

# OCEANTOOLS

Innovative Products & Solutions for use in some of the world's harshest environments

## OceanTools OceanSENSE

*Protecting the environment with field-proven offshore leak detection systems*



The OceanTools OceanSENSE "Bright Light" range of subsea leak detection systems are field proven on many offshore jobs with a very impressive 100% detection rate. The OceanSENSE family comprises:

- OceanSENSE-SW Single wavelength detection system
- OceanSENSE-DH Diver held, single wavelength detection system
- OceanSENSE-AUV AUV Deployed single wavelength system

OceanSENSE emits very high intensity light at a wavelength specific to the tracer dye under detection. The agitated fluid emits light at a different wavelength which is then detected by the OceanSENSE's intelligent photo-detector electronics. The light is passed through a photo-multiplier which amplifies the light many thousands of times before the electronics filter and analyse the data.

The photo-detector electronics have a detection capability approximately **50 times** that of the human eye - and that of conventional "black-light" detection systems. The ROV's lights do not have to be turned off when OceanSENSE is in operation thus making for significantly safer ROV operations.

The OceanSENSE unit is designed to work with a wide range of dyes and substances including:

- OceanTools OceanDYE
- Rhodamines including RX9022 and B275
- Fluoresceins
- Pelagic 100 & 100 Pink
- Champion ClearDye

OceanSENSE can detect dyes other than the ones listed above. Please contact OceanTools for an up to date list of all detectable dyes & substances.

### KEY FEATURES

Impressive detection range up to 7m

ROV, Diver-held and AUV versions

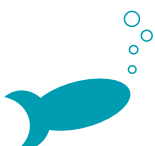
Results visible both on camera and via software

Simple to operate system

Up to 50x as sensitive as black-light detectors

Detects wide range of dyes & substances

No dangerous lasers



See an animation of OceanSENSE online at  
[www.youtube.com/user/OceanToolsLtd](http://www.youtube.com/user/OceanToolsLtd)



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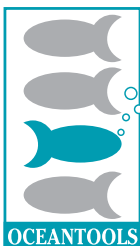
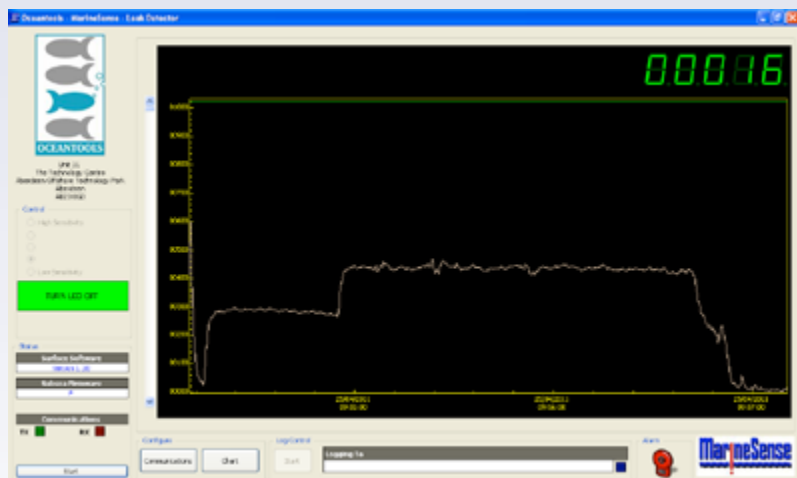
## SPECIFICATIONS

### OceanSENSE-SW

|                            |                |
|----------------------------|----------------|
| Length including connector | 220 mm         |
| Maximum diameter           | 105 mm         |
| Weight in air              | 1.9 kg         |
| Weight in water            | 0.97 Kg        |
| Standard depth rating      | 3000 M         |
| Data communications        | RS232 / RS485  |
| Power requirements         | 250mA @ 24 VDC |
| Voltage range              | 18 - 32 VDC    |

### OceanSENSE-DH

|                            |                            |
|----------------------------|----------------------------|
| Length including connector | 210 mm                     |
| Maximum diameter           | 116 mm                     |
| Weight in air              | 3.5 kg                     |
| Weight in water            | 1.8 Kg                     |
| Standard depth rating      | 200 M                      |
| Display                    | Internal micro VGA display |
| Power requirement          | 24 VDC from battery pack   |



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