



**BUSCH MARINE INC**

[www.BuschMarine.com](http://www.BuschMarine.com)

# **Experience Seamless Ocean Exploration with the MPV Christina Busch—Busch Marine's Premier All-in-One Mission Solution**



**EXPLORE THE OCEAN LIKE NEVER BEFORE ... TO 6000M**

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**734 JERSEY ST, PLAINWELL MI 49080 USA**



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## **Why Choose Busch Marine?**

Eliminate the hassle of coordinating multiple suppliers and piecing together separate systems. The MPV Christina Busch from Busch Marine Inc. is your comprehensive, turnkey answer for ocean research, combining critical components you need into one ready-to-launch vessel. With its 25,000lbs Nautilus crane, 4,000lbs Launch and Recovery System (LARS), Dynamic Positioning, and advanced three-point anchoring, everything required for deploying, retrieving, and stabilizing heavy or sensitive equipment is already on board—no need to source or integrate extra gear.

The vessel's onboard laboratory allows you to analyze data as it's collected. The included tender boat, two 6000M Remotely Operated Vehicles (ROVs), and a 6000M towable research vessel provides unmatched versatility and access to both shallow and deep environments—all without the delays and costs of renting or adapting outside equipment.

You'll also find a suite of advanced scientific and sub-sea tools, including hyperspectral imaging systems enhanced by AI-assisted learning, ensuring that every aspect of your mission is supported from the moment you set sail. By offering a complete package—meticulously designed to work together—Busch Marine Inc. saves you precious time, minimizes loading costs and logistical complexity, and reduces budget overruns. With the MPV Christina Busch, you're free to focus entirely on discovery, confident that every tool, system, and support is already in place to make your expedition an outstanding success.

With Busch Marine, you don't have to spend a week or more loading and installing equipment from multiple vendors—it's already onboard.

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## MPV Christina Busch

120' DP Multi Purpose Offshore Support Vessel



MPV Christina Busch is an advanced platform for scientific discovery. Our dynamically positioned vessel facilitates oceanographic, biological, cultural heritage, and geophysical research by serving as a mobile work platform and laboratory.

Outfitted with sophisticated technology, ocean-going satellite communications, and comfortable living quarters, MPV Christina Busch enables multidisciplinary teams to conduct high-caliber research while on the open sea.

- Hyperspectral Imaging with AI-Assisted Learning
- Marine Habitat Restoration
- Geology & Mineralogy
- Climate Studies
- Resource Assessment
- Environmental Monitoring
- Photogrammetry
- Cultural Heritage
- Marine Ecology

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## **MPV Christina Busch**

Vessel Accommodations



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## **MacArtney Mermac R10 Winch**

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The winch system is an electrically driven winch ensuring robust and advanced handling systems which safely control the launch, operation and recovery of work class and inspection ROV systems. The winch is extremely dependable, offers high performance and is easy to use. Its design is compact and consists of modular systems. Several components are standardised, making it easy to specify, adapt or upgrade to the performance and capacity required.



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## MPV Christina Busch

### Vessel Description

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#### MAIN CHARACTERISTICS

VESSEL NAME: CHRISTINA BUSCH  
FLAG PORT OF REGISTRY: USA  
GROSS TONNAGE: 99 TONS

#### VESSEL DIMENSIONS

LENGTH: 120'  
BEAM: 26'  
DEPTH: 9'  
CLEAR DECK SPACE: 70'X25'  
DECK LOAD: 100 TONS

#### PROPULSION

MAIN ENGINES: DETROIT DIESEL  
MODEL: 16V92  
MAX HP: 1200 HP  
STEERING: HYDRAULIC  
REDUCTION GEARS: TWIN DISC  
MODEL: 527  
STERN CONTROL: YES  
SPEED: 12 KNOTS  
BOW THRUSTER: 200 HP  
PROPELLERS: 2

#### ELECTRONICS

RADARS: 3 FURUNO  
RADIOS: 2 VHF, 1SSB  
FATHOMETER: YES  
INTERNET: STARLINK GLOBAL O-G  
GPS: 3 COMNAV, FURUNO, GARMIN  
NAVTEC: YES  
PLOTTER: YES  
ECDIS: FURUNO  
DYNAMIC POSITIONING: DP BEIER RADIO SYSTEMS

#### CAPACITIES

FUEL CAPACITY: 32,000 GALLONS  
POTABLE WATER: 2,000 GALLONS  
BALLAST WATER: 65,000 GALLONS  
FIRE MONITOR: YES  
ANCHOR WINDLASS: YES  
ANCHOR: YES (3 POINT ANCHOR SYSTEM)

#### GENERATORS

MAKE: 3  
MODEL: 2-DD 371 40 KW, 1-CAT 3406 260 KW  
HORSEPOWER: 120 HP, 375 HP  
VOLTAGE: 110, 208, 415, 416

#### SPECIAL EQUIPMENT

25,000 lb Nautilus crane, man-rated  
4,000 lb Launch and Recovery System  
HPU FOR DECK GEAR  
MACARTNEY R10 FIBEROPTIC WINCH WITH 17,000' CABLE  
BADGER, CHASE/SURVEY BOAT—8X18X2, 30 KNOTS  
Full selection of diving equipment  
Edgetech 4200 Side-scan sonar  
MAGNETICS MAGNETOMETER  
Survey grade GPS  
SonarWiz mosaicing software  
Tracklink USBL  
Photogrammetry software  
Two 6000M ROVs

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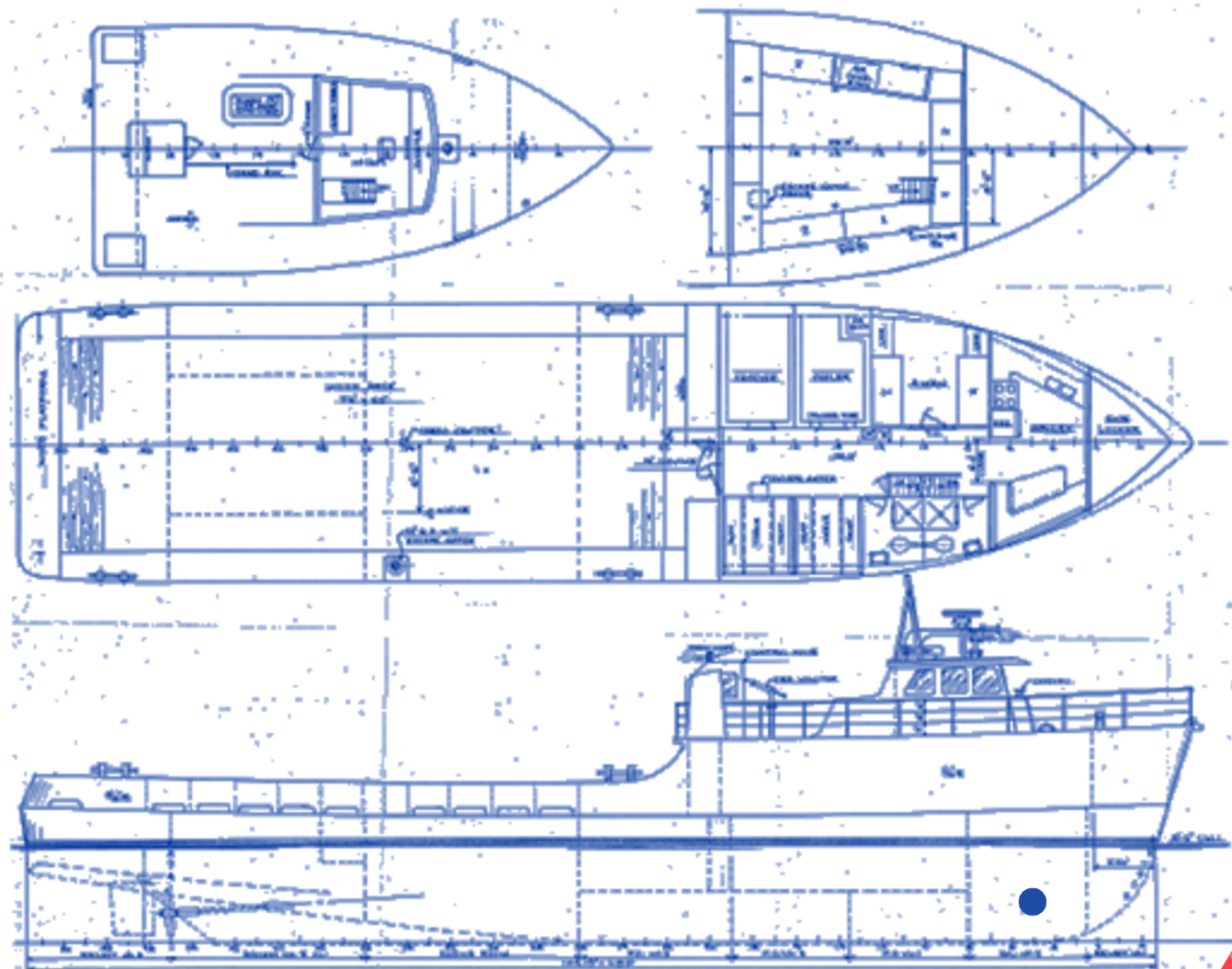


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# MPV Christina Busch

Vessel Drawings

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\*Crane and LARS not shown

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# Survey and Chase Boats

## Somerset III

SIZE: 30" X 11'6" X 3'

ENGINES: 2 CRUSADER  
454 350HP

Full navigation equipment

2 Davits for equipment

10,000 lb equipment winch

1,000' cable reel

110 v ac inverter

Galley with microwave and refrigerator

Bathroom

2 bunks

30 knots top speed

TriAxle trailer

Weight 17,000lbs

Road towable



## Badger

SIZE: 18' X 8' X 2'

ENGINES: Mercruiser I/O 230

Full Navigation Equipment

30 knots max speed

1996 EZ LOADER Boat Trailer

Weight 4,600 lbs

Road towable



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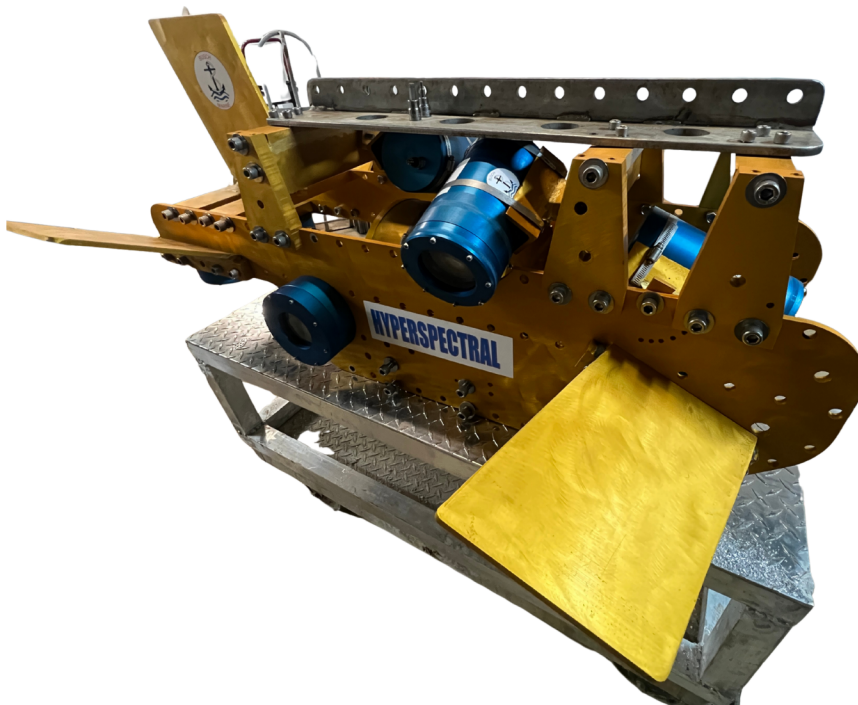
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# Deep Ocean Surveyor

## Key Features and Instrumentation

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Non-Invasive, Low Disturbance Towable Research Vessel  
6000M Depth Rated  
Hyperspectral Imaging System with AI-Assisted Learning  
Still and Video Cameras  
Proprietary 2700K - 6500K Lighting Array  
Photogrammetry  
Side Scan Sonar  
Altimeter and Automatic Altitude Hold  
Electromagnetic Conductivity



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# Deep Ocean Prospector

## Key Features and Instrumentation

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Work Class Dredge ROV  
6000M Depth Rated  
Venturi Dredge  
Specimen Sample Collector Tray  
Sediment Classification System  
Hyperspectral Imaging System  
with AI-Assisted Learning  
Still and Video Cameras  
Electromagnetic Conductivity  
Photogrammetry  
Scanning Sonar  
Altimeter and Automatic Altitude Hold  
Schilling Conan 7F Manipulator-250 lb Extended Horizontal  
Lift Capacity, Interchangeable Grips  
Proprietary 2700K - 6500K Lighting Array



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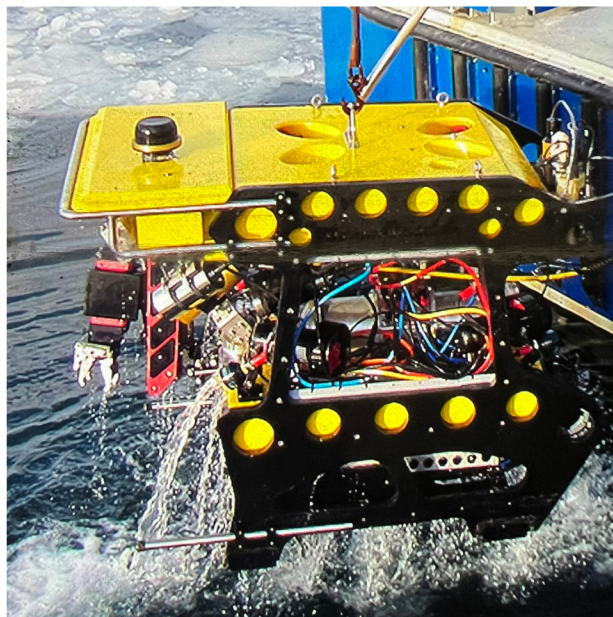
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# Light Work-Class 6000M ROV

## Key Features and Instrumentation

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Light Work-Class ROV  
6000M Depth Rated  
Exail ARM 5e Manipulator with 27kg Extended Horizontal lift  
Capacity, Interchangeable Grips  
Unique 360° Maneuvering System  
Detachable Marine Habitat Restoration and Remediation Skids  
Proprietary Multi-Temperature Lighting Array  
Altimeter and Automatic Altitude Hold  
Hyperspectral Imaging System with AI-Assisted Learning  
Still and Video Cameras  
Electromagnetic  
Conductivity  
Photogrammetry  
Scanning Sonar



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# PC1201 1000' 3-Person Certified Submersible

## Key Features and Instrumentation

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Classification: +A1 Manned Submersible by the American Bureau of Shipping (ABS)

PC1201 comes complete with a 20-foot workshop/spares container equipped with everything necessary to support operations either from a vessel or in a remote location. PC1201 has a wide array of optional equipment, from seven function manipulators to high resolution color imaging sonar.



This highly maneuverable craft is powered entirely by Lithium batteries housed in external pods. The submarine accommodates two passengers and a pilot and uses a main propulsion motor and four thrusters for excellent maneuvering capability. It is equipped with powerful LED underwater lights to enhance viewing in deep/dark water or to bring out the natural colors not seen with ambient light at depth.

Visit [www.BuschMarine.com](http://www.BuschMarine.com) for a comprehensive specifications and capabilities list.

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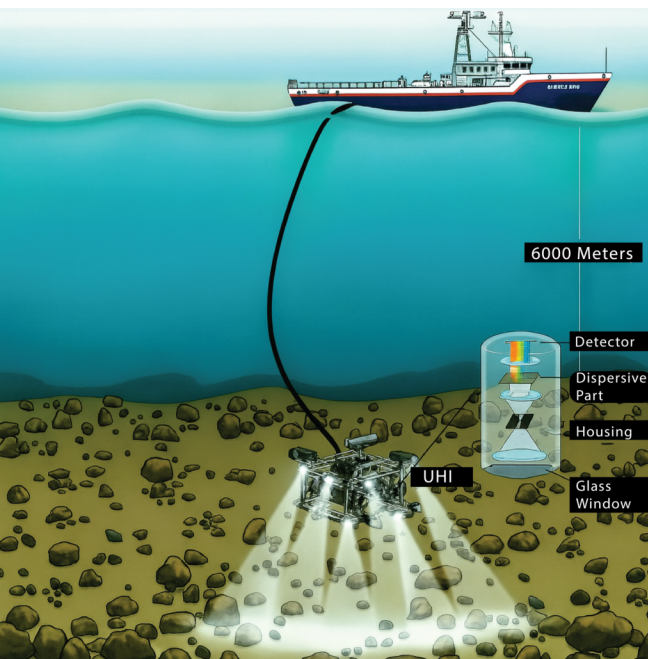
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# Underwater Hyperspectral Imaging (UHI)



Our UHI system, lights, and 4k RGB cameras allow us to see the sea bed and water column with unprecedented insight.

By towing our Deep Ocean Surveyor or operating our Deep Ocean Sampler, we can identify the composition of the sea floor, from minerals to organic life, in situ.

Simplistically, Underwater Hyperspectral Imaging is like a super-powered camera that sees the ocean and all below it, in way more detail than your eyes or a regular camera can, by capturing a unique "fingerprint" of light for everything it looks at.

This ability to "see the invisible" has tons of practical uses underwater:

- **Geology and Mineralogy:** Surveying of mineral sands, manganese nodule fields, sediment composition, and mineral deposits.
- **Resource Assessment:** Evaluation of seabed minerals and site suitability studies. Surveys for precise habitat mapping, metric assessments, and temporal change detection across complex seafloor terrains.
- **Environmental Monitoring:** Detection of pollution, environmental impact assessments, and disaster response (e.g., oil spills, submarine landslides).
- **Underwater Infrastructure Inspection and Maintenance:** Identify cracks, biofouling, pitting, etc. on oilrigs, platforms, submerged infrastructure for maintenance and repair.

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# Rental Equipment Available

## For Individual Rental

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- Edgetech 4200 Side-Scan Sonar
- Magnetometer
- 4k TV Cameras
- Pivot Navigator ROV
- AC-RO50 ROV
- ROV Testing Pool with current at our facilities in Plainwell Michigan

Contact us today for pricing and availability.

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