

GEUTEBRÜCK

G-Insights



Your Benefits at a Glance

- ✓ **Faster investigations**
- ✓ **Higher search accuracy**
- ✓ **Less manual effort**
- ✓ **Lower operating costs**
- ✓ **Full data sovereignty**
- ✓ **Maximum use of existing infrastructure**

G-Insights

G-Insights transforms video surveillance from passive recording into an active source of information.

Users benefit from faster investigations, higher efficiency, better-informed decisions, and maximum investment protection – with full data sovereignty and no additional licensing costs.

Two Powerful Search Methods – Combining Metadata and AI

G-Insights offers two complementary search methods. Users can search both traditional camera metadata and utilize modern AI-powered similarity search. This enables flexible and efficient investigation of persons and vehicles.

Metadata Search

Metadata search uses information provided by cameras, such as object classes, vehicle types, colors, and other camera-specific attributes. This allows relevant objects to be filtered and identified quickly. The quality and scope of search results depend directly on the metadata available from the deployed camera systems.

AI-Powered Similarity Search

AI-powered similarity search enables investigations based on a reference image or a free-text description. To achieve this, G-Insights generates semantic embeddings from detected objects and identifies visually similar persons or vehicles across all connected cameras.

The Basis of AI Search: BestShot Images

AI-powered similarity search uses so-called BestShot images. Only images in which cameras have actually detected persons or vehicles and for which a BestShot has been generated are available for AI-based search. Therefore, the performance and reach of AI search depend directly on the quality of the object detection in the camera.

Maximum Flexibility for Different Use Cases

While metadata search is particularly effective for structured search queries, AI-powered similarity search enables investigations of persons and vehicles using enriched detailed descriptions. The combination of both methods delivers the best results for forensic investigations and complex searches.

Seamless Integration into G-SIM

G-Insights can be integrated directly into existing G-SIM installations. Security operators can start forensic investigations directly from the Operator Console and automatically transfer search parameters such as camera, timestamp, or selected image regions to G-Insights. Search results are displayed within the familiar working environment and perfectly complement the powerful playback and management functions of G-SIM.

Securely Designed – Privacy-Compliant by Design

G-Insights has been developed according to the principle of “Data Privacy by Design” and supports operators in complying with GDPR and the EU AI Act. The solution operates completely on-premise, does not store raw video data in its search databases, and provides role-based access control down to camera level. Configurable retention periods, automatic data deletion, encrypted communication, and comprehensive compliance mechanisms ensure the responsible and transparent use of AI in security-critical environments.

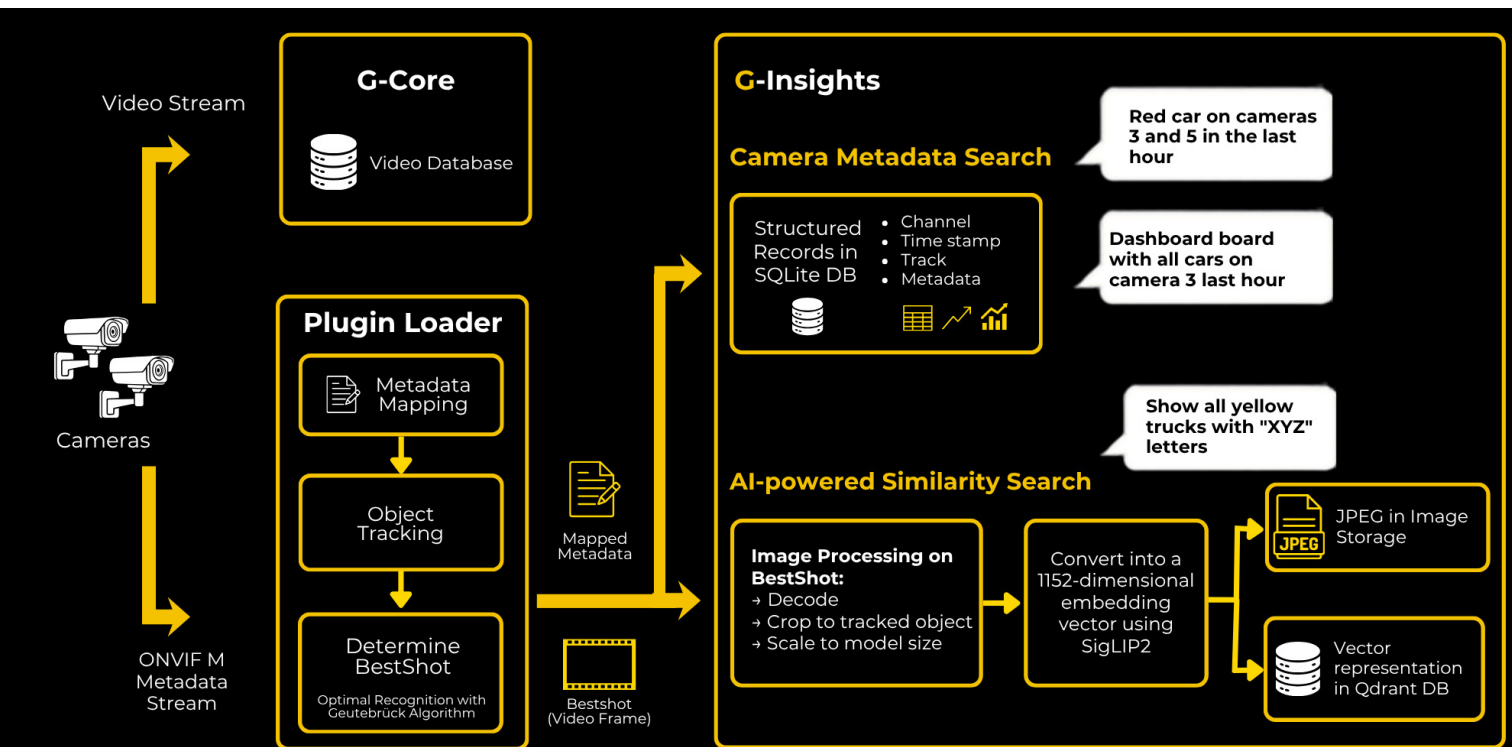
G-Insights at a Glance

- Forensic metadata search for persons and vehicles
- Dashboards and analytics based on camera metadata
- Camera-vendor-independent metadata integration
- AI-powered similarity search using images or free-text descriptions
- Up to 100 channels per server
- Up to 20 connected G-Core systems
- On-premise platform with full data sovereignty
- No additional licensing costs

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Data flow from the cameras to G-Insights

1. Cameras generate video streams and metadata.
2. Our proprietary algorithm determines the BestShot image of an object (person or vehicle).
3. Relevant information is transferred to G-Insights.
4. AI models generate semantic embeddings for similarity search.
5. Metadata, images, and embeddings are stored in an optimized manner.
6. Users conduct investigations using metadata search and AI search.
7. Matching video sequences are provided directly from G-Core in the G-Insights video player.



Installation Options

1. G-Core and G-Insights run on the same server (for small installations).
2. G-Insights is installed on a dedicated server for optimal performance.

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Performance & Scalability

System capacity is determined by the actual data rate (BestShots per minute) rather than solely by the number of cameras.

Reference Scenarios & System Boundaries

Low-Rate Environments

Areas typically characterized by low pedestrian or vehicle traffic.

- Up to 100 channels
- Full use of all G-Insights features

Medium-Rate Environments

Areas typically characterized by moderate pedestrian or vehicle traffic.

- Up to 50 channels for metadata search
- Up to 30 channels for AI-powered similarity search

System Integration

- Up to 20 connected G-Core systems per G-Insights instance

AI Storage Capacity

- Up to 36,000 BestShots per hour across all AI search channels

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System Requirements

The platform requires a G-ST3000+ G3 server and is supported exclusively as an on-premise solution.

For optimal performance, an **NVMe SSD with at least 4 TB** is recommended. When using AI-powered similarity search, an **NVIDIA RTX PRO 2000 Blackwell graphics card** is additionally recommended.

Component	Recommendation
Platform	G-ST 3000+ G3
Processor	Intel Core i7 (12. Generation or higher)
Operating System SSD	256 GB SSD with Windows 11
G-Insights Storage (SQLite DB, Qdrant DB, JPEG Image Storage)	SSD M2 2280 990 PRO - 4 TB SKU 5.36920
Network	Minimum 1 Gbit/s
Browser	Google Chrome or Microsoft Edge Version 149 or higher
Memory	Minimum 32 GB RAM
Graphics Card for AI Similarity Search	RTX PRO 2000 Blackwell, SKU 5.36921
Installed Software	Geutebrück Hub 1.1 or later G-Core 10 or later Plugin Loader 1.6 or later G-SIM 13 or later (optional)
Deployment Model	On-Premise

Additional Information

- [G-Insights Overview on our website.](#)
- [For more details, please refer to the G-Insights documentation.](#)
- [We have listed the compatible camera models here for you.](#)
- [Detailed Privacy & Compliance Information.](#)