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 echo-sounder, forward looking sonar, forward looking bottom detection and iLiDAR. Allowing you to...

Explore more with Norbit
NORBiT iLiDAR laser
Turnkey Mobile LiDAR System

**TECHNICAL SPECIFICATION**

- **Infrared Laser Module:**
  - 1-20Hz - Time of Flight measurements with dual returns
  - 5-20Hz (10Hz default)
  - Wavelength 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 proprietary 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

**Part #24012**