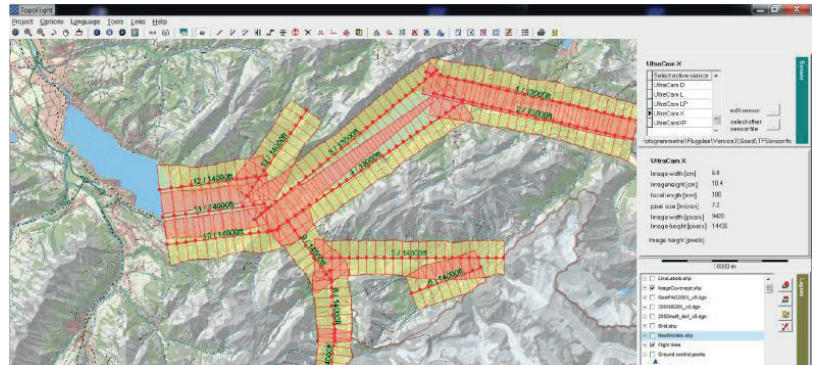


# Manage your aerial survey missions

## TopoFlight Mission Planner

is a 3D flight planning software which allows the fast and interactive design of flight plans. The inclusion of digital elevation models leads to the best and most accurate results and minimizes the amount of images and thereby the costs of any flight mission.



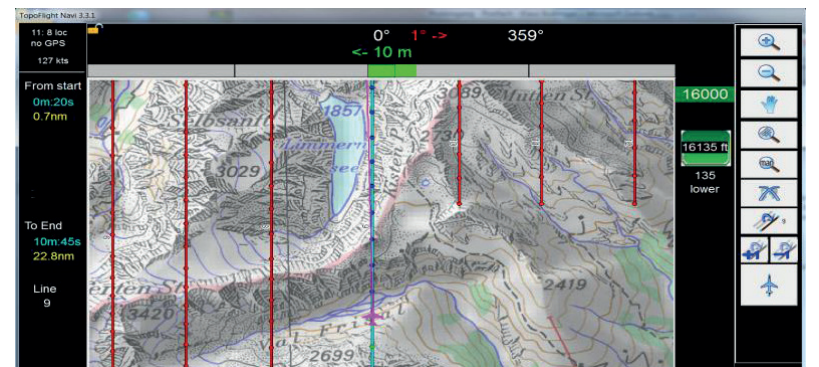
## TopoFlight CamCulator

is a free tool to efficiently compare different cameras against each other. In today's market, there are many sensors available. Our software shows the characteristics of each sensor for a project with selectable parameters (like project extent and GSD).

Select sensor	UltraCamP	UltraCamP	DMC	A0450	N750 Dte One	DMC+ UltraCam S4 / S5	DMC+ Light Leica RC30 / 303-DMS-1
<b>Sensor geometry</b>							
function aperture	7.2 micron	6.0 micron	12.5 micron	6.5 micron	9.0 micron	6.8 micron	6.8 micron
field length	2.9 in	4.7 in	2.5 in	4.1 in	3.1 in	1.4 in	1.1 in
depth along track	9420 pix	11310 pix	7500 pix	8000 pix	8500 pix	3744 pix	6700 pix
pixel cross track	14400 pix	17200 pix	12600 pix	12000 pix	10985 pix	12000 pix	8900 pix
sensor size along	2.7 in	2.7 in	3.6 in	2.7 in	2.4 in	0.9 in	1.8 in
sensor size across	4.1 in	4.1 in	6.5 in	3.1 in	6.9 in	3.5 in	1.4 in
project settings							
GSD	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R
coverage forward / side	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%
engine ground speed	120 kts	130 kts	130 kts	130 kts	130 kts	130 kts	130 kts
project length / width	20 mi / 10 mi	20 mi / 10 mi	20 mi / 10 mi	20 mi / 10 mi	20 mi / 10 mi	20 mi / 10 mi	20 mi / 10 mi
project height	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft	20 ft
<b>Results</b>							
image scale	1 : 42033	1 : 50900	1 : 12540	1 : 4682	1 : 33067	1 : 47625	1 : 21771
height above ground	13800 ft	16600 ft	13000 ft	9615 ft	11667 ft	11765 ft	11222 ft
footprint along track	9411 ft	11300 ft	7675 ft	8000 ft	8891 ft	3750 ft	6661 ft
footprint cross track	14431 ft	17317 ft	13825 ft	12000 ft	10979 ft	12000 ft	8909 ft
airbase	3767 ft	4620 ft	3070 ft	2070 ft	3539 ft	1550 ft	2636 ft
turn spacing	8608 ft	10390 ft	8295 ft	7200 ft	11627 ft	7800 ft	5108 ft
base / height ratio	0.3	0.3	0.3	0.3	0.3	0.3	0.3
min operating angle along track +/-	+/- 7.2°	+/- 7.2°	+/- 8.7°	+/- 8.7°	+/- 8.6°	+/- 8.6°	+/- 8.6°
max operating angle cross track +/-	+/- 17.3°	+/- 22.5°	+/- 20.5°	+/- 20.5°	+/- 18.3°	+/- 17.2°	+/- 18.2°
max operating angle diagonal +/-	+/- 18.8°	+/- 23.9°	+/- 21.8°	+/- 21.8°	+/- 20.0°	+/- 18.7°	+/- 18.3°
building level max	6.8 R	8.8 R	7.5 R	10.0 R	7.3 R	6.8 R	5.8 R
image cycle	17.2 sec	20.6 sec	14.0 sec	14.0 sec	16.2 sec	6.8 sec	12.2 sec
rate of lines / images per line / in / 7 / 29 / 205	6 / 24 / 144	7 / 35 / 245	8 / - / -	6 / - / -	8 / 11 / 248	17 / 71 / 1207 / 11 / 40 / 440	6 / 17 / 102

## TopoFlight Navigator

is used to navigate the airplane. A predefined flight plan is used as a base for the program. The camera is triggered at the predefined positions. Interfaces to cameras can be delivered.



## TopoFlight CoreBox

is our flexible hardware solution for interfacing and controlling your airborne sensors from TopoFlight Navigator FMS software. CoreBox is a modular 19" rack design that comes in two sizes:

- The 2U version offers all necessary interfaces for controlling your GPS/IMU, airborne camera and LiDAR scanner from an external FMS computer.
- The 4U version features a built-in FMS computer, a built-in battery which can provide backup power to your GPS/IMU, and can even accommodate e.g.a



# TopoFlight CoreBox 2U – the core for your sensors



TopoFlight Navigator



Pilot display



Small and medium format cameras



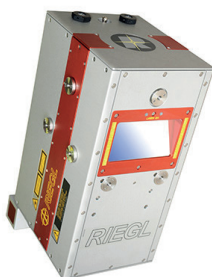
UltraCam cameras



DMC cameras



NOVATEL, APPLANIX  
and other GNSS/IMU systems



RIEGL LiDAR scanners



RIEGL Datarecorder



SOMAG gyro mount



# TopoFlight CoreBox 4U – the core for your sensors



Operator display



Pilot display



Small and medium format cameras



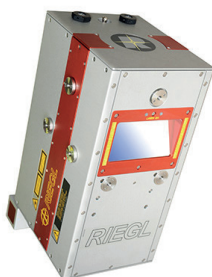
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