



DHI LAB PRODUCTS

BALLASTWISE: BALLAST WATER ANALYZER

The practical method for compliancy testing

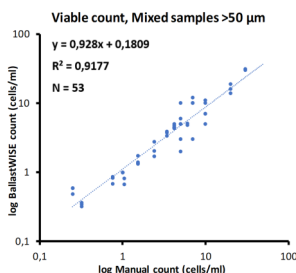
BallastWISE is a portable equipment to analyze small organisms in water by monitoring their movements and fluorescence. BallastWISE is designed for anyone who wants to examine and document live organisms in water samples. The precise quantification of both phytoplankton and zooplankton makes BallastWISE particularly relevant for manufacturers of ballast water management systems, vessel operators, Port State Control Officers and maritime consultants.

COMPLIANCE WITH BALLAST WATER MANAGEMENT REGULATIONS

BallastWISE quantifies live organisms in the required size ranges: 10-50 µm and ≥50 µm. Compliance or non-compliance with ballast water discharge standard are displayed immediately after the analysis.



Samples of treated ballast water are easily analyzed without additions of chemicals. High resolution cameras and image analysis algorithms are used to detect and record motile organisms, and non-motile algae are quantified by measurements of auto fluorescence.



BallastWISE has been tested on a large range of water samples treated by different ballast water management systems at DHI's land-based test facility. Comparative laboratory analyses showed excellent agreement between results obtained by use of BallastWISE and by microscopy counting.

BallastWISE

BENEFITS

- Automatic and fast analyses by portable equipment
- Laboratory skills are not needed
- No additions of chemicals
- Results include the size classes of organisms required by ballast water management regulations
- Compliance or non-compliance evaluations are shown immediately after the analysis.

BallastWISE

Date (ymd)	2018-04-13	
Time	15:08:39	
Source	HMS Test	
Result	compliant	
Size class 10-50µm counts per ml		
Motile	Pigmented	Pigmented (motile)
0	0	0
Size class >50µm counts per liter		
Motile	Pigmented	Pigmented (motile)
0	0	0

compliant
 non-compliant
 gross non-compliant

FEATURES

- Motile and fluorescent organisms can be observed on the laptop during the analysis
- BallastWISE is developed and manufactured by MicroWISE and patent pending.

MicroWISE

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