

NOUS Vision System

www.nous.com.gr

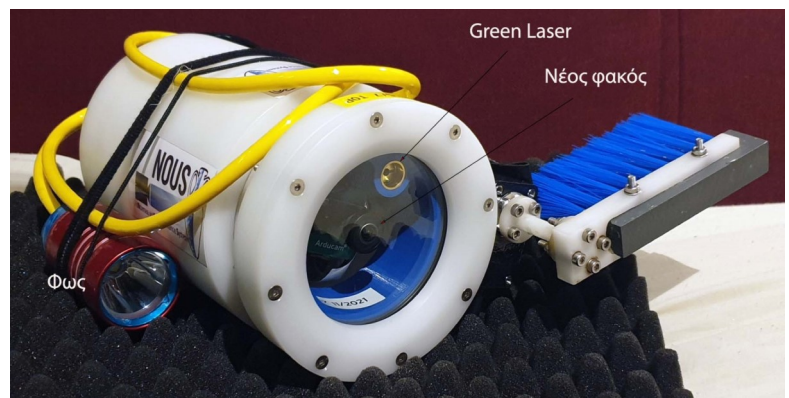
Bringing the power of A.I. to marine and undersea systems

The underwater camera "NOUS Cam-V3", is of Hellenic design and manufacture, which is connected and transmits in real time images in high resolution.

The camera is fully connected and controlled by a computer inside the underwater housing, for taking and sending photos and video (live stream), via Ethernet network locally and on the Internet, as well as for the settings of its configuration and operation.

Compact underwater housing construction with dual o-ring and high resistance crystal. The housing has a mounting ring on the back for vertical capturing and a side stainless steel base with a mounting collar for horizontal capturing.

- Dimensions: diameter 111 mm, length 170 mm
- High quality camera - UHD Resolution: 4056(H) x 3040(V) **12.3MP**
- Wide lens: 180 degrees - Low Distortion
- Power supply : 12-24 V DC
- Max depth: **-300 meters**

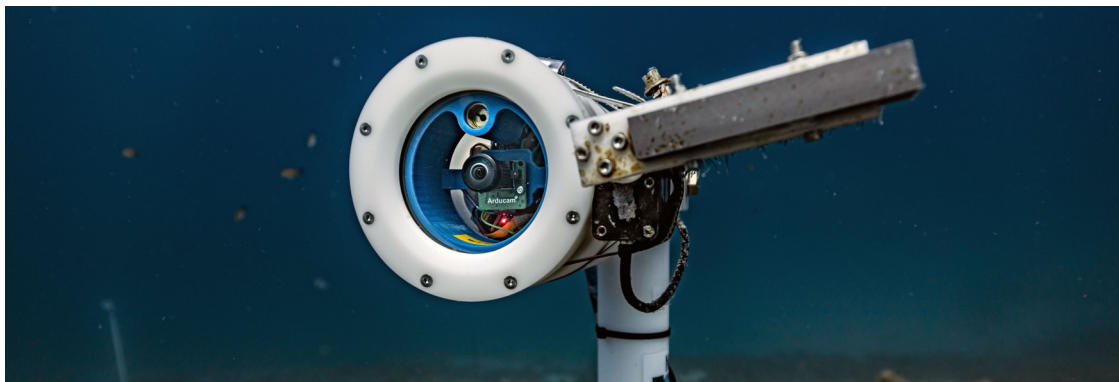


Optional:

Lens wiper

Running a wiper lens washer manipulator to clean the front of the housing in order to remove marine debris, which over time reduces the effectiveness of the optical system.

The cleaning system is fully and autonomously controlled by the camera computer.



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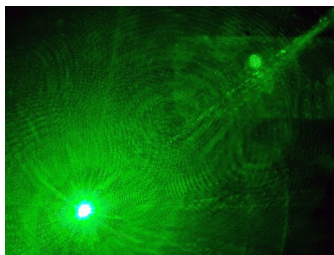
UW Lights

An underwater Led light can be mounted on the exterior body of the housing, which can be activated by on/off command or with a programmed operating time. Possibility to select up to 2 underwater UW led lights, either beam or diffusion. Mounted around the perimeter of the housing or on the base mounting column of the housing.



Green Laser

Green laser beam for pointing, scaling and signal use. It is mounted internally in the housing and is activated by on/off command or with a programmed operating time.



Microphone/Speaker

Inside of the housing are two microphones (stereo) for recording and monitoring the sounds of the sea, as well as a loudspeaker for underwater communication with divers.

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UW Remote Motion

Capability to move the underwater camera via servos for pan and tilt, which is activated on command or with a programmed operating time.

Temperature Sensor

Installation of a temperature sensor to monitor and record the temperature of the water column.

Portable Surface Unit

Strong case where all cables are connected (detachable) with watertight plugs. The cables are: the camera cable, the external power supply cable and the cable for connection to a local PC network or wireless (WiFi). Through this waterproof case it is possible to monitor and operate the underwater camera in a local network and to relay the image and its manipulations on the internet (GSM/Satellite/PtP).



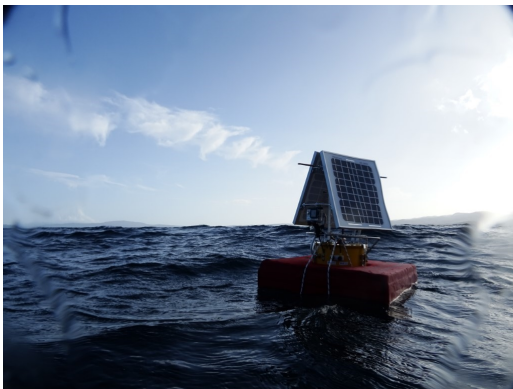
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Buoy Unit

Surface floating buoy which holds the photovoltaic panels, keep the batteries and chargers for powering the system, as well as the antennas (GSM) for the communication and the connection of the system to the internet. It also supports an ultra-wide angle camera for visual monitoring on the sea surface and other instruments (weather station etc.).



Underwater Network Cable

Rugged submarine cable for LAN use, with a maximum length of 100 meters.



UW Mount System

Underwater adjustable mast for camera support. Anodised aluminium assembling structure. Maximum mast height up to 10 metres with a choice of 2,5, 5 and 7,5 meters respectively.

