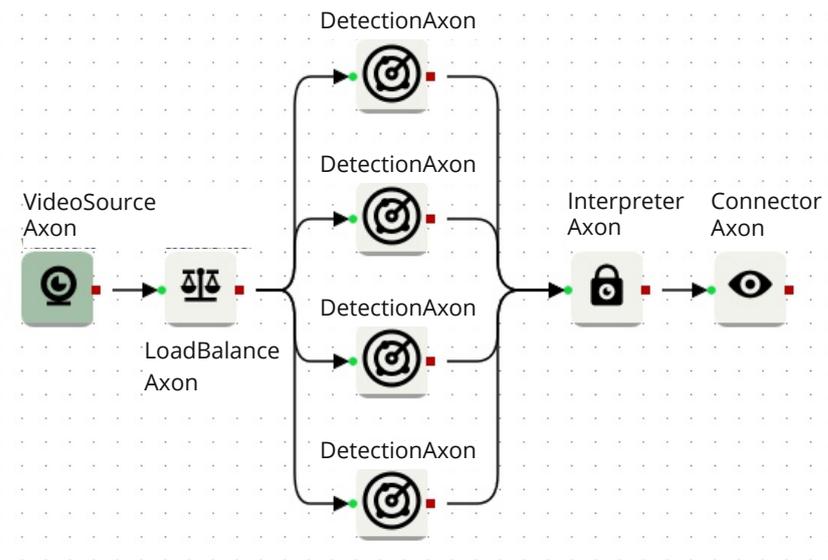


Large bandwidth and high speed internet plus the effective compression of images, make video content analysis in the cloud a valid option to consider. Where the Gatekeeper, AVUTECH's visual IoT sensor, offers an embedded solution at the edge and CortexServer (NPU) adds intelligence to an (existing) camera system on premises, a subscription to CortexCloud offers deep learning services in the cloud. Whether a project has a temporary character or IP camera's have already been installed, the ease of use of CortexCloud is a great advantage. All this solution needs is an IP camera.

CortexCloud: Cloud based custom computer vision solutions

CortexCloud distinguishes itself by offering a fully customizable, remotely configurable computer vision application in the cloud. AVUTECH's ANPR engine has proven to read license plates flawlessly, while a suite of base models offer object detection, cityscape segmentation and human pose estimation. All there to be run in the cloud.



A configuration of pre-built Axons, or building blocks, form a Cortex representing an end-to-end computer vision application. Images flow through the Cortex being processed, contextually analyzed and prepared for exchange with third party systems.

CortexTemplates provide example design to ease up the creation of custom computer vision applications. Simply drag-and-drop Axons in a Cortex design and connect them using CortexClient.

A deep learning example Cortex existing of Axons interconnected by video and messaging paths running an AVUTECH object detection network.

CortexFramework

CortexCloud, in essence, is CortexFramework in the cloud. AVUTECH's modular software platform for computer vision applications analyzes video data in real-time, regardless if it is hosted in the cloud, on a local server or at the edge in a deep learning IoT sensor. Results obtained from detection, tracking or classification are provided in a well-defined format, that enables easy integration with any other system.

CortexFramework is the foundation of every AVUTECH product. It allows users to build and manage computer vision applications from a single modular development and operational environment. By building a personalized configuration, ANPR or detection events can trigger actions and alarms across any integrated system. Refer to the CortexFramework brochure or visit our website AVUTECH.com for more information on our computer vision platform.



CortexClient

CortexClient is AVUTEK's graphical interface to remotely configure CortexFramework. It allows to visually build and configure customized computer vision applications, Cortexes. CortexClient connects to and manages all CortexFramework devices, local and remote.

CortexDashboard

The optional online dashboard provides a real-time overview of the active detection by displaying the live video stream. It shows graphics and statistical reports to give a clear insight in for instance peak hours, recurring license plates or counted people or bicycles. The dashboard is customizable to suit all needs, and since it is offered in a browser, it can be viewed on smartphones, tablets and laptops.

Benefits of CortexCloud

- Access to a personal configurable computer vision application in the cloud
- All the functionality of CortexFramework
- Remote configuration with the use of CortexClient
- AVUTEK's highly accurate ANPR engine
- Choice of deep learning base models for detection, classification or segmentation tasks
- Results obtained from detection, tracking or classification in a well-defined, easy to share format
- Pre-built webservice, database and VMS connectorAxons to output the results
- Optional CortexDashboard for a real time overview

AVUTEK

As a Dutch developer and manufacturer of ANPR sensors and system solutions, AVUTEK's expertise and knowledge have set a benchmark for quality and the best available accuracy. The in-house developed AI hardware and software cooperate seamlessly to provide a maximum accuracy and speed in ANPR or any other Video Content Analysis. From embedded ANPR IoT sensors to a complete computer vision and recognition system, AVUTEK provides nothing but the best, with the highest possible flexibility, all fully remotely managed.

Invitation

The possibilities and configurability of CortexFramework make CortexCloud unique and powerful. AVUTEK is always interested to learn how we can be of service in any video analytics challenge. We invite you to contact our computer vision specialists or sales department to further explore your possibilities.