



## HAND HELD CAMERAS

Many underwater operations require an online video system in a way that the supervisor or surveying engineer can visualize immediately the object of interest and give the correct indications to the diver how to proceed.

For this purpose, Mariscope has designed compact cameras with stainless steel or titanium housing, easy in handling and use with cable bounded online transmission. These system are equipped with external high output LED lights or with internal LED rings, making it very compact and resistant. Light intensity is controlled from the surface.

The operator at the surface has the opportunity to record the images in HDD or other recorders also in the laptop with a frame grabber card.

Cameras are available in color or B/W and with a variety of different lenses. Mariscope offers also sophisticated zoom cameras, so that the operator at the surface has the possibility to adjust focus and angle without interfering with the diver. The cameras comes with fixed focus or zoom lense. The types of camera and

lenses are chosen according to the client's needs. The same is valid for the type of lenses. The camera housing is made of stainless steel AISI 316 L or Titanium.



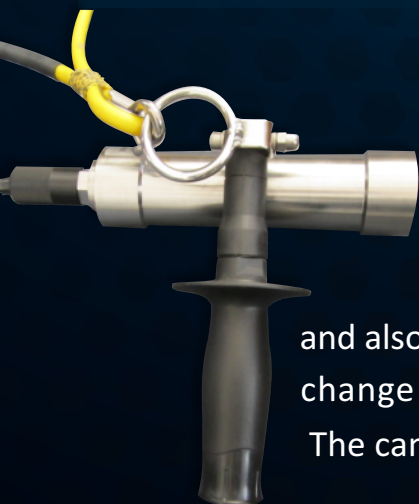
### Camera with multicolor illumination

Specially developed for explosive ordnance disposal unit

and also recommendable for scientific purposes due to its ability to change the colors of the underwater illumination from the surface.

The camera and lighting have been built under the highest quality standards and with the best materials.

Highly Reliable  
**Technology**



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Mariscope Ingeniería



### Technical specifications

Resolution:	Depending on the type of camera
Sensibility:	Up to $10^{-4}$ lux
Lighting:	High output LEDs in stainless steel housings with special lenses. Alternatively for compact versions, a LED ring is included in the camera housing
Cable:	Multi-polar umbilical with 5000kg tensile strength. Outer Jacket of PUR.
Cable reel:	Plastic or stainless steel cable reel. Slip rings as an option for stainless steel reel only.
The console includes professional screen, power supply, HDD recorder, light dimming and camera control functions.	
Dimension:	Starting from 25 mm in diameter

Connectors: All connectors are SEACON Wet-Mateable type connectors.

#### ILLUMINATION

- o High output cluster LED
- o Illumination angle:  $110^{\circ}$
- o LED colors: Red, Green, Blue and White.
- o Light power: 1368 lm.
- o Aluminum housing with a hard anodize surface.

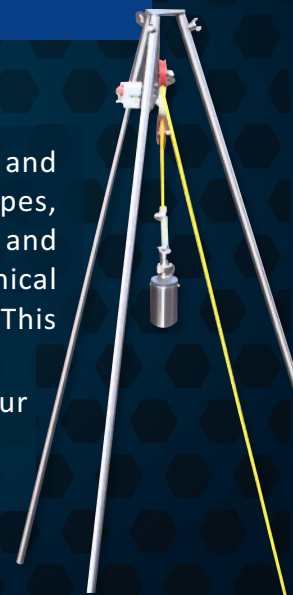
### Accessories

- GPS Mouse for the position of the boat/platform in video overlay
- Text generator and Keyboard. This feature allows to overlay a text to the video images during recording
- Stainless steel Tow Frame.
- 15" – 19 "monitor.
- Waterproof monitor and console (waterproof during operation)

## Cameras for Wells

This type of cameras has been developed for an innumerable amount of applications and problems clients have in water wells. To be able to have a look in water wells and pipes, often you need cameras of reduced dimensions, dimmable light, special view angles and macroscopic focus. For this kind of use, Mariscope developed a series of technical solutions, based on special cameras and lighting, adapted to the different tasks. This includes high resistant cables, cable meters, special tripods and others.

We design and manufacture special systems according to the specifications of our clients. The displayed photos are examples of products and special systems.



## Helmet Cameras

In the line of products for professional diving, Mariscope presents various cameras for online use that can be mounted on full face masks or diving helmets.

The cameras are all manufactured in AISI 316 L stainless steel or Titanium housings, following the requirement of the clients. The cameras can be equipped with internal LED rings for illumination or with external high output LED lights in separate stainless steel or hard anodized aluminum housings.

The intensity can be altered from the surface console. Depending on the requirement, cameras can be delivered with special wide lenses, high sensibility or with variable zoom and focus lenses. The online systems are delivered with surface consoles that can be equipped with professional monitors and recording devices. The underwater cameras have power supplied through the surface console. You can choose between 12/24/36v input, power supply through internal batteries or 230 VAC external power, according to your needs.