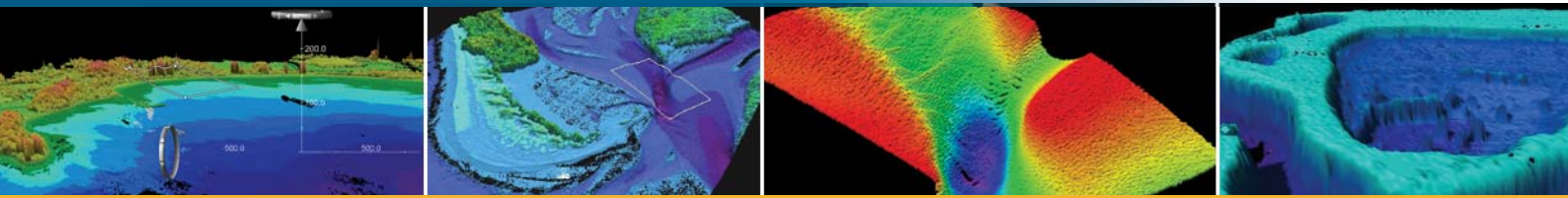


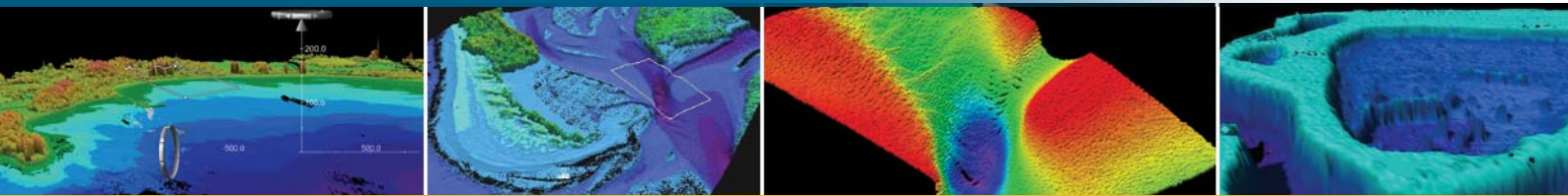
Bathymetric LiDAR Specifications



www.aamgroup.com | info@aamgroup.com

Function	Capability	Comments
Bathymetric soundings per second	Nominal 4000 Full waveform range capture	Hydrographic and topographic soundings are simultaneous
Topographic soundings per second	Nominal 64 000 Up to 3 range captures/sounding	Hydrographic and topographic soundings are simultaneous
Digital camera	1600 x 1200 pixel, one image per second	Optional: 16 MPixel camera
Altitude	Nominal 250 to 500m	Optimized to survey requirements
Swath width	Nominal 100 to 330 meters	Optimized to survey requirements
Flight deviation compensation	Roll ± 5 degrees Pitch ± 7 degrees Yaw ± 20 degrees Speed ± 10 % Altitude ± 10 % Side slip ± 5 %	Compensations are created by two axes servo controlled scanner mirror. References are based on the position navigation system
Position orientation system	Applanix 510	
Scanner pattern	Even distribution over survey area (except at swath limits)	Generated by 2 axes servo controlled scanner mirror
Sounding density Hydrographic data	Typical 1.7 x 1.7 to 3.5 x 3.5m Optionally, others can be supplied	Optimized to survey requirements
Sounding density topographic data	Typical 4 points per square meter to 1 point per square meter	Hydrographic and topographic data are join seamless
Hydrographic accuracy	IHO order 1b or better, Nominal Horizontally x/y = ± 2.5 m Vertically z = ± 0.25 m	Dependent on survey parameters (optimised to survey requirements)

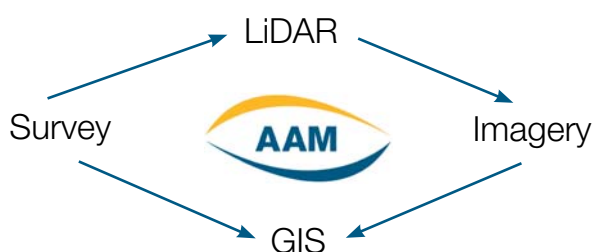
Bathymetric LiDAR Specifications



www.aamgroup.com | info@aamgroup.com

Sea floor objects det.	IHO Order 1b or better	Dependent on survey parameters (optimised to survey requirements)
Depth range	Nominal 2.5 to 3 x secchi depth North sea 35-40m France 25-30m Caribbean islands 50m	Dependent on water turbidity and sea bed reflectance. Theoretical limit 70m
Minimum depth	0.3m	Hydrographic and topographic data are join seamless
Topographic accuracy	Horizontally X/Y = ± 0.5m Vertically Z = ± 0.15m	
Data storage	> 4 hours	Rugged portable hard disks
Man-machine interface	Real time presentation of Depths, Altitudes, Covered areas.	System settings and mission planning can be optimized during flight

Flight Case	Altitude [m]	Velocity [m/s]	Average data density Hydro	4 points within distance	Topo data density (Pt/m ²)	Swath width [m]/effective swath width [m]
A	250	76	1.7 x 1.7m	2.0m	5/m ²	110/80
D	401	80	2.4 x 2.4m	3.6m	1.5/m ²	230/200
G	501	80	3.2 x 3.2m	4.0m	1.0/m ²	330/300



AAM Proudly working with

