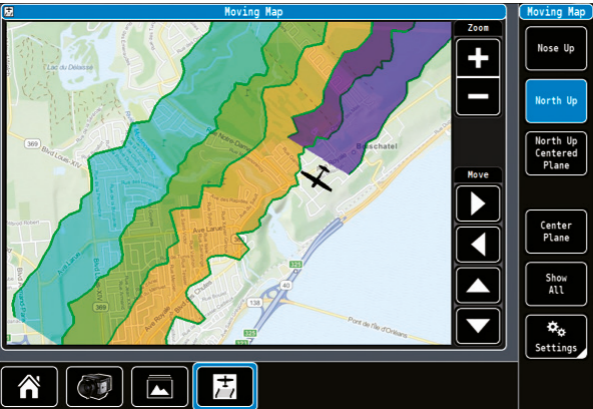


IGI LMTRACK & FRAMETRACK

- Real-time, geo-referenced previews of LiDAR, camera or thermal data for online quality control during the flight
- Adjustable visualization of sensor data for terrain projection with preinstalled DEM
- Multitouch display with interactive view control
- Import of background maps and KML-export of screenshots



IGI LITEMAPPER
SPECIFICATION
Airborne Lidar System



SMART SOLUTIONS

Please contact us or your local partner for your custom sensor configuration and installation.



Langenauer Str. 46
57223 Kreuztal
Germany

Phone +49 (0) 2732 5525-0
Email info@igi-systems.com
Web www.igi-systems.com

• International partners

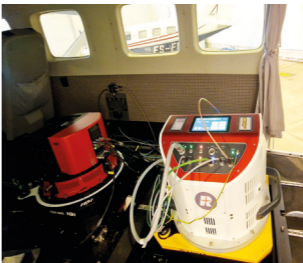


PLATFORMS

Designed as a rugged but also compact and lightweight system, the IGI LiteMapper can be used in a variety of aircraft, from large airplanes and helicopters to ultra-light airplanes and gyroplanes or even UAS's. At IGI, combining LiDAR's with a wide range of sensors—such as large-format aerial cameras, thermal imaging, and hyperspectral cameras — is part of our core expertise.



HELICOPTER



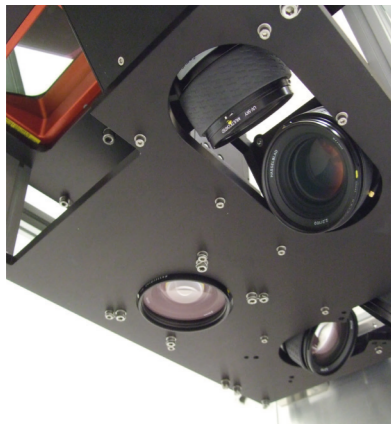
AIRPLANE



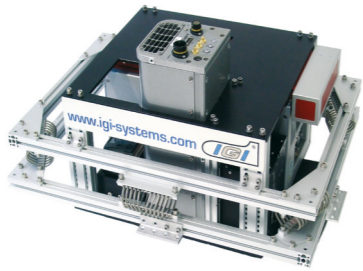
GYROCOPTER



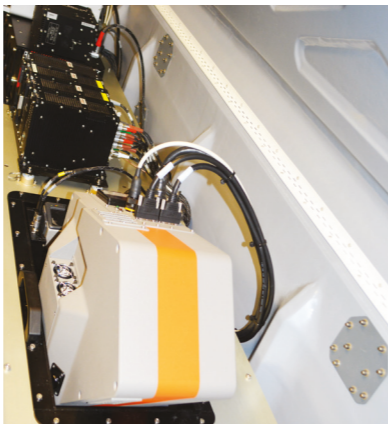
RPAS / UAV



LITEMAPPER
together with Penta-DigiCAM



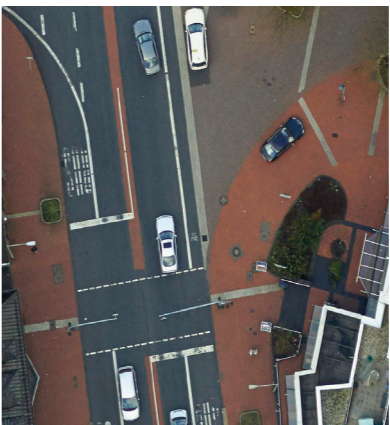
LITEMAPPER
together with DigiCAM
and hyperspectral sensor



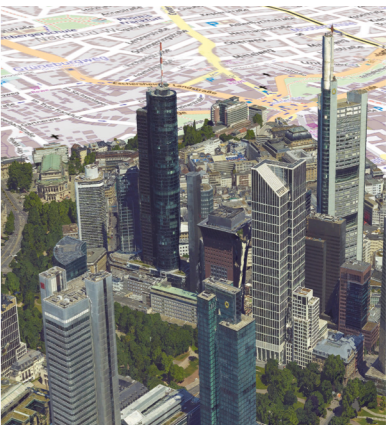
LITEMAPPER
together with DigiCAM, DigiTHERM
and AsiaFENIX hyperspectral sensor



LITEMAPPER
together with 1x DigiCAM Nadir &
2x DigiCAM Oblique



TRUE ORTHOFOTO
Automatic generation of
true orthos



3D CITY MODEL
Automatic generation of
3D city models

SELECTION OF INTEGRATED RIEGL LIDAR SENSORS - DIFFERENT SETUPS AVAILABLE ON REQUEST					
Brand	LM-UX160-23	LM-UX180-24	LM-UX240-24	LM-UX580-2S	LM-UX860-G
Mission Planning Software	IGIplan				
Flight Guidance System	CCNS-5 with Terrain Following & Corridor Mapping, Pilot and Operator Display				
Precise Positioning System	AEROcontrol Compact, export free MEMS & FOGS IMUs available up to 600 Hz				
Sensor Management Unit	IGIvisu with LMtrack - Georeferenced preview of online date, 13" touch-screen				
TECHNICAL SENSOR FEATURES					
Topographic Laser	✓	✓	✓	✓	Topo-Bathy
Scanner Pattern	Parallel Lines -10° 0° +10°	Parallel Lines	Parallel Lines	Parallel Lines	Nearly Elliptic
Wavelength	NIR	NIR	NIR	NIR	532nm, green
Pulse Repetition Rate	2400 kHz	2400 kHz	2400 kHz	2000 kHz	100 kHz
Sensor Accuracy	1 cm	1 cm	2 cm	2 cm	2 cm
OPERATIONAL SENSOR FEATURES					
Maximum Range	1800 m	1520 m	2180 m	3720 m	1548 m
Operational Altitude AGL@100%	210 m	220 m	340 m	820 m	222 m
Field of View	100°	75°	75°	75°	40° 28° flight
Safety Class	Laser Class 1	Laser Class 3R	Laser Class 3R	Laser Class 3B	Laser Class 3B
Waveform Processing	Online	Online	Online	Online	Online
OPTIONS					
DigiCAM - Up to 250 Megapixel	✓	✓	✓	✓	✓
DigiTHERM - Up to 3 Megapixel	✓	✓	✓	✓	✓
FRAMEtrack & LMtrack - Georeferenced preview of online data	✓	✓	✓	✓	✗
Gyro Stabilized Mount Support	✓	✓	✓	✓	✓
PLATFORM SUPPORT					
Helicopter	✓	✓	✓	✓	✓
Gyroplane	✓	✓	✓	✓	✓
Fixed-Wing Aircraft	✓	✓	✓	✓	✓
RPAS / UAV	✓	✓	✓	✗	✓

SELECTION OF INTEGRATED RIEGL LIDAR SENSORS - DIFFERENT SETUPS AVAILABLE ON REQUEST					
Brand	LM-680	LM-780-2S	LM-1260	LM-1460	LM-1560-3S
Mission Planning Software	IGIplan				
Flight Guidance System	CCNS-5 with Terrain Following & Corridor Mapping, Pilot and Operator Display				
Precise Positioning System	AEROcontrol Compact, export free MEMS & FOGS IMUs available up to 600 Hz				
Sensor Management Unit	IGIvisu with LMtrack - Georeferenced preview of online date, 13" touch-screen		RiAquire		
TECHNICAL SENSOR FEATURES					
Topographic Laser	✓	✓	✓	Dual Channel	Dual Channel
Scanner Pattern	Parallel Lines -20° -10° 0° +10° +20°	Parallel Lines	Parallel Lines	Parallel Lines	Parallel Lines, Crossed Lines per Channel
Wavelength	NIR	NIR	NIR	NIR	NIR
Pulse Repetition Rate	2400 kHz	2000 kHz	2200 kHz	2 x 2200 kHz	2 x 2200 kHz
Sensor Accuracy	2 cm	2 cm	2 cm	2 cm	1.5 cm
OPERATIONAL SENSOR FEATURES					
Maximum Range	4470 m	7100 m	7890 m	7900 m	7040 m
Operational Altitude AGL@100%	1000 m	1700 m	1890 m	1900 m	1630 m
Field of View	60°	60°	60°	60°	60°
Safety Class	Laser Class 3B	Laser Class 4	Laser Class 4	Laser Class 4	Laser Class 3B
Waveform Processing	Online	Online / Smart / Full	Online / Full	Online / Full	Online / Full
OPTIONS					
DigiCAM - Up to 250 Megapixel	✓	✓	✓	✓	✓
DigiTHERM - Up to 3 Megapixel	✓	✓	✓		✓
FRAMEtrack & LMtrack - Georeferenced preview of online data	✓	✓	RiAquire	RiAquire	RiAquire
Gyro Stabilized Mount Support	✓	✗	✗	✓	✓
PLATFORM SUPPORT					
Helicopter	✓	✓	✗	✗	✗
Gyroplane	✓	✓	✗	✗	✗
Fixed-Wing Aircraft	✓	✓	✓	✓	✓
RPAS / UAV	✗	✗	✗	✗	✗