The NORBIT iLiDAR is the most compact terrestrial mapping sensor fully integrated with a high resolution bathymetric multibeam system. With 300k data points per second in 30x360deg coverage, it is an ideal tool for mapping above water surface terrain for a complete picture from a single pass. A single robust cable connects the IP67 iLiDAR sensor head to the topside Sonar Interface Unit (SIU) – with fewer connections, rapid integration and compact size, surveys are easily carried out from any sized platform by personnel with minimal expertise.

NORBIT's iLiDAR laser sensor is an all-new multi-sensing concept that combines multiple tightly integrated sensors into one hardware platform with a single LAN connection to survey laptop. Supported sensors include any combination of bathymetric multibeam echosounder, forward looking sonar, forward looking bottom detection and iLiDAR. Allowing you to...

**NORBiT iLiDAR LASER SENSOR**

Turnkey Integrated Mobile LiDAR System

For Complete Above Water 3D Point Cloud

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**Features**

- Built For Marine Environment
- Hardware Time Synchronization
- Fully Integrated With iWBMS
- Robust Hardware Time Synchronization
- Single Cable Integration
- 360 Deg Field View
- Less Than 3kg

**Applications**

- Harbor Surveys
- River Surveys
- Height Clearance (Transmission Lines, Bridges etc.)
- Beach Nourishment Surveys
- Shoreline Charting Surveys
- Aquaculture
- Dredging
- Rock Dumping
- 360 Mapping

**Options**

- Senior Hydrographer for Support and Training
- Laptop
- Turnkey Survey Solutions
- Pole Mount And Travel Option
- Top-end INS (Roll, Pitch & Heading 0.01deg)
- Acquisition, Navigation & Post Processing Software
- Can be Delivered with all major software packages e.g. HYPACK, QINSy, EIVA, CARIS, etc.

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NORBIT iLiDAR laser
Turnkey Mobile LiDAR System

TECHNICAL SPECIFICATION

INFRARED LASER MODULE
1-20Hz-TIME OF FLIGHT MEASUREMENTS WITH DUAL RETURNS

FRAME RATE
5-20Hz (10Hz DEFAULT)

WAVE LENGTH PEAK
905nm (TYPICALLY) CLASS 1 EYE SAFE

OUTPUT
UP TO 300,000 POINTS PER SEC

ANGULAR RESOLUTION
2° BETWEEN EVERY OF THE 16 LASER/HORIZONTAL

ANGULAR RESOLUTION
0.1°-0.4° VERTICAL

FIELD OF VIEW
30° VER., 360° HOR

RANGE
100m

DATA I/O
NORBIT PROPIETARY SYNCHRONIZED TIME STAMPED

POWER
8W (TYPICAL)

VOLTAGE
10-28VDC OR 110/220VAC (POWERED DIRECTLY BY THE SIU)

ACCURACY
2cm

DIMENSIONS (DIA. x H x L)
103mm x 130mm x 150mm

WEIGHT
2.4kg

SERVO DRIVEN GEAR SYSTEM IN BOTH AXES WITH MANUAL CLUTCH OVERRIDE SYSTEM 3-AXIS
FLUXGATE MAGNETOMETER + 3-AXIS ACCELEROMETER