



## CAMERAS AND SPOTLIGHTS

*The SUB MINiCAM and the SUB MINiCAM SET are new generation underwater video cameras.*

*They are built using the combination of new techniques and materials to ensure maximum performance in terms of reliability, resistance to high pressures and external corrosion.*

*They use our exclusive patent called "Self Sealing System" which utilises a double container of different material, and a series of seals, to create a single watertight case and exploit the force exerted by the underwater pressure for greater sealing.*

*In addition, the watertight isolation of the two internal compartments between lens, glass and CCD circuit, prevents internal fogging in the presence of large temperature variations ensuring utmost clarity of image.*

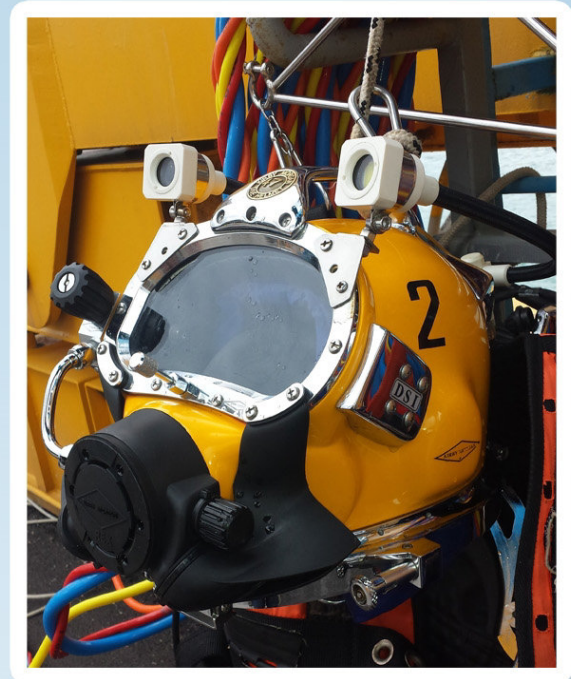
*The material used for the exterior case is PVC or Nylon which guarantee the necessary elasticity for self sealing, while the material for the inner container is made from stainless steel (for use at depths of over 1000 m), aluminum (up to 600m) and plastic or PVC (up to 100m).*

*Another characteristic of the exclusive and innovative SUB Mini-Cam and SUB MiniCam SET is the electrical connector connecting to the cord, positioned at the end of a high pressure tube of about 30 cm in length coated with nylon. In this way, by installing the camera and the spotlight on the adjustable supports, the connections with the cord will be positioned at the rear of the helmet, leaving the upper and surrounding space free and without hindrance of cables. But for the SUB MINiCAM SET, since it is a camera and light set in a single body, the two tubes converge in a PVC T-terminal with a single 4-terminal seacon connector for video and light connections to the cord.*

*Looking at the front of the camera you will immediately notice the small size (the camera is the shortest on the market), the square shape to promote better grip during orientation in the water, the watertight stainless steel ring nut and the ultrathick polycarbonate glass (10 mm) specially lowered compared to the front height to prevent scratches caused by accidental impact.*

*The diameter, height and depth of the camera and the spotlight are the same so as to follow a cubical geometry used specifically in order to ensure a greater and more uniform resistance to stresses and pressures.*

*The overall thickness of the walls is 8 mm summing the 4 mm of the outer container in plastic and the 4 mm of the inner metal. In the two different inner metal containers, we find the high-resolution CCD in the camera whose characteristics are listed below, and a high-brightness LED module (1288 lumens) in the spotlight equipped with current limiting circuit and heat sink aluminum, optimized for proper cooling both in and out of the water.*



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Specifications:

### SUB MiniCam - SUB Minilight - SUB MiniCam Set

Camera and spotlight dimensions:

**Length** = 40mm ( without the tube extension )

**Diameter** = 40mm Front - 38mm Rear

**Weight in air** = 0.3 Kg in water = 0.2 kg

**Average depth of use** = 100 - 600 - 1000 Mt

**Outer container material** = Plastic (PVC or Nylon)

**Inner container material** = Stainless steel - Anodized aluminum - Hard Plastic (nylon - pvc - delrin)

**Transparent glass front** = 10mm Polycarbonate

**Special Feature** = exclusive patent " Self Sealing System" for the use of pressure for greater sealing of the container.

Internal anti-fog system in the presence of strong temperature fluctuations



### SUB MiniCam - SUB MiniCam Set

Electrical and optical characteristics :

**CCD module** = High resolution 1/3 Sony Had CCD EXview III 960H

**Field of view** = 120 ° in air

**Lens** = 2.8 mm

**Sensitivity** = 0.001 Lux

**Resolution** = 700 TvI

**Total Pixels** = 1020 (H) x 596 (V) 610000 pixels (PAL)

**Video output** = CVBS 1.0 Vpp 75 Ohm

**Electronic Shutter** = 1 /50 - 1/100000 sec

**Absorption** = 120 Ma

**Power supply** = 12V - 15V or 24 - 35 VDC



### SUB Minilight - SUB MiniCam SET

General Specifications :

**LED** = 6W 6000 ° Kelvin

**Light intensity** = 1288 lumens

**Power** = 11 -15 VDC or 24 - 35 VDC

**Absorption** = 350 Ma

**Angle** = 120 ° in air

**Operating Temperature** = -30 ° / +85 °

Built-in current limiter

**Low heat dissipation**

**Can also be used out of the water**

