

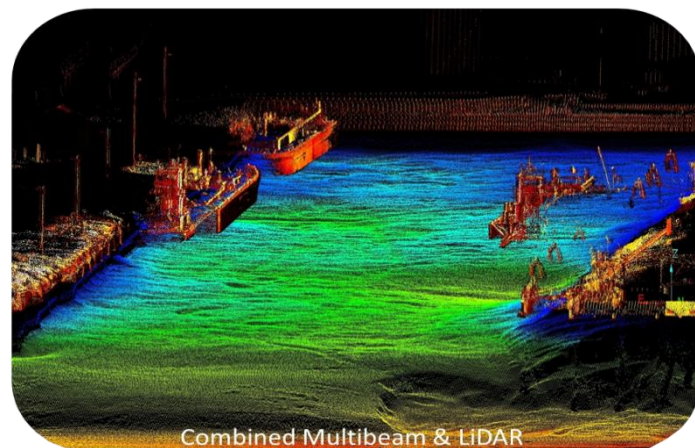
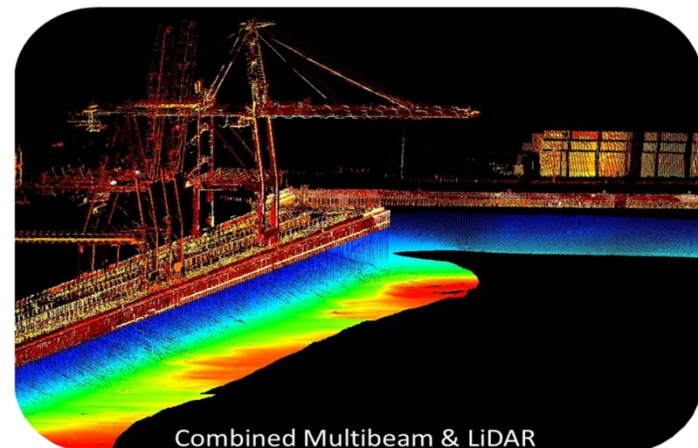
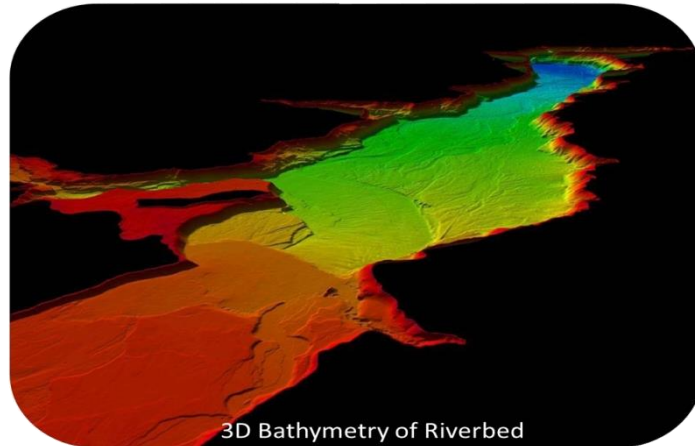
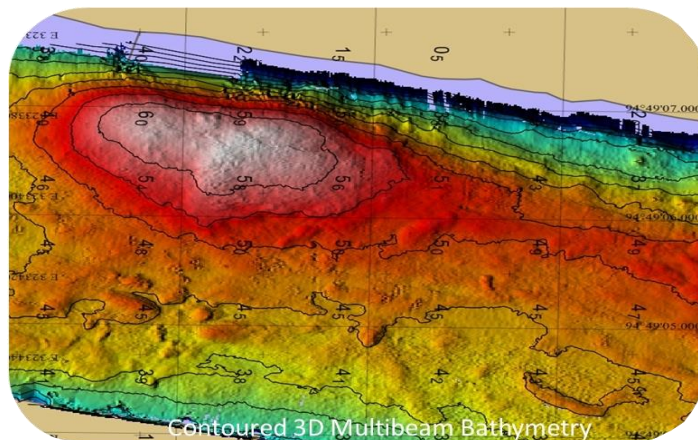
Rapid Deployment Survey Vessel - RDSV

The iLinks vessel is permanently fitted with the very latest Hydrographic and Topographic survey equipment. All of the onboard survey systems are maintained in a fully calibrated and ready-to-go state, the vessel is never demobilised. Designed to be easily deployed from a conventional road trailer, or by crane from a barge or mother-ship, the iLinks vessel is capable of delivering accurate and clean 3D point cloud data sets in real-time, with little or no post processing required.



Markets and Applications

The iLinks vessel has been designed for all survey operations in Inshore and Inland Waterways and is particularly well suited to projects which require combined Hydrographic and Topographic surveys. The onboard systems have been designed and built for the rapid turnaround of accurate 3D data and as such, the vessel is ideal for Dredging and Engineering & Construction applications which benefit from near real time results. The following are examples of some of the applications the iLinks vessel is suited to;



RDSV Specifications

GNSS POSITIONING AND HEADING SYSTEM	
Model	Novatel Dual OEM V6
Compatibility	GPS, GLONASS, SBAS, L-Band
No. of Channels	240
Measurement Rate	50 Hz
Signal Tracking	L1, L2, L2C and L5
Single Point Accuracy	1.2 m (L1), 1.2 m (L1/L2)
SBAS Accuracy	0.6 m
DGPS Accuracy	0.4 m
RTK Accuracy	1 cm + 1 ppm
Communications	RS 422, RS 232, USB, LVTTL, CAN
Environmental	-40°C to +85°C



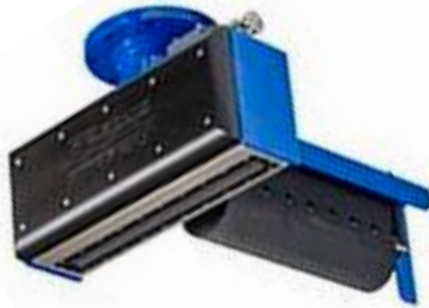
MOTION REFERENCE SYSTEM	
Model	Novatel IMU-CPT
Position Accuracy	0.02m
Velocity Accuracy	0.05 km/h
Heading Accuracy	0.05° (0.02° with external antenna)
Pitch Accuracy	0.015°
Roll Accuracy	0.015°
Acceleration Accuracy	0.01 m/s ²
Angular Rate	0.01 deg/s
Update Rate	100 Hz
Communications	CAN, RS 232, Ethernet, Digital I/O
Environmental	-10°C to +50°C



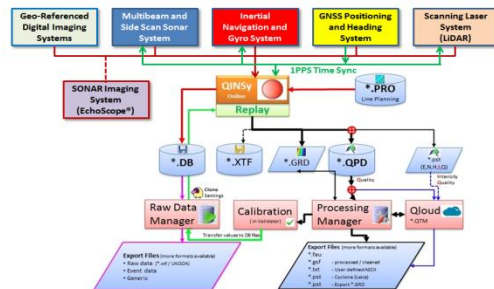
MOBILE LIDAR SYSTEM	
Model	iLinks IntelLAS™
Reflectorless Range	100 m
Laser Accuracy	+/- 1.0 cm
Field of View	H42° x V360°
Range Resolution	1 cm
Angular Resolution	0.01°
Rotation Speed	1200 RPM
Points Per Second	700,000 (User Selectable)
Protection class	IP66 (water & dust resistant)
Communications	RS232, Ethernet
Environmental	-10°C to +60°C



MULTIBEAM SONAR SYSTEM	
Model	R2sonic 2024 - 3,000 m depth rated
Frequency	200 kHz - 400 kHz, 700 kHz
Bandwidth	60 kHz (all frequency selections)
Beamwidth	0.3° x 0.6° at 700kHz (optional)
System Range	500 m - (range resolution 1.25 cm)
No of Beams	256
Swath Sector	10°C to +160° - (all frequencies)
Ping Rate	60 Hz - (pules length 15µs-500µs)
Options	TruePix™, Snippets, Water Column
Communications	RS 232, Ethernet
Environmental	-10°C to +50°C

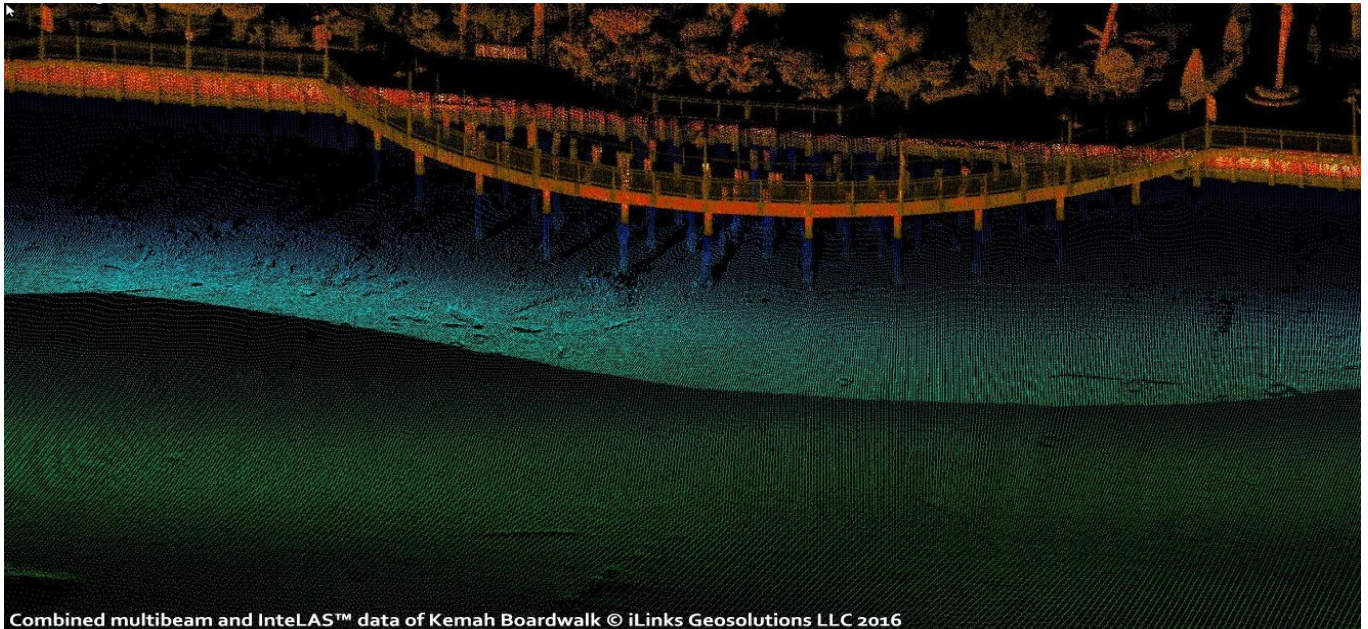


DATA ACQUISITION SOFTWARE	
Software Systems	QINSy, Qloud, Fledermaus
Interfacing	RS 232, Ethernet, USB
Signal Timing	Precise synchronisation using 1PPS
Visualisation	Real-Time 3D data visualisation
Quality Control	Real-Time QC - User Controlled
Data Storage	Raw, DTM, User Parameters
Data Cleaning	Automatic & Manual
Data Export	Industry Standard & Bespoke Formats
Data Visualisation	Full 3D data visualisation
Data Processing	Full processing suit offline
Compatibility	All common survey systems



RDSV Benefits

- Permanently fitted and fully calibrated
- Road trailer or crane mobilisation
- Fully Integrated GNSS, INS, GYRO
- Combined Multibeam and LiDAR real-time data acquisition
- Sidescan, SBP and Magnetometer
- Full integrated 19" Rack mounted 17 PC's
- HYPACK, HYSWEEP and QINSy
- Solid state uninterruptible power supplies



Combined multibeam and IntelLAS™ data of Kemah Boardwalk © iLinks Geosolutions LLC 2016

For more specific information or to arrange a system demonstration, please call +1 281 665 3954 or e-mail us at info@ilinks.us

