

LCMS ACQUISITION & LCMS ANALYSER V5

*Process more. Deliver faster.
Scale with confidence.*



Version 5 (V5) of Pavemetrics' LcmsAcquisition and LcmsAnalyser SDKs helps roadway, airfield, and rail teams process large datasets faster, reduce storage demands, and simplify workflows — so they can take on more projects and deliver results sooner.

Key Benefits

- Up to **6× faster processing speed** compared to a single V4 instance
- Up to **40% smaller proprietary .FIS files**
- Major reductions in **data storage requirements and transfer times**
- Improved **GPU utilization** for AI based models
- Easy upgrade using the **same SDK**

What's New in V5

- Fully automated parallel processing across all available CPUs and GPUs
- No need to manually split surveys or build custom chunking logic
- Elimination of border effects previously caused by chunk-based workflows
- Improved repeatability for rolling-window analytics such as IRI and longitudinal profiles
- Automatic CPU/GPU workload management for simpler, more reliable processing

Why it Matters

- Process more data in less time
- Reduce storage and transfer costs
- Simplify development and deployment
- Deliver cleaner, more repeatable results
- Make onboard and near-real-time workflows more achievable

Technical Highlights

- **Processing Performance** | Up to 6× faster than V4 (single-instance comparison)
- **File Compression** | Up to 40% smaller .FIS files
- **Parallelization** | Fully automatic across available CPUs and GPUs
- **GPU Optimization** | Enhanced execution of AI-based
- **Survey Handling** | No chunking, no overlaps, no duplicated processing
- **Compatibility** | Same SDKs, minimal code changes required



Contact and Support

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