# NORBIT - iSTX360 -TURNKEY SOLUTION FOR DREDGING MONITORING 

## stationary surveys with 360 deg coverage

## Compact and high-resolution curved array FM

 bathymetric mapping system for stationary 360 Survey.This all-in-one tightly integrated broadband multibeam turnkey solution offers high resolution bathymetry over a wide swath for all dredging applications. The high-end sonar with Applanix WaveMaster II (globally leading GNSS/INS system) embedded into the unit ensures fast and reliable mobilization and highest quality sounding for surveys in all conditions. The system is tightly integrated to a titanium rotating system ensuring a full 360 deg stationary high-end survey capability.

The WBMS-series are based on a flexible sonar platform that utilizes the latest in analogue and digital signal processing. With broad R\&D expertise NORBIT has developed, from the ground-up, exciting new technology that allows existing and new applications to benefit from the advantages offered by a compact wideband curved-array multibeam sonar.

## Features

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\checkmark ~ S t a t e - O f - T h e - A r t ~ C u r v e d ~
    Array Multibeam Sonar Tightly
    Integrated with High-end GNSS-
    aided Inertial Navigation System
    (Applanix WaveMaster II)
\checkmark 80kHz Bandwidth
\checkmark Backscatter outputs (Intensity,
        Sidescan, Snippets Sidescan,
        Snippets, Water Column)
\checkmark Multidetect
\checkmark ~ S i m p l e ~ E t h e r n e t ~ I n t e r f a c e
\checkmark Integrated NTRIP Client
\checkmark ~ I n t e g r a t e d ~ S o u n d ~ V e l o c i t y ~ P r o b e
\checkmark FM & CW Processing
\checkmark ~ T i g h t l y ~ C o u p l e d ~ t o ~ N O R B I T ~
    Rotator
\checkmark Exceeds IHO Special Order,
    CHS Exclusive Order&
    USACE New Work
```


## Applications

$\checkmark$ Pipe Laying Survey
$\checkmark$ Cable Laying Survey
$\checkmark$ Construction Survey
$\checkmark$ Rock Dumping Survey
$\checkmark$ Dredge Monitoring/Survey
$\checkmark$ Breakwater Construction
$\checkmark$ ACCROPODE ${ }^{\text {m }}$ Placement

## Options

$\checkmark$ NORBIT Consolidated Dredging Monitoring Software (NORDredge)
$\checkmark$ Turnkey Survey Solutions
$\checkmark$ Pole Mount
$\checkmark$ Top-end INS (Roll, Pitch \& Heading 0.01 deg)
$\checkmark$ Acquisition, Navigation and Post Processing Software
$\checkmark$ Senior Hydrographer for Support and Training
$\checkmark$ Sound Velocity Profiler
$\checkmark$ Pre- and Pos- survey Support for Final Product Delivery
$\checkmark$ Can be Delivered with Software Packages e.g. HYPACK, Qinsy, EIVA, CARIS, BeamworX and Others

## NORBIT iSTX360 Solution

## High Resolution 4D Bathymetry



TECHNICAL SPECIFICATION


