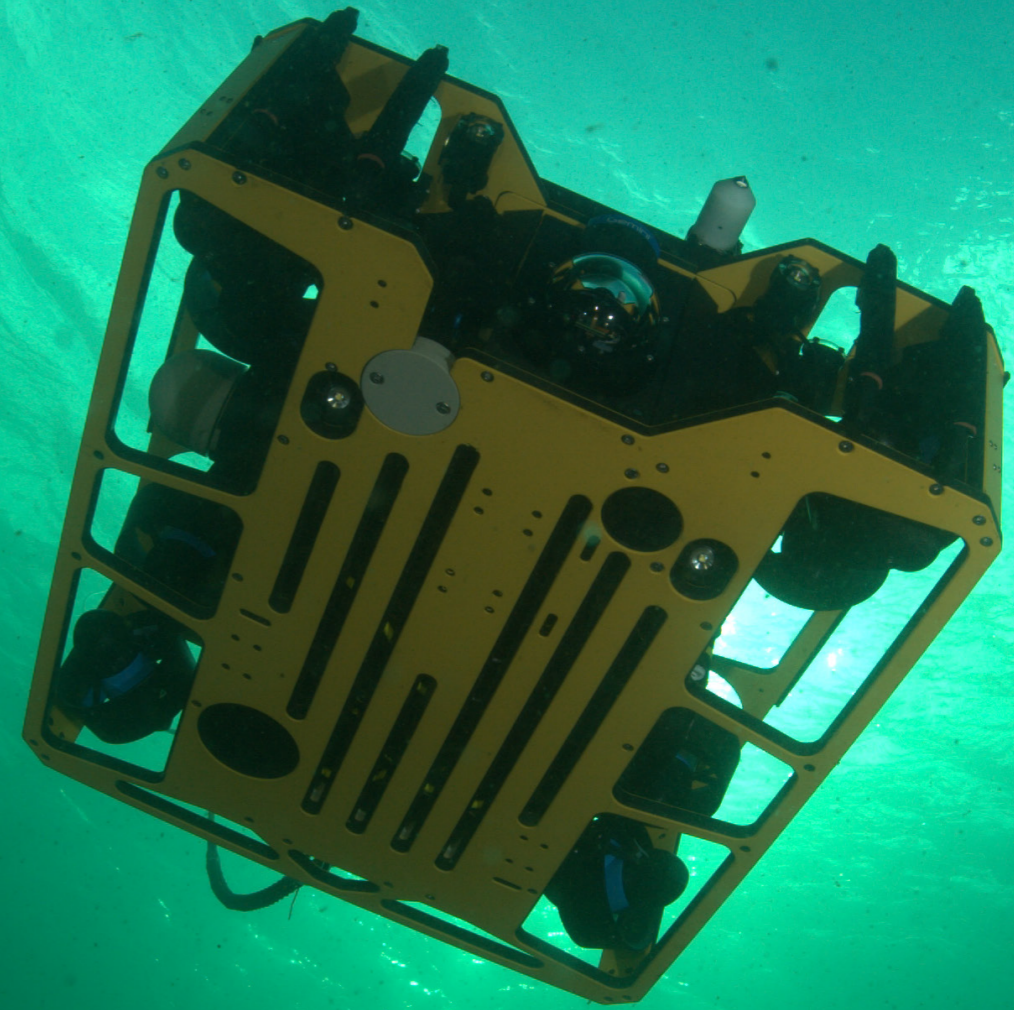




BEYONC™



Contact

sales@beyonc.no

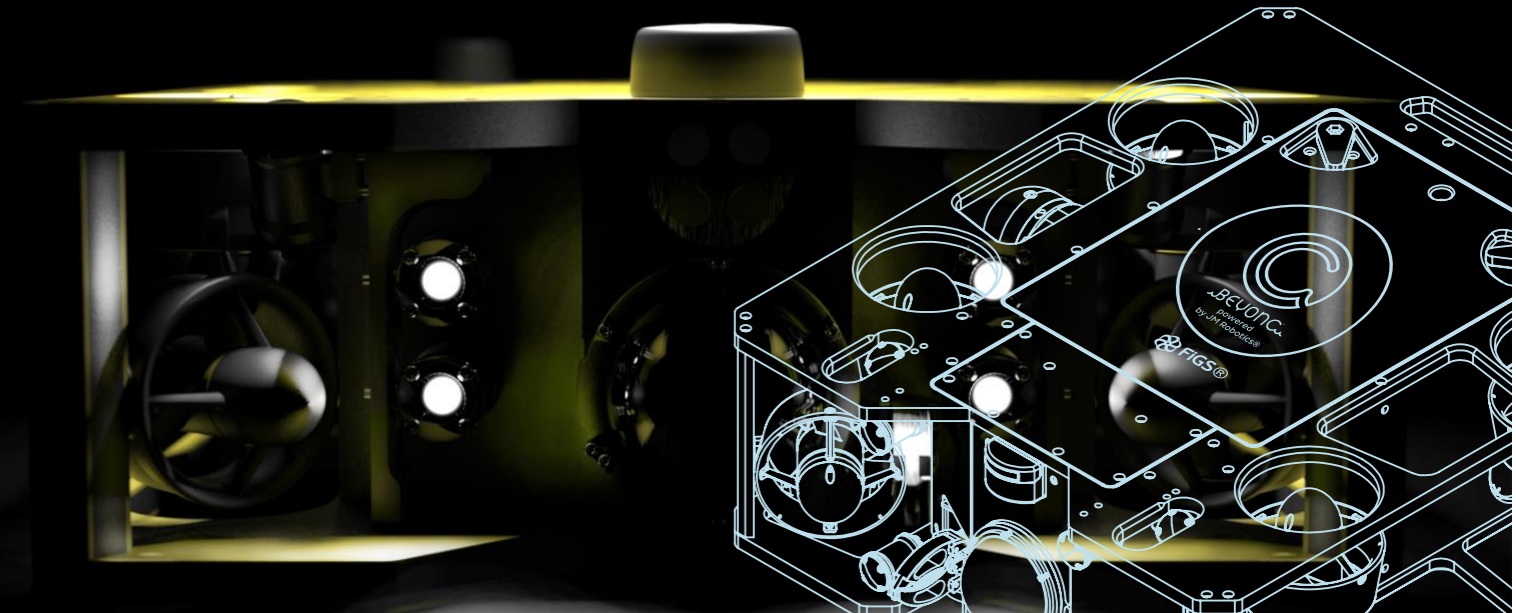
Online Support:

Remote support is pre installed on ROV and Toppide Powersupply .
With Remote support we can troubleshoot, update and maintain your ROV system.
ROV is prepared with 2x auxiliary for extra equipment. (USB and Ethernet 12V
and optional Serial data)

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Beyonc Mini ROV



Developed by BeyonC® AS

JM HD3C-FiGS® is a patent pending ROV system developed in collaboration with JM Robotics® AS. The ROV is designed to handle cold waters and demanding environments. This is a proper underwater tractor that can withstand use in the most demanding conditions along the coast. It has a depth capacity down to 300 meters, and it comes with 3Kw Topside Power System with ground fault monitoring. JM HD3C-FiGS® is robust, flexible with DVL, sonar and underwater positioning.

JM HD3C-FiGS® is the only mini ROV fully integrated with FiGS®



TECHNICAL SPECIFICATIONS

Physical

Length 740 mm
Width 660 mm
Height 240 mm w.o. sensors
Weight in Air w/o ballast 36kg
Weight in Air w/ ballast 38 kg
Construction Frame HDPE Plastic
Electronics Enclosure 4" Series aluminum
Power Supply 3" Series aluminum
Buoyancy Rated to 488m
Ballast Weight 6 x 200 g Stainless Steel

Performance

Maximum Rated Depth 300 msw
Maximum Forward Speed 1,5m/s, 3 knots
Thrusters BR T500 with connectors
ESC Basic 500 Max Current 50A
Thrusters Configuration 8 thrusters
- 4 Vectored
- 4 Vertical
Forward Bollard Thrust 35kgf
Vertical Bollard Thrust 50kgf
Lateral Bollard Thrust 35kgf

Camera

Camera 1080p HD, low-light
Camera Field of View 110° horizontally
Tilt Range +/- 90 degrees
Tilt Servo Hitec HS-5055MG
Lights 12000 Lumens total
Brightness (with dim control) 8 x 1500 lumens
Light Beam Angle 135°

Sensors

FiGS® 2.0 sensor
DVL
CTD sensor
CP stabber
Realtime sonar
3-DOF Gyroscope
3-DOF Accelerometer
3-DOF Magnetometer

Internal Temperature sensor
BR Bar30 Pressure/Dept & Temperature Sensors,
external Current and Voltage Sensing
Leak Detection

Aux equipment:

Side Scan sonar
USBL
Scanning sonar
3D Camera
Laser Scanner

External Interface

2 AUX Input and 24V w/ USB and/or Ethernet

Power supply

Length 420 mm
Width 480 mm
Height 220 mm
Weight 11,5 kg
Input Voltage 180-240 VC, 50-60 Hz
Input Current Max(fuse) 16 A
Output Voltage 340 - 400 VDC
Output Current Max 7,5 A
Output Power Max 3000 W
Operating Temperature -20 to 60°C
Humidity 20-90% RH non-condensating
Safety Auto. Ground failure detection
IP ratings IP20 (waterproof case)

Tether

Sheath colour Yellow
Diameter 13 mm
Buoyancy in salt water Neutral
Working strength 150 kg
Breaking strength Min 230 kg
Max Voltage Power Conductors 1 Kvolts
Max Voltage Data Conductors 600 volts
Static bending radius >5 x outer diameter
Dynamic bending radius >12 x outer diameter

**BOTH ROV AND POWER SUPPLY
COMES WITH REMOTE SUPPORT!**

Special features

Worlds only mini ROV fully integrated with FiGS®

6 DOF flying capability with attitude control, 6 DOF station keep with DVL
All auto functions (heading, depth, altitude, attitude)
Full instrument integration capabilities
Gigabit ethernet
Hand carry size

