

# Why Your Best Insights for Smart Spaces Come From Video Insights

TECHNOLOGY CONVERGENCE PROMISES BIG IMPROVEMENTS TO EFFICIENCY, SAFETY AND CUSTOMER EXPERIENCE.

**Smart Spaces Are Booming**  
 Cities, campuses, airports, retail and manufacturing are among the many organizations taking data-driven approaches to improvements in overall areas, thanks to the internet of things (IoT) and analytics.

**Increase Efficiency**  
By opening operations, improving the productivity of activities, and advance sustainability.

**Improve Safety**  
With IoT, the ability to protect people and property, and use other from crime and accidents.

**Enhance Customer Experience**  
With understanding of behavior and preferences help organizations improve the experience in their space.

## Intelligent Video Is Now a Rich Source of IoT Insights

Thanks to computer vision and AI, video is a rapidly growing source of insights and real-time alerts.



**Edge Processing:** Business leader intelligence estimates that 5.4 billion IoT devices owned by enterprises and governments will activate edge computing for data collection and processing in 2020.

**Privacy Protection:** Video analytics can help protect people and property, and use other from crime and accidents. Organizations must comply with GDPR rules.

## Lidar Provides 3D, Anonymous but Granular IoT Insights

Lidar, light detection and ranging, is a remote sensing method that uses a three-dimensional representation of the world. Lidar can be recorded like video for fine-grained insights for cities, campuses, airports, retail and manufacturing.



## Video Meets a World of Data

**Better Over Time:** Video is valuable on its own, and it will become even valuable over time as AI advances further and tackles more use cases and challenges.

**Better Together:** Video insights become even more valuable when combined with other data and business data to find correlations and insights in the ecosystem of data.

**Use Cases:** Video analytics and lidar are being used in an expanding number of use cases, including improving business, safety and quality of life around the world.

- Cities:** Traffic safety, parking, security, and planning optimization.
- Airports:** Baggage and worker safety, active gate and lounge optimization, and advanced baggage screening and sorting.
- Manufacturing:** Assembly worker monitoring and safety, quality control, and facility safety.
- Hospitals:** Patient positioning, behavior insights, and safety and patient care.
- Higher Education:** Campus safety and security, student experience and education quality enhancement.
- Stadiums:** Customer experience, safety and security, and crowd detection and walking-time tracking.
- Buildings and Facilities:** Security and safety, access control, and facility safety.
- Retail:** In-store customer behavior and preferences, product interactions and feedback, and store layout and management optimization.

The use of video in these wide-ranging applications is creating an incredible amount of new data that needs to be managed differently than other data.

**Growth:** Over 100 million cameras were shipped in 2017 with nearly 30 million more being HD.

**Management:** The amount of data generated is increasing exponentially, and the volume of data is growing.

## How Can You Get All the Benefits of Intelligent Video?

**Hitachi provides Lumada Video Insights, an end-to-end video solution to help organizations across industries and geographies build smart spaces to reach their desired outcomes.**

- Data Capture:** Hitachi's Lumada Video Insights provides a powerful, end-to-end solution for capturing, storing, and processing video data. It uses AI to extract key information from video, such as object detection, motion tracking, and facial recognition. 3D lidar adds granular information without collecting 2D.
- Data Storage and Management:** Hitachi's Lumada Video Insights provides a powerful, end-to-end solution for capturing, storing, and processing video data. It uses AI to extract key information from video, such as object detection, motion tracking, and facial recognition. 3D lidar adds granular information without collecting 2D.
- Data Integration:** Hitachi's Lumada Video Insights provides a powerful, end-to-end solution for capturing, storing, and processing video data. It uses AI to extract key information from video, such as object detection, motion tracking, and facial recognition. 3D lidar adds granular information without collecting 2D.
- Data Visualization and Analytics:** Hitachi's Lumada Video Insights provides a powerful, end-to-end solution for capturing, storing, and processing video data. It uses AI to extract key information from video, such as object detection, motion tracking, and facial recognition. 3D lidar adds granular information without collecting 2D.

**The Hitachi Advantage**

- Outcomes:** The integrated, turnkey solution provides you with the insights you want, without the time and cost of building a custom solution.
- Reliability:** Industry expertise in delivering smart spaces globally and in some of the most demanding environments.
- Growth:** Hitachi's Lumada Video Insights provides a powerful, end-to-end solution for capturing, storing, and processing video data. It uses AI to extract key information from video, such as object detection, motion tracking, and facial recognition. 3D lidar adds granular information without collecting 2D.
- Trust:** Sober, thoughtful, and Hitachi's mission: to deliver value and business value through technology. Hitachi's Lumada Video Insights provides a powerful, end-to-end solution for capturing, storing, and processing video data. It uses AI to extract key information from video, such as object detection, motion tracking, and facial recognition. 3D lidar adds granular information without collecting 2D.