



VOXOMETER

M | L | XL

THE ONLY MA3® MULTI ASPECT SURVEY SYSTEM

SMART • AGILE • AUTOMATED



Introducing VOXOMETER®: THE ONLY MA3® MULTI ASPECT SURVEY SYSTEM

Because it measures voxel observations, Voxometer® represents an extremely important industry innovation that offers operators a new, highly effective and efficient way of surveying. In a market category of its own, Voxometer® is a unique and powerful tool in your survey arsenal.

COMPATIBLE WITH ALL SURVEY PLATFORMS



AUV



ROV



USV



Small Vessel



Large Vessel

SURVEYOR BENEFITS TO TAKE YOUR MISSION TO THE NEXT LEVEL:



EASE OF OPERATION

- Less skills & experience required to operate the system.
- Completely integrated system that is intuitive and user-friendly



REDUCED TIME & EFFORT

- Survey at higher speed (primarily governed by the environment/platform)
- Less time spent on set up and mobilization
- Less time spent on data processing



MAXIMISED PRODUCTIVITY

- Collect different data types at once, in a single pass
- Less overall time and money spent on your survey
- Ongoing addition of system features and benefits
- Reduced payback period on your system investment



UNPRECEDENTED DATA QUALITY

- Voxometer® technology harnesses a powerful range of patented functions to give you survey data of unsurpassed quality

COMPACT VOX-IM



VOXOMETER

Projector
Receiver



 **VOXOMETER**
M L XL

HARNESS A POWERFUL RANGE OF PATENTED FUNCTIONS AND FEATURES

PIONEERING A NEW ERA IN TRUE MULTIMISSION CAPABILITY:

NEQD™

Near
End-Quality
Data

*Accurate data
as you walk off
the vessel*

MA3®

Multi Aspect
observation
of voxels

*Multi-Angular
Multi-Spectral
Multi-Temporal*

BSI™

Bottom
Softness
Indicator

*Now available
on every
survey*

UDSD®

User Defined
Sampling
Density

*Sample the bottom
exactly where needed,
at the required density*

MEGARES®

1MHz Resolution
- The highest
available

*Picks up detail that
lesser frequencies
cannot*

SMARTVOX®

Intuitive
Vox-App
Mode

*Auto-calculates
optimal survey
parameters*

TRUEVOX®

Multi-Frequency
Vox-App
Feature

*Collect water column
& backscatter data
simultaneously*

UNS®

Uninterrupted
Navigational
Signal

*Accurate positioning,
when GPS signal is
temporarily lost*

PVL®

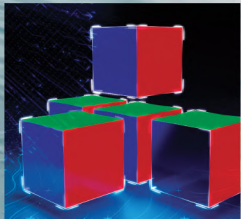
Precision
Velocity
Log

*Higher positioning
precision for
ROV/AUV*

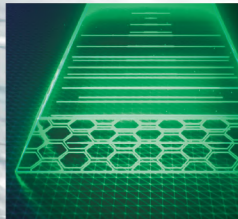
INCREASED MISSION EFFICIENCY WITH DATA QUALITY YOU CAN TRUST

Voxel-based observations (A) at user-defined densities (B) from multiple angles in a single pass (C), to combine and plot data in an additive way (D), giving you real-time visualisation of the survey area(E).

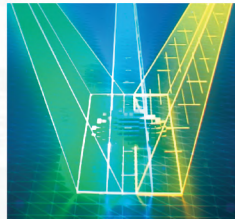
A



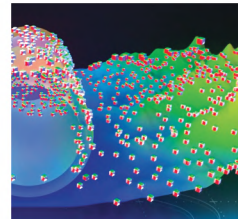
B



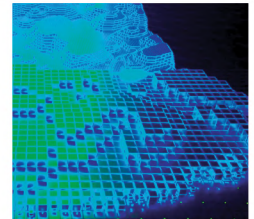
C



D



E



VOX-APP®

A fully integrated workflow that enables even the most inexperienced operator to perform a high-quality survey.

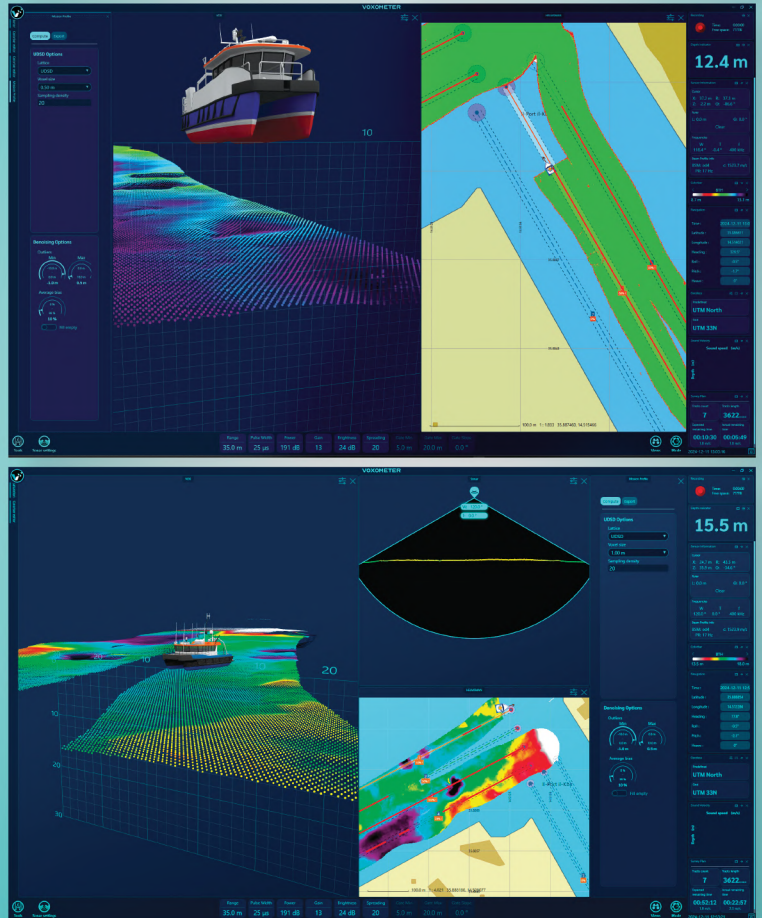
Vox-App® offers operators easy and intuitive selection of parameters, while automating real-time visualisation of the point cloud...

- All sensors and software required to perform a survey are native to the design and included with your system
- Voxometer automatically discovers and connects hardware, then guides the user through set up, saving time and reducing the risk of error
- System automation greatly reduces the measurements, calculations and adjustments that operators are required to make. An intelligent system that warns the operator if data is inconsistent
- Select your UDSD®, Voxel size and VoxMode and you are ready to survey. Sample density is specified by the user at the start of your survey
- Provides intuitive data views from any vantage point, without delay
- Collect high precision data like never before
- Real time view of data as it is being acquired - see data in 2D map view or 3D point cloud
- NEQD™ as you step off the vessel. Spend less time on post processing

EASE OF SET-UP



REAL-TIME SURVEY ADVANTAGE



SCALABLE INNOVATION: VOXOMETER® IS NOW AVAILABLE IN THREE MODELS



VOXOMETER



TECHNICAL

<i>Beamwidth</i>	0.4° x 0.4° at 1MHz 0.9° x 0.9° at 450kHz 2° x 2° at 200kHz 4° x 4° at 100kHz	0.2° x 0.4° at 1MHz 0.45° x 0.9° at 450kHz 1° x 2° at 200kHz 2° x 4° at 100kHz	0.2° x 0.2° at 1MHz 0.45° x 0.45° at 450kHz 1° x 1° at 200kHz 2° x 2° at 100kHz
<i>Sounding Depth</i>	Up to 500m	Up to 700m	Up to 1000m
<i>Immersion Depth</i>	100m Standard / 6000m Option		
<i>Selectable Freq</i>	100kHz to 800kHz - 1MHz Option		
<i>Selectable Swath</i>	10° to 160° - User selectable in real time		

ELECTRICAL

<i>Mains</i>	90-260V AC, 45-65Hz, or 10-55V DC		
<i>Power Consumption</i>	40W	60W	150W
<i>Uplink/Downlink</i>	10/100/1000Base-T Ethernet		
<i>Sync In, Sync Out</i>	TTL		
<i>Deck Cable Length</i>	15m Standard / 25m and 50m Options		

PHYSICAL

<i>Receiver Dimensions (LWD) & Mass (kg)</i>	264 x 110.1 x 63mm ± 4kg	456 x 102.6 x 63mm ± 7kg	
<i>Projector Dimensions (LWD) & Mass (kg)</i>	288 x 126 x 164mm ± 12kg		480 x 126 x 164mm ± 17kg
<i>VOX-IM Interface Module Dimensions (LWD) & Mass (kg)</i>	212 x 160 x 70.5mm 2.9kg		

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BROUGHT TO YOU BY



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