

Leica RCD105 Digital Frame Camera for ALS

Imaging Performance, Integration Convenience



Imagine getting image sharpness that begins to rival high-end sensors. Imagine a system with plug-and-play integration to ALS-series LIDAR instruments. Imagine not having to worry about camera calibration, or whether your camera will still be working at the end of the season... or the end of the flight. Imagine the new Leica RCD105 Digital Frame Camera for ALS.

Leica RCD105 Key Benefits

- **Performance** – best available radiometric and geometric performance
- **Productivity** – fast frame rate and simultaneous RGB/CIR acquisition
- **Simplicity** – easy integration with ALS-series airborne LIDAR systems
- **Flexibility** – broad lens selection for differing job needs
- **Efficiency** – tight integration of ALS and camera workflows
- **Reliability** – robust purpose-built airborne camera, with user replaceable shutter

- when it has to be **right**

Leica
Geosystems

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While most medium-format imaging systems use off-the-shelf "prosumer" components, the Leica RCD105 is designed from the ground up as an airborne imaging system. It takes advantage of a unique design to provide an accurate and highly productive imaging system. Leica RCD105 adapts readily to changing job situations, while minimizing the additional effort needed to acquire concurrent image data on airborne LIDAR missions.

Get high-quality airborne images with a minimum of effort

Concurrent imagery is becoming an increasingly important component of LIDAR data acquisition. You need seamless integration with your LIDAR, and a camera that keeps pace regardless of flying heights, FOVs, spectral regions or mission durations.

Leica RCD105 advantages include:

- Smear-free images from fast 1/3649 second shutter speeds and rigid lens mounting
- Sharp images with edge discrimination greater than other sensors (including some large-format models)
- Simultaneous RGB and CIR with optional 2nd camera head (using a single Leica CC105 Camera Controller)
- Seamless integration with ALS instruments: electrically, mechanically and workflow
- Complete testing to all relevant standards
- Rapid start-up with Leica Geosystems' training and support
- Maximum up-time with user-replaceable lenses and shutters
- Minimal additional processing time, using proven IPAS software

The new Leica RCD105 adapts readily to changing job situations, providing imaging performance and integration convenience for concurrent LIDAR/image data needs.



Leica RCD105 – a purpose-built medium format airborne imaging system



Big cities, small towns... no problem for Leica RCD105's fast frame rate and shutter speed

Focal Length (mm)	at 1000m AGL flying height		at all flying heights	
	GSD (m)	Coverage (m)	FOV (degrees)	b/h (@ 60% FOL)
35	0.194	1391 x 1047	69.7 x 55.3	0.43
60	0.113	812 x 611	44.2 x 34.0	0.25
100	0.068	487 x 366	27.4 x 20.8	0.15

Flexibility of 3 standard lenses for optimal acquisition in a variety of applications



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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.

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