



## FEATURES AND BENEFITS

- ✓ 2000m & 4000m depth rated anodized Aluminum housing
- ✓ Ethernet port for an easy integration with existing systems
- ✓ High data rate transfer (GigE Vision)

**Compatible with FORSSSEA localization & augmented reality software!**



## PRODUCT DESCRIPTION

- The **SMART CAM HD 2000 & 4000** designed by FORSSSEA ROBOTICS is a low cost fixed focus IP High Definition camera.
- With a wide horizontal angle of view of 90° in water, this camera is ideal to equip ROV/AUV for underwater inspection or stereo embedded vision.
- The focal length is easily adjustable to capture images at very close range.
- The camera comes fully calibrated with software lens distortion correction.
- Information processing facilitated by Ethernet output makes this device perfectly adapted to **COMPUTER VISION** and **ARTIFICIAL INTELLIGENCE** (Machine Learning) applications.
- Multiple cameras can be connected on the same Ethernet network (PTP). LED option on demand.

## APPLICATIONS

- ✓ ROV systems
- ✓ Trencher systems
- ✓ Crawler systems
- ✓ 2D/3D stereo vision
- ✓ Computer vision (ML)
- ✓ Target identification
- ✓ Augmented reality
- ✓ Photogrammetry

## TECHNICAL SPECIFICATIONS

ELECTRICAL	
Voltage	10-32 VDC or PoE
Power consumption	3 W maximum
S/N ratio	< 41 Db
Standard wiring	SUBCONN DBH13M 13 pins CRE BRB12M 12 pins
Data transfer	Ethernet GigE Vision

OPTICAL	
Sensor	Sony 1/1,8" CMOS Color (IMX265)
Absolute sensitivity threshold (γ)	18.07
Resolution	2056 x 1542 px / 3.2 Mpx / 36 FPS
Standard focal distance	4,5 mm
Angle of view	90° (diagonal) ; 78° (horizontal) ; 62° (vertical)

MECHANICAL	
Housing material	Hard Anodized 6061-T6 Aluminium
Window material	Sapphire glass
Weigth	0.6 kg in air ; 0.28 kg in water

ENVIRONNEMENTAL	
Depth rating	2000 m and 4000 m
Storage temperature	-20°C to 60°C
Operating temperature	0°C to 45°C