



Cariboo Chilcotin Divers Ltd.

Serving Industry Throughout Canada

Cariboo Chilcotin Divers Ltd Chinook ROV



The **CHINOOK** is an industrial grade inspection ROV with a wide range of capabilities. Depth rated to 300 m (1,000 ft).

A true workhorse, the **CHINOOK** offers a stable platform yet remains compact. With its small profile, the **CHINOOK** can operate in tight places and is easily stowed when not in use. Multiple handles and frame cross members allow two people to handle this ROV with ease.

The **CHINOOK** can be outfitted for any task by adding accessories such as extra thrusters, navigational and searching aids, manipulators, tool skids and more

BENEFITS

- Lightweight and portable
- Runs off of standard mains AC (110 or 240 VAC)
- Can be operated from the shore, a dock, or a relatively small boat
- Easy deployment, operation and recovery
- Open frame and modular components
- Rugged construction; field-repairable twisted pair tether, or, high-bandwidth fiber-optic tether
- Shipped in four portable Pelican cases
- Customizable platform for tooling and sensors
- Upgrades available: Scanning sonar, multibeam sonar, and more

TARGET INDUSTRY USES

- Aquaculture
- Forensics/Search and Recovery
- Hydro Dam Inspection
- Marine Security
- Pipeline Inspection
- Potable Water
- Marine Research
- Structural Analysis
- Salvage Operations
- Recreational



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FEATURES

- Intuitive controller
- High-resolution color, zoom camera
- Variable speed & directional ROV control
- Integrated controller with LCD monitor & Digital Video Recorder (DVR)
- Manual and automatic camera focus control
- Depth-rated to 300 m (1000 ft)
- Six (6) powerful thrusters
- Auto depth, auto heading functions
- Leak detection warning system
- Tether-launchable
- 500 ft Copper Tether or 2,300 ft Fiber Optic tether



OPTIONS

- Electric wind tether reel
- Sonar integration
- 3D positioning and tracking system integration
- Auxiliary LED lighting
- Dual-function gripper (open/close and jaw rotation) and/or cutter
- Skid-mount instrumentation or tooling platforms
- CT / UT probe integration
- Auto altitude

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SPECIFICATIONS

VEHICLE DIMENSIONS & ATTRIBUTES

Depth Rating	300 m (1,000 ft)
Size	(L x W x H) 86 mm x 384 mm x 406 mm (27" x 15.1" x 16")
Diagonal	533 mm (21")
Weight in air	~ 33 Kg (72 lbs) (6-thruster vehicle trimmed for fresh water)
Construction	Anodized aluminum, stainless steel, syntactic foam and marine grade poly

THRUSTERS

Configuration	Two (2) or four (4) horizontal and two (2) vertical/lateral thrusters
Speed	2 knots (dependent on environment and operation)

FORWARD CAMERA AND LIGHTS

Type	Colour 1/4" CCD (FCBIX11A(P) Sony)
Sensitivity	1.5 lux minimum
Format	NTSC or PAL (full broadcast-quality SD resolution)
Focus	Manual and Automatic
Zoom	10x optical
Tilt Range	+/- 90 degree rotation
Lights	two (2) x 1,500 lumens (3,000 lumens) dimmable high-intensity LED

AUXILIARY CAMERA AND LIGHTS

Type	Color
Sensitivity	< 1.0 lux
Format	NTSC or PAL
Focus	Fixed
Lights	two (2) X 1,500 lumens (3,000 lumens total) on/off control

TETHER

Length	500' Copper or 2,300' Fiber Optic
Diameter	10 mm / 0.4 inches
Breaking strength	700 Kg Copper or 70 Kg Fiber Optic
Weight in water	Neutrally buoyant in fresh water

SENSORS

Pressure / Depth
Compass heading and Focus Distance
Pitch and roll
Dedicated leak and temperature sensors in both the electronics and camera canisters

CONTROL SYSTEM

Pelican Case mounted controller
Built-in 19" LCD monitor and digital video recorder
Video overlay: depth, heading, auto-depth, auto-heading, pitch/roll, turns counter
Date & time



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Cariboo Divers Chinook Remotely Operated Vehicle



CCD Ltd Chinook ROV, will fit inside a 24" Pipe