iOmniscient

Smart Video Compression

Keep important detail. Reduce video data.

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Video Demand Keeps Growing

Higher camera resolution raises storage and network use

More pixels

More video data

Greater network use

Camera resolution

Improving optics and higher resolution increase video size.

Network pressure

Even added 5G bandwidth is consumed as demand grows.

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Beyond H.265

AI based Smart Video Compression

90%+

further video size reduction versus H.265

H.265 baseline

H.265 is an industry standard compression protocol.

Additional reduction

Internationally patented Smart Video Compression reduces video size by 90% or more on top of H.265.

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High Resolution Where It Matters

Selective high resolution in the same video



Keep important areas clear

Preserve user-selected areas at high resolution.

Reduce detail elsewhere

Lower the resolution of the remaining areas in the same video.

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Users Define Importance

Select by identity or event

Faces and plates	Keep faces or license plates at high resolution when recognition matters.
Events	Keep relevant event types at high resolution.
Behavior	Compression is not determined by motion or restricted to a particular image zone. It can be based on sophisticated behavior criteria.

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Benefits of Smart Compression

Operational value of selective detail



Send large video on limited networks

Recognition

See important details such as a person's face in high resolution.

Less useful details, such as shoes, can be stored at a lower resolution.

Transmission

Transmit large video even where 5G networks are unavailable.

Storage cost

Savings can often be sufficient to pay for the whole system.

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About iOmniscient

Partnership

All iOmniscient Products run exclusively on Intel based computing hardware using OpenVINO™

- The use of Advanced AI technology that goes beyond Deep Learning enables iOmniscient to run its systems without the need for 3rd party GPUs.
- This reduces the power required by a factor of 16 – resulting in a 16-fold reduction in the carbon footprint.
- This is just one part of a multi-faceted program to help customers to implement Sustainable Systems.

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About iOmniscient

- iOmniscient is an **Ethical AI** company.
- It offers **multi-sensory (video-sound-smell) Artificial Intelligence based analytics for Autonomous Systems.**
- It focuses on ensuring **Outcomes** for its customers.
- With **over 2 decades of experience,** iOmniscient systems have been demonstrated to be **robust,** operating with high accuracy and few false alarms specially in **complex and crowded** environments.
- By design, its systems **reduce the cost of infrastructure** required:
  - they can use existing cameras
  - they require fewer cameras with lower resolution
  - they require 90% less storage and network bandwidth
  - they are computing light and require no GPUs
  - they allow autonomous operations requiring fewer personnel to operate
- iOmniscient has implemented projects in **70 countries.**
- With over **70 international patents** many of its capabilities are unique and unavailable from any other source.





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