



## Contact;

MSV Explorer Ltd  
Queensgate House  
48 Queen Street  
Exeter  
Devon (UK)  
EX4 3SR

Telephone: (+44) 1392 248584  
Fax: (+44) 1392 410436  
Web: [www.msvexplorer.com](http://www.msvexplorer.com)  
Email: [sales@msvexplorer.com](mailto:sales@msvexplorer.com)



**msv  
explorer**

Seawork Innovation Showcase Award Winner for Diving & Underwater Technology 2011

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# *2011 Seawork Innovation Showcase award winning MSV Explorer, brings marine world closer to everyone without the fright or the bite.*

## *Design Epiphany*

Due to a close encounter with a large Shark whilst swimming half a mile off shore, Concept Designer Chris Garner has developed a range of unique craft that provide the public with the opportunity of experiencing first hand the diversity of the Marine Environment in comfort and total safety.

### *MSV Explorer*

Whilst the MSVEX looks like a mini-sub, it is in fact an electrically powered, dual joystick controlled, dry cockpit surface water craft, meticulously designed and engineered to place two observers within an acrylic cockpit below the surface of the ocean at a constant 1.2 metres, with a topside principal pilot seat.

Altogether, the MSVEX provides a completely breathtaking 360 degree panorama of the sub-surface marine environment for the two observers sitting side by side in the lower cockpit and a full 360 degree topside visibility for the principal pilot sitting above, without the need for scuba gear or any specialist training.

To control the MSVEX is simplicity itself, with dual joysticks and topside joystick override. Simply push the joystick in any direction and you go. The MSVEX is so manoeuvrable it is capable of turning on its own axis and is powerful enough to keep pace with large marine creatures such as the awesome Whale Shark.

Although the standard MSVEX has been designed to meet the needs of Sea Safari Tourism, with a tactile, simple and intuitive control system for all to use during the day or night. Other models are also available to support many more Commercial Marine Activities, such as Film making, TV documentaries, Surveying, Security, Treasure hunting and Marine Conservation.

MSVEX rig with Mk1 explorer



### *MSV Explorer SP-02 (Combined Rig)*

Although developing the MSVEX models could be deemed as a large enough step to take, it was clear to our designer, that whilst in the water all mini subs and similar craft such as the MSVEX are within their intended element, delivery of such craft into the ocean is inherently problematic.

Accordingly, Chris Garner has also designed a range of purpose built catamarans with a unique hydraulic lifting bay set within the floating hulls at the rear of the vessels, which quickly and safely deploys and recovers all MSVEX models and any other similar size craft up to 3 tonnes for the smallest MSVEX SP-02 catamaran (at 13m x by 5.7m) and up to a massive 12 tonnes for the largest catamaran in the range, being 18 metres x 7 metres.

All the MSVEX SP-02 cats are extremely robust, quick and economical to run, are coded category 2+ and can carry 12+ paying guests, with full live aboard facilities on board the larger vessels for extended Sea Safari Charters, making the MSVEX Safari Rig a Spectacular Quayside Turn Key Operation within any Five Star Resort areas around the world.



## The MSVEX Safari (Marine Tourism)

Please Note: The Supply of all MSVEX Models is Restricted to Commercial Operators only

As anyone who has enjoyed the Discovery Channel will know, the majority of interesting marine life can be viewed within the first 10 metres below the surface of the ocean.

This is the Ocean Band within which MSVEX Safari excels, as two passive observers can sit dry and in comfort behind the 40mm thick inverted acrylic hemisphere on the lower cockpit and enjoy the breath taking 360 degree panoramic view of all that surrounds, with the sounds of the ocean imported into the cockpit by virtue of the inbuilt hydrophonic system.

Add to this, the passenger hands on control option, along with a mounted wide angle underwater camera to capture the experience, which can be downloaded onto your own memory stick. This is truly an experience of a lifetime, for all age groups, as from this vantage point you will be able to observe first hand, Whales, Dolphins and for the more adventurous, a face to face encounter with the mighty Great White Shark, all in complete safety, without the need for scuba gear and dive cage.

Due to the unique qualities and specifications of the MSVEX Safari, it is considered to be top of its class in the world and is set to revolutionise Cage Diving, Whale Watching and Marine Tourism.

## MSVEX Movie Machine

In essence, the MSVEX Movie Machine is the largest motorised, pilot controlled Marine Camera Housing ever built and provides the following remarkable advantages. Importantly, scuba airtime, underwater camera and lighting battery use cycle, are no longer an issue. Neither is the cold, risk insurance or film footage window an issue.



Who's zooming who

The MSVEX Movie Machine needs only two crew, one to operate the Can-z Joystick controlled gyroscopically stabilised camera and platform, with all functions on the joystick from pan and tilt to zoom and shoot and the other crew member to record sound and control direction of the craft. There's even a spare seat for a presenter or character.

If you add into the mix that the MSVEX Movie Machine has dual joystick controls, a dedicated camera control joystick, high resolution proximity sonar, a massive under, over, around, high lumen led lighting array and the power to passively track and shoot all day or night, though bold, you can understand and hopefully endorse our claims.

In conclusion, the MSVEX Movie Machine provides any Film or TV Production Team with the following benefits and advantages:

- Mitigated risk...
- The only purpose designed machine in the world from which to obtain the Best Footage without time limitations...
- Dramatic Saving on Production Time and Costs...

Here again, the MSVEX Movie Machine represents the best tool and shoot platform in the World for the first 10 metre band of ocean and is set to revolutionise Marine Film Production.

MSVEX rig with Mk1 explorer





## MSVEX Survey

(Surveying, Marine Conservation, Security and Treasure Hunting)

The MSVEX Survey, Security, Conservation and Treasure Hunter specification, provides all the principal tools required for an efficient operating window. It is inherently safe, along with a comfortable and dry environment from which to function. It has full under, over and around, high lumen led lighting system, over and under gyro stabilised pan and tilt HD cameras, high resolution colour data store monitors, hydrophonic system, high resolution proximity sonar and last but not least, a joystick controlled mini ROV with lights, camera and uplink to monitor in the lower cockpit.

The standard Mini ROV rated to 150 metres, is housed, released and returns to its own bay. It is situated under the front of floating hull of the MSVEX survey model and extends and returns by way of a remote controlled retractable umbilical.

For the Surveyor or Security personnel, the benefits are undeniable, in that any floating asset can be quickly and safely inspected below the waterline from stem to stern, with all data filmed and stored, without the need for scuba divers. The benefits are of equal importance for the Marine Biologist or Treasure Hunter, with time not being the limiting factor.

MSVEX rig with Mk1 explorer

## The Unique MSV Explorer SP-02 Lifting Catamaran

Apart from being able to deliver and recover all MSVEX Models, the unique range of SP-02 Lifting Catamarans have been designed by Chris Garner to serve as Heavy Duty Multi Role Commercial Vessels.

### VERSATILITY

The SP-02 lifting catamaran delivers rapid launch and recovery of any payload, in any situation. The vessels shallow draft allows her to operate close inshore, and a choice of inboard/outboard and jet propulsion packages is available to suit the Client's requirements for speed.

### SAFETY

Excellent sea-keeping and proven navel architecture provide a stable platform for the lifting of heavy objects into and out of the water. The centrally mounted, stern accessed lifting system provides optimum stability during the process, reducing the risks of working over the side and ensuring a smooth and controlled lift.

### BESPOKE DESIGN

We are able to deliver the SP-02 Catamaran in any colour to match the Client's Brand. In addition, the wheelhouse and deck area can be customised to carry specialist technical gear (for maintenance work to floating structures for example) or extra leisure equipment.



# Testimonials

## Super Yacht Times

*"The MSV Explorer adds a whole new dimension to the world of marine leisure and soft adventure. It enables families and friends to explore the underwater environment together in a quiet and non-intrusive vessel that is electrically propelled to reduce its impact on marine ecosystems. No special qualifications are required to drive the highly manoeuvrable MSV Explorer which can be easily controlled by single or dual joystick, or remotely controlled from the launch and recovery catamaran."*

## Super Yacht World

*"An amazing new sub-surface viewing craft, the MSV Explorer, designed by Chris Garner and built under licence by GRP Laminates, has won the Seawork 2011 Award for Innovation in the category of Diving and Underwater Technology."*

## Charter World

*"This unique new system, designed by British inventor Chris Garner, adds a new dimension to the world of marine leisure and soft adventure. No specialist dive training is required to use the MSV Explorer which offers a clear, unobstructed and comfortable view of the undersea environment. It can be rapidly deployed thanks to the SP02 catamaran which offers long range, shallow draft, high speed and comfortable seating for 12 passengers plus crew with space for additional scientific, broadcast or leisure equipment on board."*

## Marine Insight

*"Exploring and enjoying the underwater marine life requires professional quality equipment or else the whole expedition might turn out to be an unpleasant experience. If you are one of those who adore the blue world beneath the sea water surface then the MSV Explorer Sub-surface is the right thing for you."*

## La Luxury Living

*"MSV Explorer's utility does extend beyond pleasure and leisure trips. It will be ideal for marine patrols and marine rescuers. The dry cock-pit and panoramic view of the underwater is a luxury for current marine researchers and rescuers. Moreover, it opens up possibilities of under water cruising too. Kudos to the design and the concept!"*

## Luxury Launches

*"The Explorer is designed to offer an "unobstructed and comfortable view of the undersea environment" and can have four people on board at a time. The yacht can hit seas quite quickly, thanks to the SP02 catamaran that can hold as many as 12 passengers apart from the crew, and also lets you carry "scientific, broadcast or leisure equipment" along. "*

## Just Luxe

*"The MSV Explorer's uses, commercially and leisurely, coupled with its ease of use makes it very appealing. It is steered with a joystick. Chris Garner is the designer of the MSV Explorer and the SP02 support vessel."*

## Bornrich

*"We have another revolutionary new submersible by British inventor Chris Garner that also adopts the upside down design, but with a difference. The MSV Explorer sub-surface viewing craft is intended to be used with a 13-metre lifting catamaran for launch and recovery."*

## Made Mansion

*"The MSV Explorer is a personal, electric submersible for people who love the ocean but don't like to get their feet wet. It has a 7.5 hour operating time and is highly manoeuvrable with a single or dual joystick. Launching the Explorer is easy with the MSV SP02 catamaran."*

## Diseno-Art

*"The MSV Explorer was designed by British inventor Chris Garner. He wanted to create an undersea vehicle which required no special training or special equipment and which was inherently safe. The MSV Explorer can either be controlled by a joystick within the underwater cockpit or via remote control from an operator on the catamaran."*

## Marine News 24

*"Both the MSV Explorer and the SP02 lifting catamaran are built in the UK. The unique lifting system on the catamaran was originally designed to help with the rescue of stranded marine mammals."*

## Sea Discovery

*"The superb MSV Explorer sub-surface viewing craft and its versatile support catamaran featuring a unique lifting mechanism. "*

## Maritime Journal

*"MSV Explorer Limited was delighted to receive the award for the revolutionary MSV Explorer, a radical new self-propelled, sub-surface viewing pod designed by Chris Garner. The unique vessel was launched at Seawork 2011, together with a purpose designed 13m launch and recovery catamaran, the SP02."*