

# RAYPACK<sup>®</sup>

A.I. ARTIFICIAL SOLUTIONS

## Video Recognition

### RAYPACK Video Recognition

RAYPACK Video Recognition is an AI-powered video analysis service that offers automatic extraction of information from videos frame by frame. It combines several AI models, each specialized on a particular aspect of the video ranging from objects and persons to celebrities and politics (Fig. 1). By adding and expanding these models, the extracted information can be custom-tailored to fit your specific business application.

The service can be deployed on our RAYPACK AI platform as a cloud application or can be conveniently embedded into existing systems on-premise. Like all our models it is easy to use for AI novices, while still offering flexibility to AI experts. We provide businesses with the capabilities to use the enormous potential of AI models, without creating AI dependencies.



Figure 1: RAYPACK Video Recognition tracks individuals and their activities throughout a video.

### Use Cases

RAYPACK Multi-Object Detection can be deployed in the archives of large broadcasting corporations. Usually, there is no detailed information on what and who is in the videos stored in these archives. Employees have to watch and sort the videos by hand. Using our service, broadcasting corporations can automatically create detailed summaries of their material increasing the effectiveness of content production - no AI-expertise required.

### Main Characteristics

By using RAYPACK Video Recognition, all processes related to video indexing can be automatized saving your employees the time to watch hours of video material and freeing them to work with the desired results (Fig. 2). Besides standard features like object and face recognition, our service includes:

- Celebrity recognition
- Tracking a person's screen time
- Detailed information on how much time is spent, e.g., talking.
- Transcription of spoken text
- Easy extension to new categories and targets by transfer learning based on our modal network method

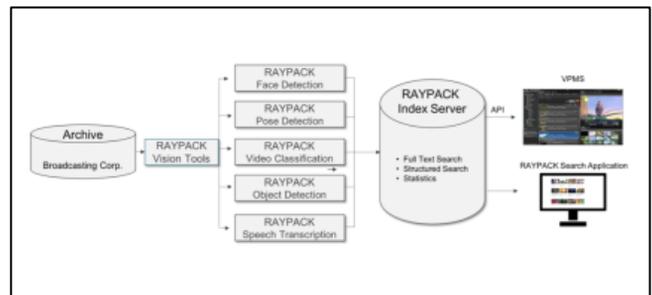


Figure 2: The RAYPACK Video Recognition service offers a fully integrated solution for filtering relevant information out of video archives. The results can be accessed via our straightforward API.

### Privacy Regulations

All RAYPACK solutions offer anonymization of images and videos before storage, facilitating compliance to the European General Data Protection Regulation (GDPR). The AI model analyzes the acquired data in real time, and only the relevant output is stored in a vectorized form.

## Video Recognition

### Key Features

RAYPACK Video Recognition provides several advantages as indicated below:

- Works with images, VOD or live streams
- Provides easy to use JSON or rendered images as output
- License on-premise or cloud
- Supports CPU, GPU Desktop and ARM
- Simple to embed in existing systems
- GDPR compliance facilitated

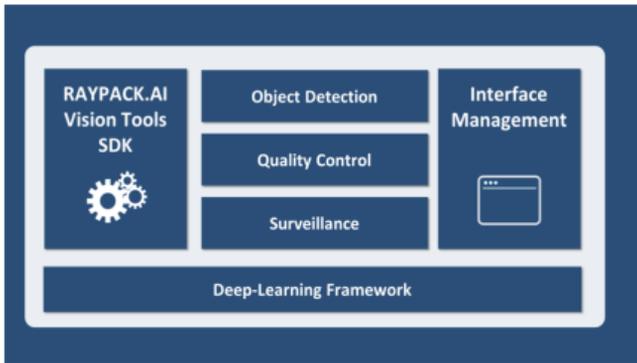


Figure 3: On top of Deep-Learning models our RAYPACK AI platform offers a variety of tools designed to increase the efficiency of your workflow.

### Architecture

Besides our ready-to-deploy models, our RAYPACK AI platform offers:

- An intuitive user interface and API
- RAYPACK Vision Tools SDK to simplify the import and usage of images and videos
- Surveillance and quality control of deployed models

The platform is designed to facilitate accessibility for AI novices and help experts to gain the highest possible flexibility. Together with our hardware partner [Rebotnix](#), we leverage extensive knowledge in the deployment of AI models.

### Want to know more?

Are you interested in learning more about RAYPACK Video Recognition? Visit us and request your free trial key to our API on <https://raypack.ai/raypack-video-recognition/>.

### About RAYPACK

Having an experience of over 15 years in Big Data and Visual Analytics, our team has been continuously developing the roots of RAYPACK.AI to meet the market needs perfectly.

With substantial expertise in Visual Computing, we focus on bringing together AI and businesses by offering customized, highly scalable AI software solutions that power manufacturing, quality control, and other fundamental business processes.



### Contact us

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