

INFOSYS VIDEO ANALYTICS

UNLOCK BUSINESS INSIGHTS FROM VIDEO CONTENT



Video content is exploding thanks to the proliferation of mobile devices, instant accessibility to digital media, and the easy consumption of the video format. Videos contain tremendous amounts of data that are currently untapped by businesses primarily due to limitations in storing, accessing, and managing videos. At the enterprise-level, many struggle with meaningfully sifting through large video repositories to capture relevant insights.

Infosys Video Analytics – The Smart Way to Leverage Video Content

Infosys Video Analytics is an AI-based solution that empowers businesses to leverage video content for actionable business insights. Packed with rich features such as computer vision, it helps enterprises identify scenarios and objects within videos. The solution ingests feeds from motion and fixed cameras. Simultaneously, it also scans each frame of video, extracts

information about events in the frame, and saves this as metadata in a chosen database.

The solution architecture comprises many layers such as data persistence, data processing, and APIs for analytics. Other capabilities such as data mining, knowledge curation, and service curation are also available and can be customized to your needs.

Key Features

Adaptable model building

Users can configure the pre-built models available within the solution or use the training template to create new models for any specific use case.

Flexible and scalable architecture

The architecture is extremely flexible to suit centralized, distributed, cloud, edge, and hybrid deployment models. Designed for scalability, the solution allows each camera to run multiple analytics models in parallel.

Easy integration

As a platform-independent and camera-agnostic solution, Infosys Video Analytics integrates with all types of cameras. It also plugs easily into existing video camera and video management systems (VMS) as well as the enterprise repository of historical video data.

Open and extensible

By leveraging an open, standards-based, and extensible architecture, the solution allows businesses to incorporate video analytics into different requirements. For instance, it can handle various computer vision use cases and is customizable to meet specific organizational needs and operational processes.

Strong incident management and auditing

The technology issues real-time warnings and alerts about ongoing incidents by mapping to preset human, vehicle, and object behaviors. It can detect perimeter breaches, abandoned objects, removed objects, people movement, and vehicle activity. It also provides live video feeds that can be integrated with client command and control applications for monitoring, triaging, and auditing purposes.

Enhanced user experience

The solution provides visualizations of data in dynamic charts that can be generated using any open-source reporting tool or standard products like Microsoft Power BI and Tableau. It can process millions of events to provide correlation and trend analysis capabilities.

Continuous learning system

Configurable deep learning models reduce false positives and enable continuous improvements over time.

Security and data privacy management

The solution comes with secure system access including password and login controls according to standard guidelines. It can be customized and aligned to client security and data privacy requirements.

Applications of Infosys Video Analytics

Video motion detection	Detects valid motion in the video and filters out noise such as lighting changes and tree/animal movements	
	Detects and classifies an object as a human, vehicle, animal, etc., thereby reducing false alerts from non-security-related objects	Object classification
Camera tamper detection	Detects any attempt to tamper with the camera such as partially or completely blocking the field of view or drastically changing the camera angle	
	Detects when a moving object crosses a pre-defined line such as entry or exit directions that can be defined in any direction	Line crossing
Intrusion detection	Monitors secure areas with automated perimeter monitoring	
	Detects when a person remains in a particular area for longer than a specified time	Loitering
Abandoned and removed objects	Detects when an object is left unattended for too long and is not part of the usual scene, or when an object is removed	
	Counts the number of people, vehicles, and other objects within the frame, and generates comprehensive reports on people and traffic patterns	Video counter
Video summary	Reduces a long-archived video to a short, manageable summary with actual events for easy video search	

Key Benefits

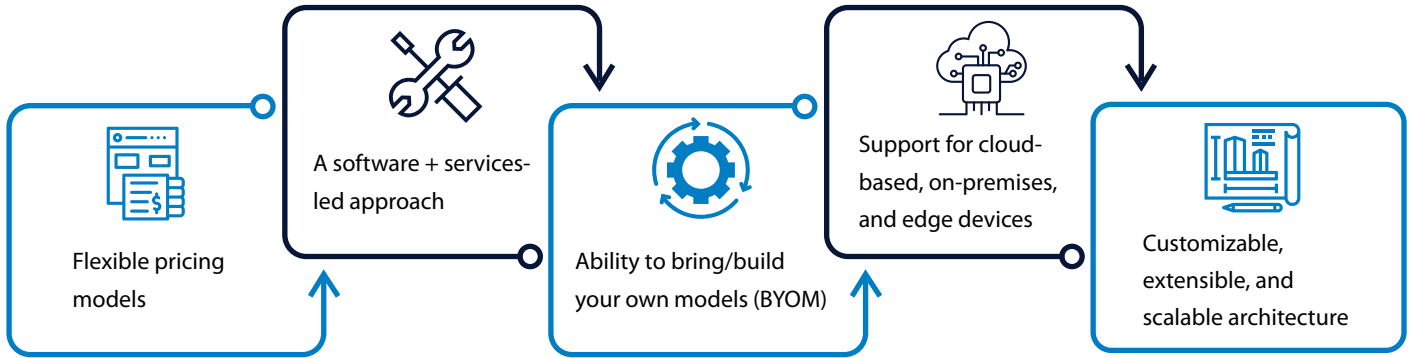
Infosys Video Analytics helps enterprises:

- Leverage insights from historical video data by integrating with active video repositories, thereby extending the value of existing infrastructure investments
- Capture and correlate valuable data with business KPIs to generate greater business value
- Reduce manual effort spent in monitoring video events
- Minimize errors in event or incident detection
- Improve how operations are executed, thereby reducing costs
- Rapidly investigate cases thanks to immediate anomaly detection
- Enhance process performance with the solution's scalable capacity



Why choose Infosys?

Infosys helps organizations reimagine their processes with a strong consulting approach that is integrated with the solution implementation. Our solutions based on Infosys Video Analytics give your enterprise:



Discover how Infosys Video Analytics can help your organization improve business performance. Reach us at appliedai@infosys.com to know more.

For more information, contact askus@infosys.com

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