



52<sup>nd</sup> Photogrammetric Week

## The modular System Concept of IGI

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IGI

[www.igi-systems.com](http://www.igi-systems.com)

## IGI PORTFOLIO



Guidance and  
Sensor Management

GNSS / IMU Systems

Sensor Systems  
Multi Sensor Systems



- DigiCAM, Dual DigiCAM, Triple DigiCAM, Quattro DigiCAM
- DigiTHERM, Dual DigiTHERM
  - LiteMapper
  - StreetMapper

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A modular system/design is an approach

- that subdivides a system into smaller parts (modules)
- which can be independently created
- and then used in different systems to drive multiple functionalities.

The beauty of modular system architecture is the ability of replacing or adding any one component (module) without affecting the rest of the system.

It provides:

- Reduction in cost (due to lesser customization and less learning time)
- Flexibility in design → scalability
- Augmentation (adding new solution by plugging in a new module)
- Exclusion of modules

## ***Why did IGI choose the modular system concept?***



- IGI wants to:
- provide flexibility in system configuration
  - from single sensor to multisensor system
  - from „air“ to „street“
- enable customers to adapt their aerial survey equipment according to specific project needs
- increase the usage rate of customers system components
- assist survey companies in reaching better efficiency rates

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## ***Does IGI meet the definition of a modular system?***



YES,

- Modular concept from flight planning to multisensor system
- Modules (components) are interchangeable: e.g. DigiTHERM using the same **S**ensor **M**anagement **U**nit (SMU) as DigiCAM
- Upgradable (in size and technology): e.g. Integration of DigiCAM and DigiTHERM into the LiteMapper series
- Existing modules are compatible with new modules: e.g. compatibility of existing (CCNS4, AEROcontrol) computers with the new SMU's
- Supporting Third Party Systems
- New developed modules fit into system architecture

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# The modular System Concept of IGI



**IGI plan**

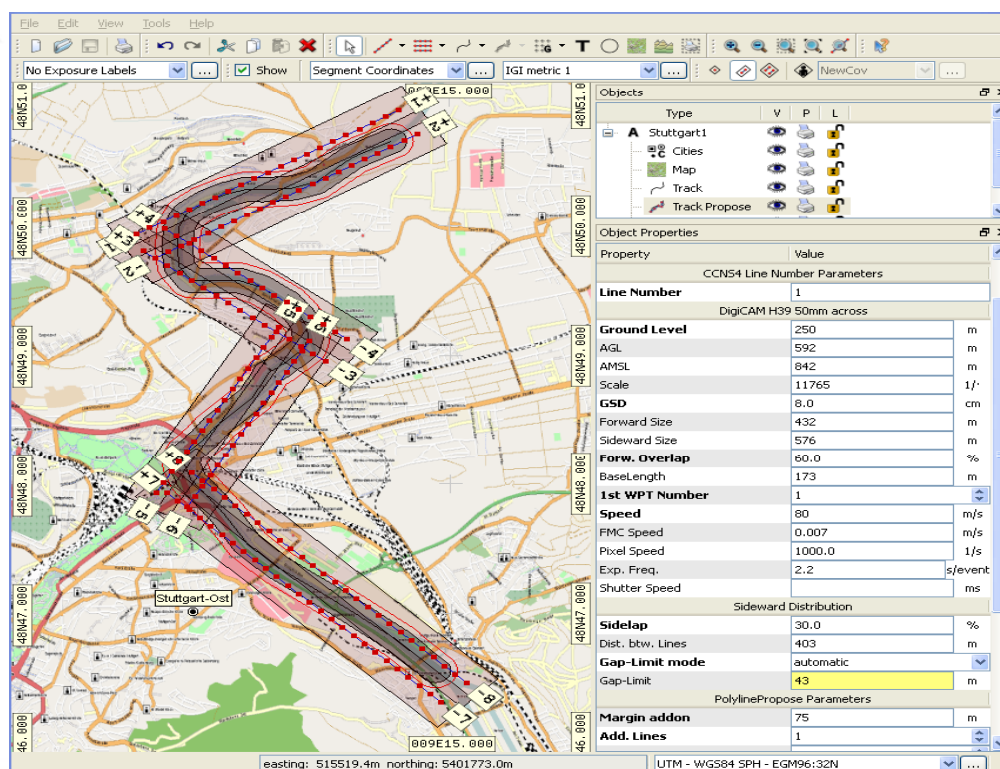


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## What are the IGI News?



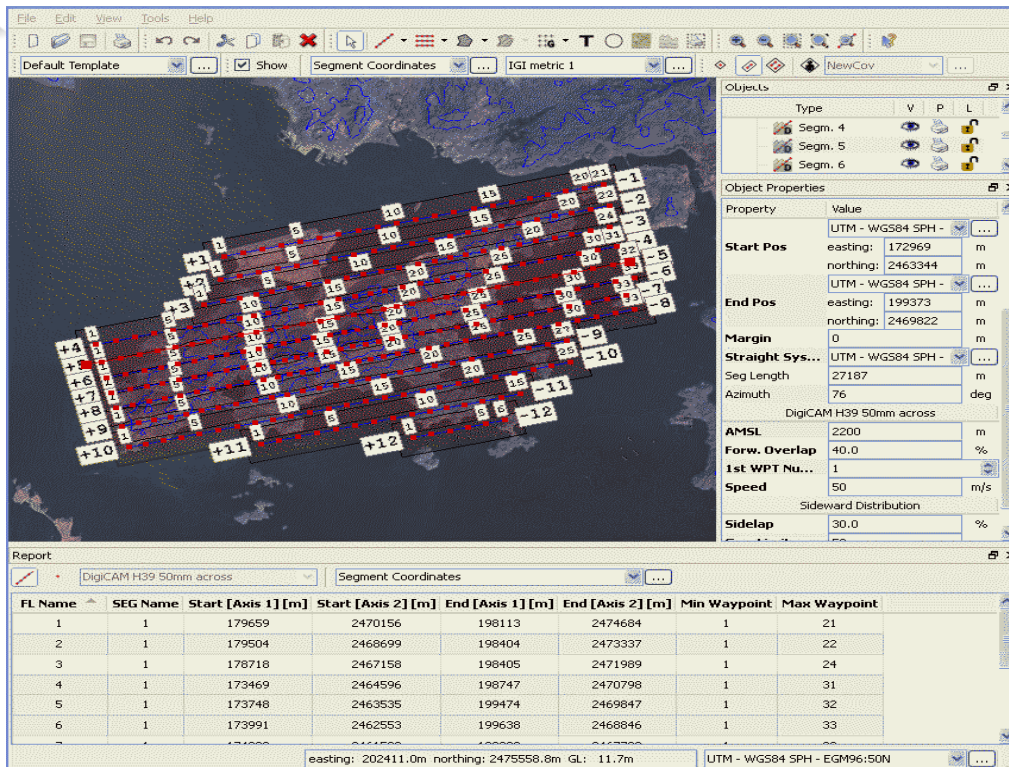
**IGI plan**



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## What are the IGI News?



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## What are the IGI News?



AEROcontrol with IMU Ile, AEROcontrol SMU (**S**ensor **M**anagement **U**nit)



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## What are the IGI News?



DigiTHERM with DigiControl SMU



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## What are the IGI News?



AEROcontrol with IMU Ile, AEROcontrol and DigiControl SMU





## What are the IGI News?



### Quattro DigiCAM Oblique



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## What are the IGI News?



### StreetMapper 360



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