



ISARSOFT

Trust through technology:

Data Protection and Information Security
with Isarsoft Perception

Table of Content

1. Our vision for smart intelligence	03-04
2. The legal framework	
a. GDPR as data privacy standard	05-06
b. Protection for the future with the EU AI Act	07-08
3. Certified security	9
4. Data privacy in practice	10-11
5. Information security in practice	12-13
6. Data sovereignty in practice	14
7. Top 9 questions	15-19
8. Contact	20

Our vision for secure intelligence

In a data-driven world, data protection has become one of the greatest challenges and a core concern for companies across all industries. While organizations, ranging from airports to retailers, are under immense pressure to comply with legal requirements such as the GDPR, there is a simultaneous growing need to analyze visual data to make operations safer and more efficient.

Isarsoft addresses this perceived contradiction between valuable, data-driven insights and the protection of personal rights, resolving it decisively.

At Isarsoft, data protection and information security form the foundation of all technological innovations. Protecting your data is far more than just a legal obligation - it is the essential basis for long-term trust between customers, partners, and stakeholders.

Through the philosophy of "Privacy-by-Design," Isarsoft Perception enables operators to move from mere observation to true understanding without compromising individual identities. Isarsoft's vision is an intelligent infrastructure where critical information for process optimization and increased safety is gained while the anonymity of every individual is preserved at all times.

Our vision for secure intelligence

Privacy-First-Innovation

Isarsoft Perception is developed with data protection at its core from the very beginning, making it an integral part of the software.

Transparency

We ensure that customers and partners understand exactly how their data is processed and anonymized.

Trust

We build partnerships on a strong foundation of security, reliability, and trust.

Data protection

Customer data is protected by robust, state-of-the-art security measures.

Process Management

Workflows are continuously monitored and improved to stay one step ahead of emerging threats.

Risk management

Risks are managed proactively and systematically. We undergo regular internal and external audits.

Best Practices

Our entire methodology is aligned with global standards for information security.

The legal framework:

GDPR as data privacy standard

In an era where visual data is critical to operational success, a clear understanding of the legal framework forms the foundation for any implementation of video security and video analytics.

Data protection as a standard with the GDPR

The General Data Protection Regulation (GDPR), in effect since May 25, 2018, is a binding set of rules across Europe. It protects natural persons during the processing of personal data and applies to all companies that process such data automatically or within filing systems.

Personal data encompasses all information relating to an identifiable natural person. Particularly worthy of protection are biometric data for unique identification, as well as information regarding health, origin, or beliefs. Isarsoft Perception minimizes this risk by anonymizing video streams in real-time without capturing biometric features.







The legal framework:

GDPR as data privacy standard

Conditions for compliant video security and analytics under GDPR

The principles of Article 5 and the lawfulness requirements of Article 6 of the GDPR apply. In practice, surveillance and analysis are generally permissible under the following conditions:

-  **Duty to inform**
Data subjects must be informed about the purpose of the processing. This is typically achieved via clear signage, for example, an information notice regarding the counting of passenger flows for capacity planning.
-  **Legitimate interests**
The operator must demonstrate a legitimate interest- such as security, process optimization, or accident prevention - that makes the processing necessary. At the same time, this interest must not be overridden by the fundamental rights of the data subjects.
-  **Data minimization**
The principle of data minimization must be upheld. Isarsoft Perception ensures compliance with this principle by immediately converting raw video footage into anonymous metadata.
-  **Data Protection Impact Assessment (DPIA)**
Due to the systematic and automated monitoring of publicly accessible areas on a large scale, a DPIA according to Art. 35 GDPR is generally mandatory for video analytics projects. This process requires a detailed prior analysis of the risks to the rights of data subjects, which must then be minimized through protective measures such as anonymization.

The legal framework:

Protection for the future with the EU AI Act

The EU AI Act: AI regulation with foresight

In addition to the GDPR, the EU AI Act sets new benchmarks for the deployment of Artificial Intelligence. This legislation follows a risk-based approach to ensure that AI systems are safe, transparent, and non-discriminatory.

Although Isarsoft Perception does not fall under the strictest high-risk requirements due to its avoidance of biometric identification, the software already fulfills the general due diligence obligations of the regulation today.





The legal framework:


Protection for the future with the EU AI Act


Conditions for using AI-based software under the EU AI Act

In general, the AI Act demands honesty toward users from providers and technical expertise from personnel. For video analytics software like Isarsoft Perception, the general transparency obligations under Art. 50 and the provisions for AI literacy in Art. 4 typically apply.

-  **Transparency and labeling:**
The AI Act obligates operators to inform individuals that they are interacting with an AI system. Isarsoft supports customers in this regard with clear documentation and the technical labeling of AI-generated content, such as automated pixelation.

-  **AI literacy:**
Software providers and operators must ensure that staff using AI systems have a sufficient understanding of the technology's functionality and limitations. The intuitive user interface of Isarsoft Perception facilitates this knowledge building without the need for lengthy training sessions.

- Avoidance of discrimination:**
 To guarantee fair results for all groups of people, Isarsoft Perception is trained on highly precise and representative datasets. This minimizes statistical errors and ensures objective analysis.

- Documentation and accuracy:**
 We provide comprehensive information regarding the intended purpose and the accuracy of our algorithms (e.g., a 99% detection rate). This provides operators with the necessary certainty to meet their accountability obligations toward supervisory authorities.

Certified security



ISO 27001 certification

ISO/IEC 27001 is the internationally recognized standard for Information Security Management Systems. It confirms that Isarsoft's information security practices, policies, and controls are independently and regularly audited, meeting the highest global standards.

GDPR compliance

Isarsoft Perception complies with all relevant data protection directives and regulations, including the GDPR. This compliance guarantees that data is collected, processed, and stored while strictly safeguarding individual privacy rights.



Made in Germany

As a Germany-based company, Isarsoft develops its AI-based video analytics software locally in Munich. The "Made in Germany" seal represents strict adherence to the highest European quality standards and a consistent commitment to local data protection regulations.



Data protection in practice



Real-time pixelation

Isarsoft Perception anonymizes video streams the moment they are created. This effectively eliminates the risk of storing unmasked faces or license plates, allowing customers to simplify their entire compliance workflow.



No biometric data

Isarsoft Perception automatically anonymizes faces and license plates as they move through the frame. The intelligent masking pixelates personal data in crowded environments with 99% accuracy. By processing metadata alone, person re-identification across multiple cameras remains possible without compromising privacy.

Data protection in practice



Irreversible anonymization

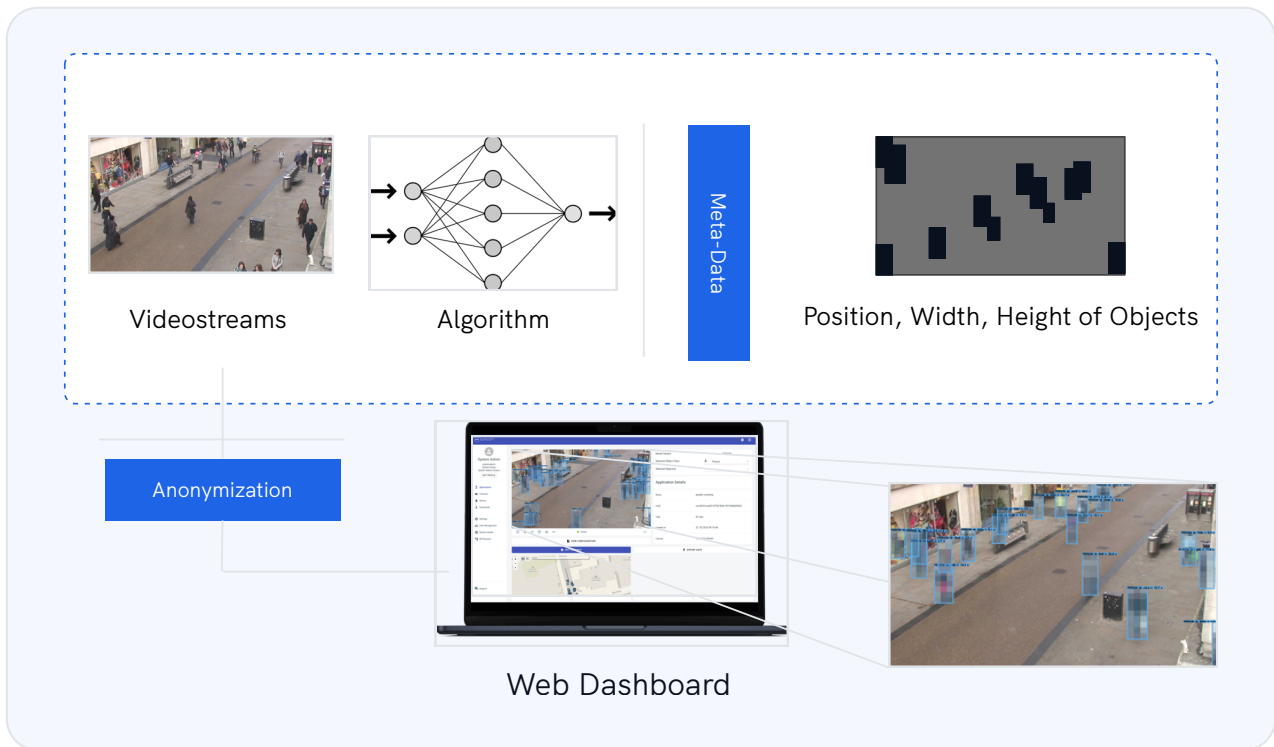
Instead of a simple overlay, Isarsoft Perception anonymizes the raw data permanently and irreversibly. Once processed, personal information cannot be recovered from exported files, providing maximum legal certainty.



Static exclusion zones

To ensure compliance with legal regulations, Isarsoft Perception offers the option to set up permanent exclusion zones for sensitive areas, such as private windows, neighboring properties, or employee-only zones.

Information security in practice



Process from raw video to anonymized application in Isarsoft Perception

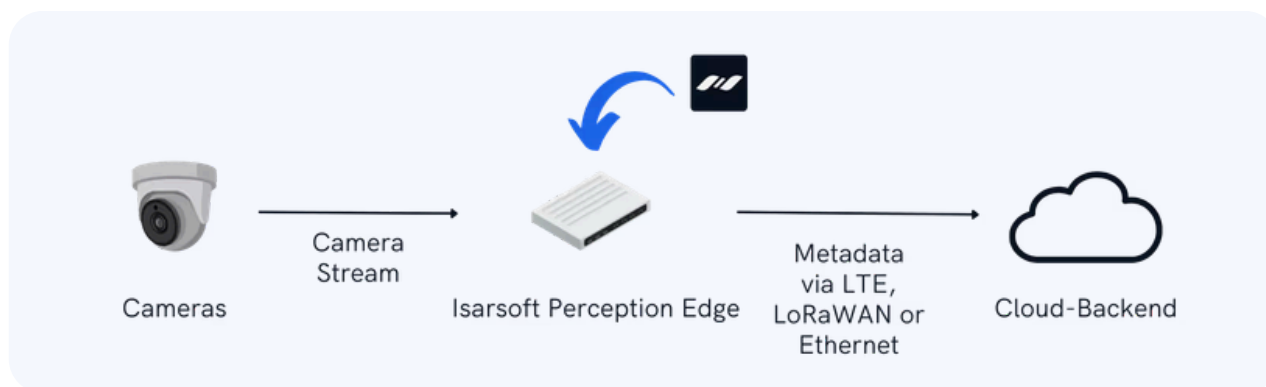
Encryption

Communication between the user interface and the server is secured via HTTPS. To ensure maximum data privacy, we exclusively use TLS with Perfect Forward Secrecy (PFS). While Isarsoft Perception generates a self-signed certificate by default upon startup, it can be easily configured to utilize custom, user-provided certificates to meet specific security requirements.

User Management

Access to the GraphQL API, the user interface, and all sensitive data is strictly controlled through integrated User Management. To ensure cryptographic security, all passwords are stored using salted hashes. Our permission structure is designed for maximum privacy; for example, the "Restricted User" level is prohibited from viewing any video or image data.

Data sovereignty in practice



Typical Edge deployment

Video data remains within the customer network

Isarsoft Perception enables the local processing of video streams on your own server or edge hardware, ensuring that sensitive data never has to leave the protected customer network. This on-premises approach guarantees maximum data sovereignty and eliminates the security risks associated with cloud uploads.

Independent and local processing

When performing analysis on an edge device, no external internet connection is required. This strengthens resilience against outages and ensures that confidential videos remain within the IT infrastructure at all times.

Anonymity through the metadata principle

Isarsoft Perception converts video streams into anonymous metadata by recognizing individuals, objects, and vehicles solely based on abstract features such as shape and color. This approach enables complex applications, including person re-identification across multiple cameras, without the need for facial recognition. Since the system does not store biometric features and raw video is discarded after analysis, privacy remains fully protected at all times.

Top 9 questions

① Does video need to be recorded for video analysis?

No. Isarsoft Perception makes the permanent storage of video data for analytical purposes redundant. While the legal admissibility of video surveillance in Germany is always based on a balance between the operator's interests and individual privacy rights, Isarsoft goes a decisive step further: The software converts raw footage - including faces and license plates - into anonymous metadata, such as object positions or count values, in real-time.

Since it is impossible to draw conclusions about specific individuals at any point, the legal risk for operators is significantly reduced. Even in complex analyses like re-identification, the system exclusively utilizes abstract features such as clothing or shapes instead of biometric data.



Top 9 questions

② In which areas is video analysis permitted?

Permissible areas (Predominant operator interest)

- Social or commercial spheres: Surveillance is generally permitted in areas where individuals are only captured briefly or incidentally, e.g., retail spaces, banks, gas stations, or parking lots. The objective here is the protection of property and assets.
- Workplace (with restrictions): Monitoring work areas is permissible if it serves a legitimate purpose, such as theft prevention at checkout counters. However, cameras may not be permanently directed at the faces of employees.
- Entrance areas & building facades: Cameras are allowed as long as they do not capture public spaces (streets/sidewalks). An exception is a narrow corridor of approximately one meter along the building's exterior shell.

Impermissible areas (Predominant privacy rights)

- Private sphere: Locations of social interaction and communication are protected, e.g., dining areas in restaurants, smoking corners, or visitor lounges.
- Public space: Filming public streets and spaces is prohibited for private individuals and companies; exceptions exist for authorities regarding danger prevention or for municipalities regarding traffic monitoring.

Absolutely prohibited areas (Taboo Zones)

- Intimate sphere: In areas such as changing rooms, sanitary facilities, or break rooms, security cameras are not permitted under any circumstances.

Top 9 questions

③ Where is data processed and stored? Are data transferred to Isarsoft servers or third-party cloud services?

By default, Isarsoft Perception is a local/edge-based solution. The entire video stream processing and data generation occur on the customer's own hardware, such as edge devices or centralized servers. No raw video data or metadata are transferred to Isarsoft servers.

The use of the cloud is entirely optional. While it is possible to send anonymous metadata to cloud providers for reporting purposes, this can also be achieved using local infrastructure. If a company chooses a local deployment, no data are transferred to Isarsoft or any third-party providers.



Top 9 questions

④ Where must the server be located?

The choice of server location is determined less by geographic position and more by access control: physical protection of the data storage must be ensured, as well as strict user authentication for authorized personnel. Isarsoft Perception offers maximum flexibility through various deployment options: The software can be operated locally on-site on edge devices, on your own servers, or in cloud environments such as AWS and Azure. While data processing for cloud solutions must be carried out by providers headquartered in the EU, local processing enables operation without any internet connection.

⑤ Does the software require regular communication with Isarsoft servers to verify the license?

No. Isarsoft Perception supports offline license activation. For deployments in remote regions or high-security environments with intermittent or no internet connectivity, the system does not require a "heartbeat" or a constant connection to Isarsoft servers. If no connection is available, the software continues to function normally and without interruption.

⑥ Who owns the data collected and generated by Isarsoft Perception?

All data collected and generated - including video streams, images, and metadata - belong exclusively to the customer. Isarsoft has no ownership of or access to this data. The customer retains full control over how the data is stored, used, and managed.

Top 9 questions

⑦ Are customer operational data used by Isarsoft for model training, product development, or other purposes?


We never use customer data for model training or product development without explicit, written consent and a separate data exchange agreement.

⑧ How does Isarsoft inform customers about security vulnerabilities or data breaches?

If we identify a security vulnerability in Isarsoft Perception, we notify affected customers via technical bulletins and provide patched versions or mitigation measures.

⑨ Is it possible to operate the software in a completely shielded or offline environment?

Yes. The software is capable of operating in a completely "air-gapped" or offline environment. This is a core feature designed for our infrastructure and security-conscious customers.

 *Is your question still unanswered?
Feel free to contact us via email at sales@isarsoft.com.*

**We are here to assist with
your data privacy and
security inquiries**



isarsoft.com



sales@isarsoft.com



+49 89 21536242