality, robust and portable underwater robots to industries ranging from aquaculture to municipal contracting, military and defense, search and rescue, shipping, infrastructure and more.

Head office

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Dr Martín 580 Puerto Montt, Los Lagos Chile





Mission-ready remotely operated vehicle with greater payload capabilities, deeper depths, and advanced stabilization.





JOIN THE REVOLUTION ROV

The REVOLUTION is the most intuitive and stable ROV for underwater surveys and inspections. Built tough to survive harsh underwater conditions to accomplish complex missions.



305m (100ft) depth rating



Up to 6-hour battery operation



HD camera



Expeditionary transport case



Rovolving camera head

Change the orientation of your camera, sonar, grabber and more.



Field swap batteries

Quick-change batteries in the field for extended missions.



Autonomous capabilities

Seamlessly fusing all sensor data for autonomous control.

GENERAL SPECIFICATIONS

ROV General Specs

Window Material:

 Width:
 440 MM (17.3")

 Height:
 235 MM (9.3")

 Length:
 717 MM (28.2")

 Weight (in air):
 26 KG (57 LB)

Body Material : Anodized Machined Aluminum, Carbon Fiber, Stainless Steel, &

Buoyancy Foam Sapphire & Acrylic 305 м (1000 гт)

 $\begin{array}{lll} \mbox{Depth Rating:} & 305 \mbox{ M } (1000 \mbox{ FT}) \\ \mbox{Operating Temp:} & -10 \mbox{°C to } 50 \mbox{°C } (14 \mbox{°F} - 122 \mbox{°F}) \\ \mbox{Case (optional):} & \mbox{Custom Pelican Air } 1650 \\ \mbox{Handle and Wheels} \end{array}$

Drives/Thruster: Magnetically Coupled/Sealed

Warranty: 1 Year – Parts and Labor (optional 2-3 yrs)

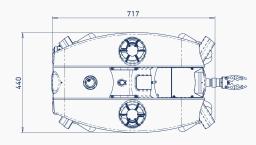
ROV Electrical System

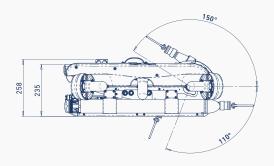
System Voltage : 22.2 VDC

Battery Run Time: Up to 6 Hours (30-sec Battery Change)

Thruster Control : 6x Independent Control

Infinitely Variable 100% Reversible





REVOLUTIONARY REVOLVING CAMERA HEAD

The defining feature is the 260-degree revolving head at the front of the vehicle. In the center of this head is the ultra high definition camera that you see the view from on your controller, as well as powerful LED floodlights and a laser scaler.

Adjust the angle of your camera, lights, laser scaler, imaging sonar and grabber to ensure optimal position for your application, such as sweeping an area with the imaging sonar in a search mission or looking above at the hull of a ship or to locate targets on the seafloor.

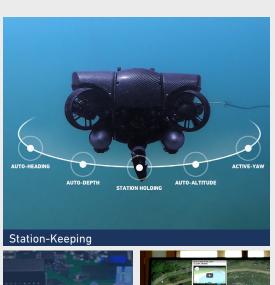
ADVANCED STABILITY AND AUTONOMOUS CAPABILITIES

The ROV is propelled by six powerful thrusters, two of which are vertically mounted for precise vertical movements and depth holding, four of the thrusters are mounted horizontally and in a vectored configuration to allow for lateral movements.

The REVOLUTION NAV package has advanced autonomous stabilization and position tracking features. Allowing operators the ability to station hold against currents and pilot their vehicle precisely and accurately through varying water conditions.

Post-dive, take your recorded GPX data alongside your video and share them with your customer or team.

VEHICLE COMPONENTS



Post-Dive Logging





POWERED BY BRIDGE TECHNOLOGY

An intelligent, technology platform from Deep Trekker.

An operating system designed with custom hardware and software; for control, integration, communication and enhanced operation.

Enable the abilty to fuse all sensor data into one handheld, weatherproof controller. See positional data, direct imaging sonar feed and more - all alongside the ROV live video feed.



Simplified control



Seamless integrations



Constant communication



Enhanced operations

Sensor Fusion

Rotating Camera Head	✓	1	
7" LCD Controller	✓	✓	
FULL HD Camera	✓	✓	
300M Depth Rating	✓	✓	
300M Tether	✓	✓	
Tether Reel	✓	✓	
Grabber Arm	✓	1	
Laser Scaler	✓	✓	
Sensor Pack	✓	✓	
Microphone	✓	✓	
Lighting	✓	✓	
2 Sets of Batteries	✓	✓	
2 Carrying Cases	✓	✓	
Fully Assembled and Tested	/	✓	
Warranty	One Year	Two Years	
Online Training	/	✓	
USBL Positioning	-	✓	
DVL	-	✓	
Field Service Kit	-	/	

EXTRA ADD-ONS

 Imaging Sonar
 NDT Tools
 Custom Tether Lengths

 Mechanical Sonar
 Grabbers and Manipulators
 Cases

 USBL
 Sediment Samplers
 Service Kits

 DVL
 Water Samplers
 Operational Enhancements

 Side Scan
 Additional Cameras
 Application Based Tools

Additional Lighting

UNDERWATER REMOTELY OPERATED VEHICLES & ROBOTS

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Head office

Water Quality Sensors

830 Trillium Dr Kitchener, ON Canada

Chile Office

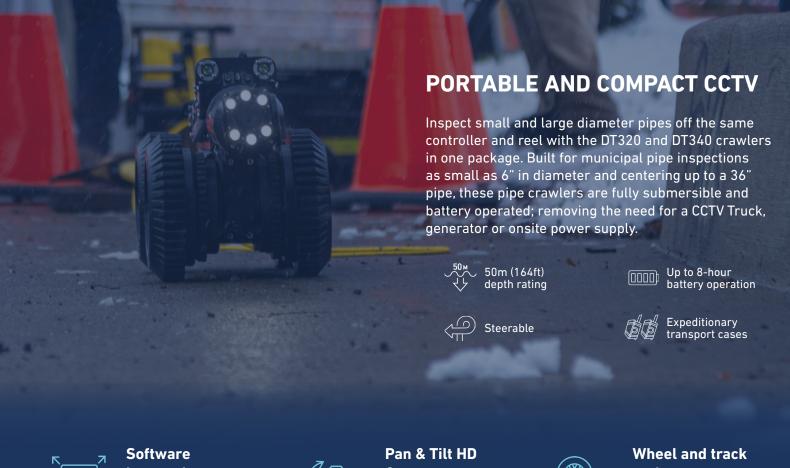
Dr Martín 580 Puerto Montt, Los Lagos Chile





Fully submersible, battery operated pipe crawlers, built for municipal pipe inspections from 6" (150mm) to 36" (900mm) in diameter.







integrations

Compatible with most sewer inspection software.



Camera

Easily view your entire pipe system with this pan, tilt and zoom camera and sapphire glass lens.



options

Interchange various wheel and track options to inspect different pipe materials.

ONE CONTROLLER. **TWO CRAWLERS**

Pipe inspections made easy. Operate the DT320 and the DT340 with its splash-proof controller. The easy to use control system reduces the learning curve for beginner operators.

Record your own video inspections or integrate with reporting software using the crawler's standard video out port.



Splash-proof handheld controller



Record video inspections with voice over via DVR



DURABLE CONSTRUCTION

Designed to support tough jobs, both the DT320 Mini and the DT340 are constructed with annodized die-cast aluminum, stainless steel and a sapphire glass camera lens. They are built to withstand the daily grind of sewer and stormwater pipe inspections.



Sapphire glass camera lens cover



Cast aluminum and stainless steel frame



Clean sheet engineering



Skid-steer

The full DT300 Package comes complete in 3 compact wheeled Pelican cases.

Deployable without the need for generators or onsite power supply. The magnetically coupled wheel drivers requires zero maintenance; no need to replace or grease.

DT300 PACKAGE | FULLY LOADED

This fully loaded kit gives you all the options available from Deep Trekker for pipe inspections. Take on any material with the various wheel kits and track sets included and enhanced tether management with the powered reel.











SCALABLE DESIGN AND ASSORTED WHEEL OPTIONS

The DT320 and DT340 can be equipped with various wheel and track options, allowing you to ensure proper inspection in various pipe diameters and materials.



Interchange between rubber and carbide wheels in various sizes



Install self-cleaning tracks on the DT340 over the wheels for multi-terrain capabilities



Pant Tilt Camera

GENERAL SPECIFICATIONS

DT320

Crawler General Specs

Width: 123 мм (5") 87 мм (4") Height:

Length: 440 mm - 630 mm (17" - 25") Weight (in air): 11 kg (25 lb) - 16 kg (35 lb)

Material: Stainless Steel Aluminum, High Strengh

Sapphire

Depth Rating: 50 м (164 гт)

Pipelines 150mm (6") Diameter to 300mm (12") Center Viewing Capability:

700 TVL Camera: 0.0001 lux

Operating Temp: -5°C to 40°C (23°F - 104°F)

Speed: 12m / minute Cases: 1 Custom Pelican Air Handle and Wheels

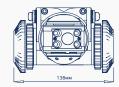
Warranty: 1 Year - Parts and Labor (optional 2-3 yrs)



19.2 VDC System Voltage: Battery Run Time: Up to 5 Hours

Sensors: Incline, Roll, Leak, Camera Pan/Tilt







GENERAL SPECIFICATIONS

DT340

Crawler General Specs

141 мм (5.55") Width: Height: 151 мм (5.96") Length: 710 мм (27.95") Weight (in air): 16.6 KG (36.59 LB)

Stainless Steel Aluminum, High Strengh Material:

Sapphire 50 м (164 гт)

Depth Rating: Viewing Capability:

Pipelines 200mm (8") Diameter to 900mm (36") Center

Camera:

1.0 lux, 10x Optical Zoom, 12x Digital Zoom

-5°C to 40°C (23°F - 104°F) Operating Temp:

Speed: 12m / minute

Cases: 2 Custom Pelican Air 1637 Handle and Wheels

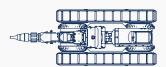
Warranty: 1 Year - Parts and Labor (optional 2-3 yrs)

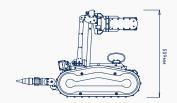


System Voltage: 19.2 VDC Battery Run Time: Up to 8 Hours

Sensors: Incline, Roll, Leak, Camera Pan/Tilt







7" LCD Controller	✓	✓	✓	✓	✓	✓
Fixed Camera	✓	-	-	-	-	-
PTZ Camera pan (360)°, tilt (280°), zoom	-	✓	✓	✓	-	-
Pan Tilt Camera pan (360)°, tilt (280°)	-	-	-	✓	✓	✓
50M Depth Rating	✓	✓	✓	✓	✓	✓
Tether Length	200M	200M	400M	400M	200M	200M
Counter Reel	✓	✓	-	-	✓	-
Power Reel	-	-	✓	✓	-	✓
Sensor Pack incline, roll, leak, camera pan/tilt	✓	√	✓	√	✓	✓
Robotic Elevating Arm	-	✓	✓	✓	-	-
Manual Elevating Arm	-	-	-	✓	✓	✓
Lifting Kit	✓	✓	✓	✓	✓	✓
Sonde	-	-	✓	✓	-	-
Software Integration	✓	✓	✓	✓	✓	✓
DVR digital video recorder	✓	✓	✓	√	✓	✓
Main Camera Lights	✓	✓	✓	✓	✓	✓
Additional Auxillary Lighting	-	✓	✓	✓	-	-
Tracks and Spacer Kit	-	-	-	✓	-	-
Carrying Case	✓	✓	✓	✓	✓	✓
Fully Assembled and Tested	√	✓	✓	√	✓	✓
Warranty	One Year					

EXTRA ADD-ONS

GIS Integration
WinCan VX-Lite
Wheels and Tracks

Additional Cameras
Additional Lighting
Custom Tether Lengths

Service Kits

Operational Enhancements
Application Based Tools

UNDERWATER REMOTELY OPERATED VEHICLES & ROBOTS

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830 Trillium Dr Kitchener, ON Canada Chile Office

Dr Martín 580 Puerto Montt, Los Lagos Chile

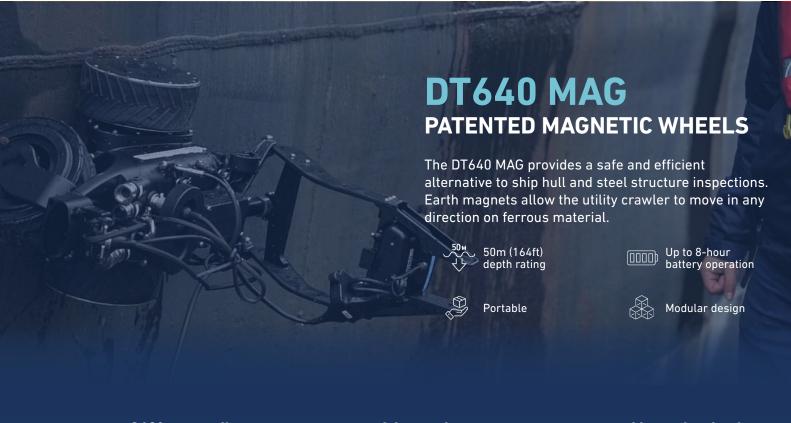


DT640 UTILITY CRAWLER

Fully submersible, battery operated, versitile magnetic or rubber wheeled utility robot.









360° turn radius

Get an instant visual on hard to reach and impossible to access environments.



Advanced sonar integrations

Identify targets of interest or obstructions within minutes, even in turbid or murky water.



Magnetic wheels

Rare earth magnets allow for travel in any direction on any ferrous metal surface.

GENERAL SPECIFICATIONS

Crawler General Specs

Material : Stainless Steel, Aluminum,

High Strengh Acrylic

Depth Rating: 50 m (164 FT)

Wheels: Patented Magnetic 2WD

Camera: 700 TVL

0.0001 lux

Operating Temp : -5° C to 40° C (23° F $- 104^{\circ}$ F)

Speed: 12m / minute
Turn Radius: 0 mm (0")

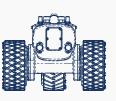
Warranty: 1 Year – Parts and Labor (optional 2-3 yrs)

Crawler Electrical System

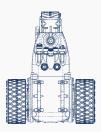
System Voltage : 19.2 VDC
Battery Run Time : Up to 8 Hours

Sensors: Incline, Roll, Leak, Camera Pan/Tilt

Deep Trekker reserves the right to amend these specifications at any time without notice.







RAPID RESPONSE VISUAL INSPECTION

The DT640 MAG provides a safe and efficient alternative to ship hull and steel structure inspections. Its onboard HD camera and live-video feed provides operators with instant visual inspections in hard to reach and often impossible to access environments.



HD camera and live-video feed



Stainless steel, aluminum, high strength acrylic frame



Modular design



Extreme durability

CYGNESS THICKNESS GAGE KIT

This ultrasonic thickness probe presses on the surface, taking an accurate measurement, even through marine growth or coatings. This is a great tool for corrosion surveys for UWILDs on FPSOs or Vessels, as well as for steel tanks and pipes and other surfaces.





PRESSURE WASHER ADD-ON

Want to use your magnetic crawler to clean off debris and marine growth? Attach the pressure washer kit to the DT640 MAG for cleaning and clearing areas from hulls, pipes and cargo holds, allowing for proper inspections and longevity.





ADVANCED SONAR INTEGRATION



0.1m to 120m range



Single and Dual frequency options available

Hull inspections made easy. Even in murky or turbid water, get the full picture of under a vessel's hull with an imaging sonar attachment for the DT640 MAG.

Identify targets of interest or obstructions attached to the hull within minutes.





360° turn radius

Get an instant visual on hard to reach and impossible to access environments.



Vacuum head options

Various vacuum head options available from 14" single intake to 24" dual intake.



Low maintenance

Compact easy to use design for frequent and safe inspections and cleaning.

GENERAL SPECIFICATIONS

Crawler General Specs

 Width:
 406 mm (13")

 Height:
 228 mm (9")

 Length:
 710 mm (27.95")

 Weight (in air):
 15 kg (34 lb)

Material : Stainless Steel, Aluminum,

High Strengh Acrylic

Depth Rating: 50 m (164 FT)
Wheels: Rubber 2WD
Camera: 700 TVL

0.0001 lux

Operating Temp : -5° C to 40° C (23° F $- 104^{\circ}$ F)

Speed: 12m / minute Turn Radius: 0 mm (0")

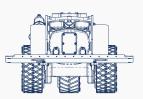
Warranty: 1 Year – Parts and Labor (optional 2-3 yrs)

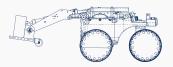
Crawler Electrical System

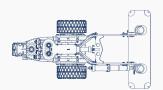
System Voltage: 19.2 VDC
Battery Run Time: Up to 8 Hours

Sensors: Incline, Roll, Leak, Camera Pan/Tilt

Deep Trekker reserves the right to amend these specifications at any time without notice.







KEEP SERVICES ONLINE

Conduct tank cleaning with the DT640 VAC without interrupting service. Avoid the dangers of having divers in the water and pump sediment from water tanks using the Deep Trekker robotic vacuum system.

NO NEED TO DEWATER TANKS

Draining tanks can be costly and time-consuming with services often offline for weeks at a time. The DT640 VAC is completely submersible and can be decontaminated prior to entering water tanks.



DT640 MAX | TOUGH JOBS WITH EASE

Built for cleaning sediment and sludge from the bottoms of reservoirs and tanks, the DT640 MAX is an easier, safer and more cost effective alternative to draining assets or utilizing divers for cleaning. The big brother of the DT640 Utility Crawler, the DT640 MAX covers more ground and moves twice as fast to tackle the biggest of jobs. Perfect for reservoirs, the DT640 MAX readily handles sediment and mud.



36" vacuum head



Tilt vacuum head 40 degrees



Pan/tilt/zoom elevated



650 lumen LED floodlights

Users can upgrade their current DT640 into the DT640 MAX in minamal time.



Raise and lower vacuum head 40 degrees





EASY TO USE CONTROLLER





Record video inspections with voice over via DVR

Tank inspections and cleaning made easy. Operate the DT640 with its splash-proof controller. The easy to use control system reduces the learning curve for beginner operators.

Record your own video inspections and provide operators with instant visuals.

5.6" LCD Controller	✓	✓	✓	✓
Forward Facing Body Camera	✓	✓	✓	✓
PT Elevated Camera pan (360)° and tilt (280°)	-	-	✓	✓
50M Depth Rating	✓	✓	✓	✓
Tether Length	75M	75M	75M	75M
Tether Reel	✓	✓	✓	✓
Sensor Pack incline, roll, leak, camera pan/tilt	✓	√	✓	✓
Magnetic Wheels	-	✓	-	-
Rubber Wheels	✓	-	✓	✓
LED Lights	✓	✓	✓	✓
Software Integration	✓	✓	✓	✓
18" Dual 2" Intake Vacuum	-	-	✓	-
36" Quad 2" Intake Vacuum	-	-	-	✓
Electric Arch Kit	-	-	✓	✓
Dual Connection Kit	-	-	✓	-
Quad Connection Kit	-	-	-	✓
Carrying Cases	✓	✓	✓	✓
Fully Assembled and Tested	✓	✓	✓	✓
Warranty	One Year	One Year	One Year	One Year

EXTRA ADD-ONS

Pressure Washer Kit

Dozer Kit

Cygnus Guage Kit

14" Single 1.5" Intake Vacuum

24" Dual 2" Intake Vacuum

DVR (Digital Video Recorder)

Service Kits

External Floodlights

Sonar

UNDERWATER REMOTELY OPERATED VEHICLES & ROBOTS

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Head office

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Chile Office

Dr Martín 580 Puerto Montt, Los Lagos Chile



A BRIEF HISTORY

INNOVATIVE ROBOTIC SOLUTIONS

Development



Expansion



Product Expansion



INSPIRED BY ADVENTURE AND BUILT FOR FUNCTION Renowned for innovation, precision engineering and quality products, Deep Trekker's product ranges include remotely operated vehicles (ROVs), pipe crawlers and utility crawlers that solve a suite of environmental and industrial issues.

DEEP TREKKER"

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