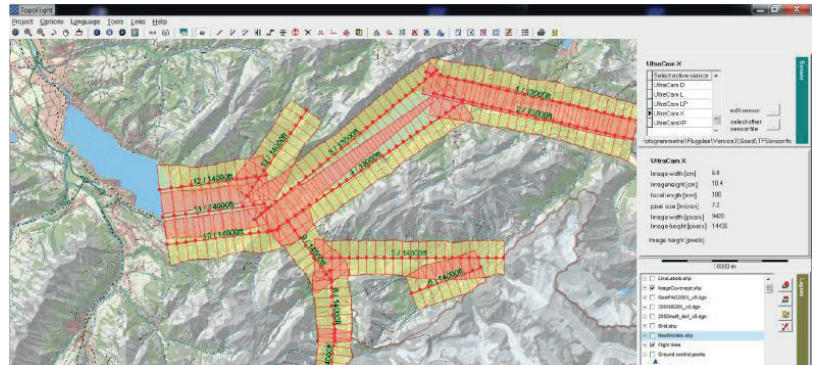


# Manage your aerial survey missions

## 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.



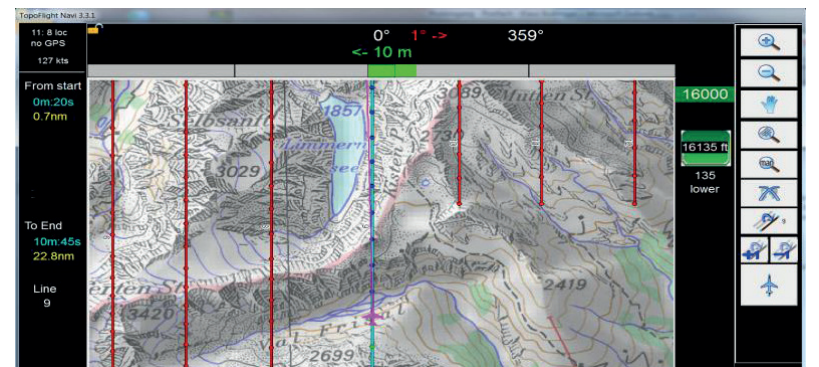
## TopoFlight CamCulator

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	UltraCamSP	DMC	A0640	N750 One	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	DMC+ UltraLight	
sensor geometry	6.0 micron	6.0 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	6.5 micron	
pixel pitch	2.2 micron	2.2 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	2.5 micron	
pixel size	4.7 µm	4.7 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	5.6 µm	
depth along track	9420 px	11310 px	7500 px	7500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	8500 px	
depth cross track	14400 px	17200 px	12000 px	12000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	13000 px	
sensor size along	2.7 m	2.7 m	3.6 m	3.6 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	4.1 m	
sensor size across	4.1 m	4.1 m	6.5 m	6.5 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	6.9 m	
project settings	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	1.0 R	
overlap forward / side	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	60% / 40%	
engine groundspeed	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	120 kts	
project length / width	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	20 m / 10 m	
project height	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	
Results	1:42033	1:50900	1:12540	1:14820	1:13367	1:14824	1:14725	1:14725	1:14725	1:14725	1:14725	1:14725	1:14725	1:14725	1:14725	1:14725	1:14725	1:14725	1:14725	1:14725	
height above ground	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	13800 ft	
footprint along track	9412 ft	11300 ft	7675 ft	7675 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	8661 ft	
footprint cross track	14433 ft	17317 ft	12025 ft	12025 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	13000 ft	
airbase	3767 ft	4620 ft	3070 ft	3070 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	3539 ft	
run spacing	8608 ft	10390 ft	8025 ft	7700 ft	11627 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	7800 ft	
base / height ratio	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
max operating angle along track +/-	+/- 7.3°	+/- 7.3°	+/- 8.7°	+/- 8.7°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	+/- 8.6°	
max operating angle cross track +/-	+/- 17.3°	+/- 17.3°	+/- 23.3°	+/- 23.3°	+/- 20.5°	+/- 18.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	+/- 17.2°	
max operating angle diagonal +/-	+/- 18.8°	+/- 18.8°	+/- 25.3°	+/- 25.3°	+/- 20.0°	+/- 18.7°	+/- 16.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	+/- 15.3°	
building level max	6.8 R	6.8 R	8.8 R	8.8 R	7.5 R	10.0 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	7.5 R	
image cycle	17.2 sec	20.6 sec	14.0 sec	14.0 sec	16.2 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	6.8 sec	
nr of lines / images per line / nr of lines / images per line	7 / 29 / 205	6 / 24 / 144	7 / 35 / 245	8 / - / -	6 / - / -	8 / 11 / 248	17 / 71 / 1207	11 / 40 / 440	6 / 17 / 102	12 / - / -											

## 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



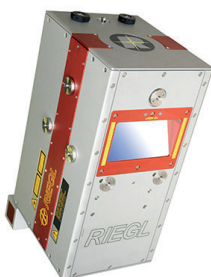
Small and medium format cameras



UltraCam cameras



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



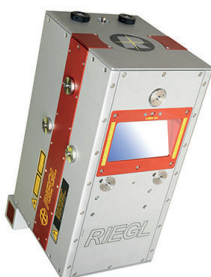
Small and medium format cameras



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NOVATEL, APPLANIX  
and other GNSS/IMU systems



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SOMAG gyro mount