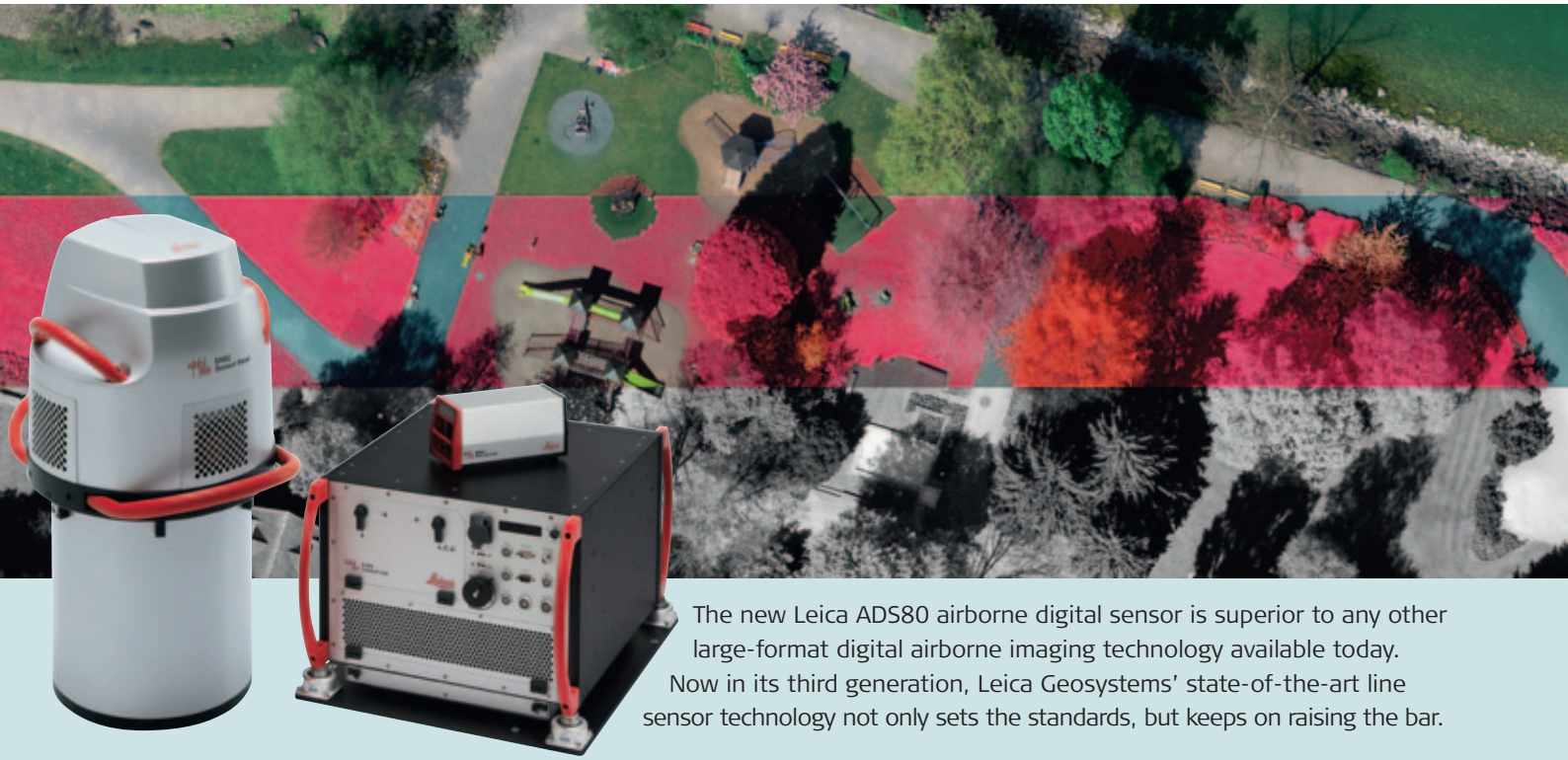
# Leica ADS80

## Airborne Digital Sensor
## Subpixel Accuracy from Blue to Infrared



The new Leica ADS80 airborne digital sensor is superior to any other large-format digital airborne imaging technology available today. Now in its third generation, Leica Geosystems' state-of-the-art line sensor technology not only sets the standards, but keeps on raising the bar.

**Delivering on what you need – best results**

Two available configurations, Sensor Heads SH91 and SH92, support the widest range of geospatial applications from orthophoto to 3D feature mapping. Take advantage of the tight integration of the sensor head, embedded IMU and the all new Control Unit CU80 and get what you need in data acquisition:

- Perfectly co-registered, equal resolution imagery in panchromatic, color and color-infrared delivers more information
- Increased cycle time allows even smaller GSD's (< 5 cm) at faster flying speeds
- Direct georeferencing with embedded Leica IPAS reduces the need for sidelap, ground control points and shortens production time significantly
- New flash memory MM80 for data storage ensures higher reliability and reduced payload
- Increased data throughput allows simultaneous data acquisition for photogrammetry and remote sensing
- New data compression guarantees even higher image quality in all bands
- No need for pan-sharpening, no "virtual images"

When combined with the new Leica XPro ground processing software, the Leica ADS80 becomes the most complete and productive large-format sensor solution available. It delivers increased flexibility, higher productivity and lower cost throughout your entire workflow.

- when it has to be **right**

Leica Geosystems

# Leica ADS80 Airborne Digital Sensor
# Subpixel Accuracy from Blue to Infrared

### Best Image Quality

- Patented Tetrachroid beamsplitter technology delivers perfectly co-registered, equal resolution imagery across all bands, always, even below 5 cm GSD
- Sensor Head SH92 offers highest resolution stereo viewing and feature extraction in true color and color infrared
- New data compression ensures even better image quality and extends the operational envelope

### Highest Productivity

- Embedded Leica IPAS with IMU reduces the need for sidelap and, depending on mission accuracy requirements, the need for ground control points. This can shorten production time or improve geometric accuracy
- Large field-of-view ensures efficient large area coverage
- Increased sensitivity provides extended operational envelope
- Higher data throughput allows simultaneous data acquisition for photogrammetry and remote sensing applications
- Fully integrated software solutions from flight planning execution and evaluation to ground processing ensure fastest turnaround

### Highest Flexibility

- Sensor Head SH91 provides equal-resolution panchromatic, color and color-infrared imagery and allows stereo viewing in panchromatic and color
- Sensor Head SH92 provides equal-resolution panchromatic, color and color-infrared imagery and allows full stereo viewing in all bands, from panchromatic to color-infrared
- Embedded Leica IPAS Freebird supports a wide range of interchangeable IMU's
- New Mass Memory MM80 flash disk technology simplifies data recording and in-flight data backup and reduces payload
- Leica ADS80 imagery is supported by a large selection of image processing and interpretation packages

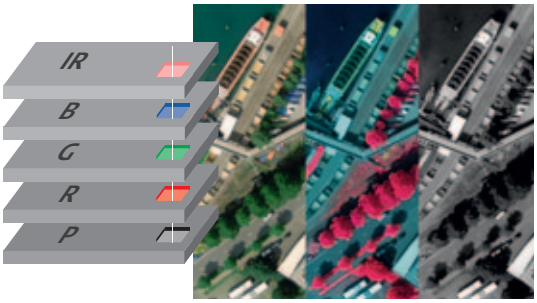
### Highest Reliability

- Tight integration of IMU, Focal Plate and temperature controlled single lens warrants highest geometrical stability, even in rough conditions
- Flash disk technology provides reliable data recording and data backup
- Complete and fully integrated sensor solution from Leica Geosystems
- Worldwide customer support

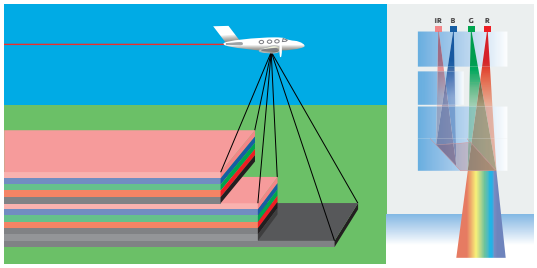
### Best Investment

- Upgrade Options for SH40, SH5x and SH8x to either of the new Sensor Heads SH91/92
- Upgrade from older GNSS/IMU systems to Leica IPAS Freebird

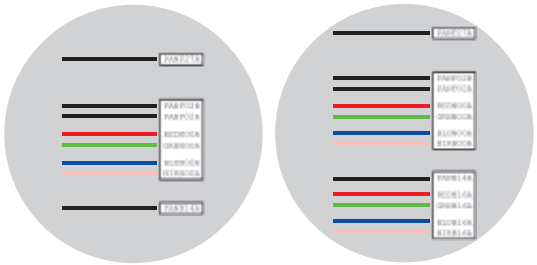
**Where large-format digital frame cameras reach their limits, the Leica ADS80 opens new areas of imaging.**




**Wide area coverage and equal resolution in panchromatic, color, and color-infrared images.**




**Shorter and faster high-quality workflow due to newest line sensor technology.**



**Focal Plate of SH91** **Focal Plate of SH92**

TQM ISO 9001 / ISO 14001

**Total Quality Management – our commitment to total customer satisfaction.**
Ask your local Leica Geosystems dealer for more information about our TQM program.

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**www.leica-geosystems.com**

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