

Leica ADS80

Airborne Digital Sensor

Best imagery even faster



- when it has to be **right**

Leica
Geosystems

Whether you want to capture airborne data of an agricultural area or of a city, record the challenges in a disaster area or the expanse of a power line, you need reliable measurements and solutions for your entire workflow to build image-based maps. Leica Geosystems' broad array of airborne sensors and integrated software solutions capture data efficiently, reference imagery accurately, measure easily, analyze and present spatial information in 3D.

Those who use Leica Geosystems products every day trust them for their precision, their seamless integration and their superior customer support. When data really counts, Leica Geosystems delivers geospatial imaging solutions with precision, integration and service.

When it has to be right.

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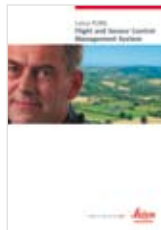


Total Quality Management – our commitment to total customer satisfaction.

Ask your local Leica Geosystems dealer for more information about our TQM program.



Leica FPES
Product brochure



Leica FCMS
Product brochure



Leica IPAS20
Product brochure



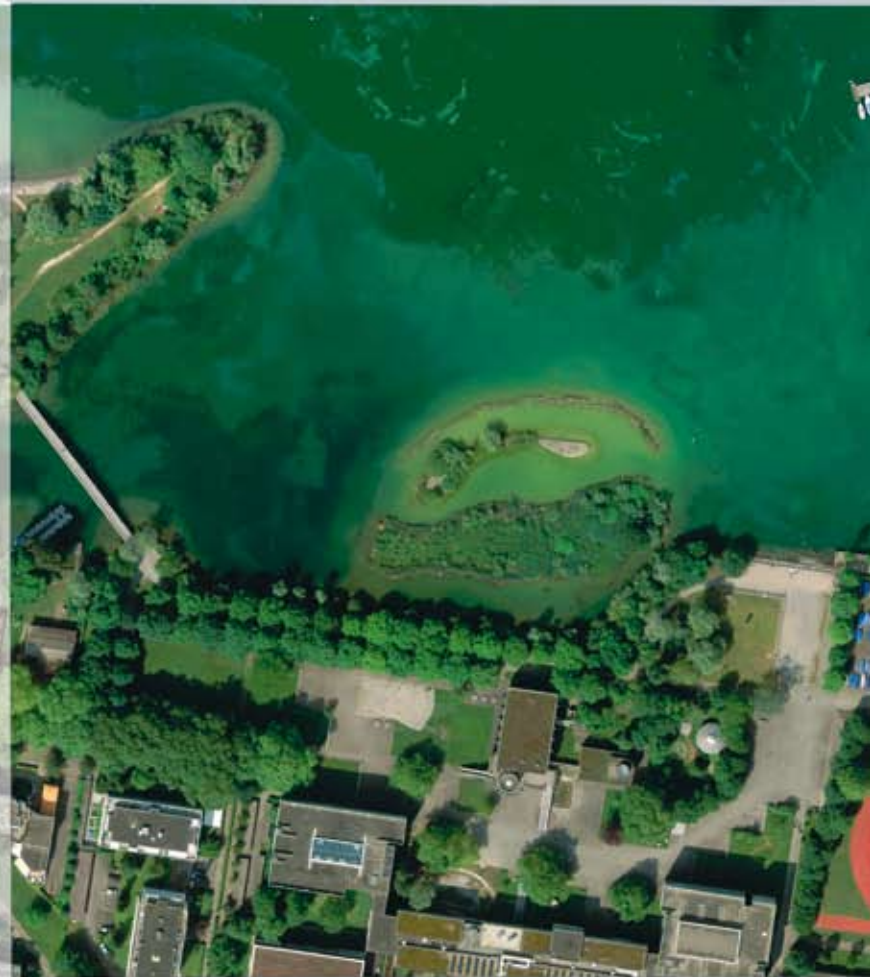
Leica XPro
Product brochure



Leica ALS60
Product brochure



**How is it that the Leica ADS80
line sensor technology is superior
to any other digital airborne imaging
technology?**



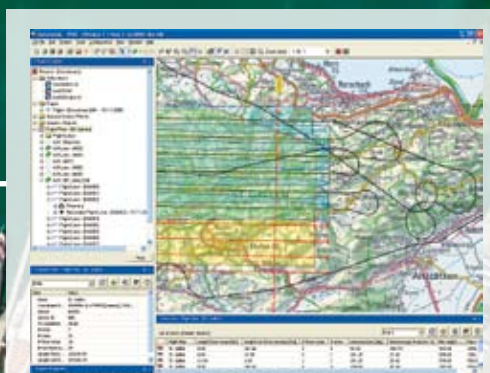
Leica ADS80 offers great opportunities

Best investment, best imagery, state-of-the-art geospatial information

The new Leica ADS80 airborne digital sensor is the best investment in your future. Leica Geosystems' advanced line sensor technology offers you performance in data acquisition and data processing superior to any other large-format digital camera.

- Simplicity – from flight planning to highly automated data delivery
- Flexibility – all applications from photogrammetry to remote sensing
- Productivity – the fastest workflow
- Efficiency – tight integration of all components
- Reliability – the complete airborne sensor solution from Leica Geosystems

Simply put, with the new Leica ADS80 you can get to better results much faster – at even lower cost.



Leica FPES Flight Planning & Evaluation Software

Airborne image acquisition starts with flight planning and ends with project evaluation. Optimizing your flight plan and monitoring the quality of your data is the key to cost effective mission completion. Leica FPES comes with all the features you need to execute your Leica ADS80 project economically from the start.

Flight Planning and Evaluation

Confidence in your data – subpixel accuracy from blue to infrared



Subpixel accuracy from blue to infrared

The Leica ADS80 is the only large-format digital airborne camera in the world that can make this claim. Its unique design provides clear advantages in data acquisition, always:

- Co-registered imagery with equal resolution in panchromatic, color and

color-infrared – even below 5 cm GSD

- No pan-sharpening
- Highest geometric stability, even in rough conditions.

With the all new Control Unit CU80, Leica Geosystems continues to deliver real benefits to its customers:

- New flash memory provides higher reliability and reduces the payload weight
- Increased data throughput allows simultaneous image acquisition for both photogrammetry and remote sensing
- Improved image data compression delivers even better image quality

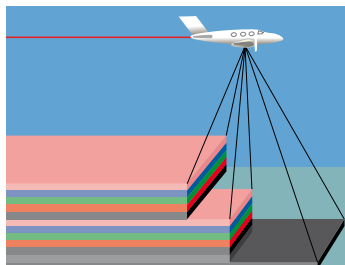


Leica FCMS Flight and Sensor Control Management

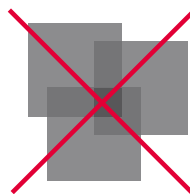
FCMS manages the data acquisition process, provides flight guidance and minimizes the interaction between sensor and operator. Additionally, in-flight quality control considerably increases productivity and cuts cost.

Data Collection and Georeferencing

Best imagery even faster – processed at the speed of flight



Leica Geosystems' line sensor technology is already setting the standards in airborne data acquisition. Now, Leica's brand new workflow solutions are setting the standards in digital image processing, making the Leica ADS80 the most powerful and most complete digital airborne imaging solution.



The new Leica XPro features improved functionality, speeds up flight data processing and saves you time and money:

- Fast quality control viewer for digital sensor imagery
- On-the-fly L1 rectification
- Fastest image processing speed on the market
- Simplified triangulation process
- Radiometric corrections included in the image load chain.



Leica IPAS20 Advanced Inertial Position & Attitude System

Direct georeferencing reduces the need for ground control points and shortens your production time significantly. The embedded Leica IPAS20 inertial position and attitude system is fully integrated into the Leica ADS80 and XPro workflow and features the latest GPS/GLONASS technology. It supports a range of IMUs and offers you maximum flexibility.

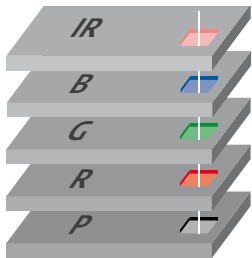


Leica XPro Download and Ground Processing Software

Leica XPro ground processing software offers the power to deliver even the largest projects in the shortest time. To go from data download to final product has just become simpler, better and faster.

Ground Processing

Leica ADS80 delivers best results



Our changing world demands up-to-date geospatial information. To remain competitive means to provide the highest quality imagery more accurately, more reliably and faster than anyone else.

Leica Geosystems' ADS line sensor technology, now in its third generation, helps

you stay ahead by providing subpixel accuracy from blue to infrared – processed at the speed of flight:

- It remains the only trusted and independently tested sensor solution that supports your photogrammetry and remote sensing applications
- You can continue to experience increased

flexibility, greater productivity and lower cost throughout the entire workflow

- You can spend less time processing and more time analyzing digital airborne imagery.

With the new Leica ADS80 airborne digital sensor, you will deliver best results.



Image Interpretation