



X-Series

multi purpose embedded AI cameras

FAMILY OF AI CAMERAS

AVUTEC manufactures and develops visual sensor systems that offer affordable and practical AI applications. New technology in hardware and software is translated into products that embody the benefits of AI. AVUTEC moves intelligence further towards the edge with the models of the X-series. Increased computing power and high quality visual sensors along with lean computer vision algorithms turn AVUTEC cameras into fast and accurate AI devices.

The X-Series is the AVUTEC complete product line of multi purpose AI cameras. With unprecedented computational power, the X-Series features state of the art edge computing.

The X-Series product line contains 5 different models, that all have their own distinctive specifications. The product line can be divided into two main categories. The first category contains models designed for ANPR and additional deep learning tasks to extend ANPR with contextual data. This category offers both models for standalone installation and models that can be built-in. The second category contains the model, that is specialised in extracting 3D information from stereo view video and performing deep learning tasks of all kinds.

All models perform various deep learning tasks in parallel, execute additional data analysis and connect with any third party system to share the end results. While computationally equal, their differences offer a model for each visual AI project.



GATEKEEPER 1250X and 410X

Equipped for both ANPR and deep learning tasks, the Gatekeeper 1250X and Gatekeeper 410X are real allrounders. The IR sensitive camera, IR LEDs and daylight filter make them excellent for ANPR. The 4K full colour camera paves the way for additional deep learning tasks, overview or a second source for ANPR.

The motorized zoom lens enables flexible positioning and provides a large recognition range up to 25 meters. These Gatekeepers can be pole or wall mounted, recognising from a distance.

The Gatekeeper 1250X and Gatekeeper 410X can be found in city environments reading license plates, classifying traffic and counting people. They perform perimeter security tasks on construction sites and are the perfect choice in access control installations.

GATEKEEPER Traffix

Recognising license plates of free flow traffic is what the Gatekeeper Traffix does the best. With its fast IR sensitive monochrome camera, IR LEDs, motorized zoom lens (6-20 meters) and daylight filter it captures license plates of speeding cars at a stunning 70fps. The 4K context camera is used for overview and various deep learning tasks.

Its powerful hardware allows for ANPR and deep learning tasks running in parallel. The merge of image processing, video content analysis and vast integration features guarantees accurate recognition and integration with any third party system.

The Gatekeeper Traffix offers recognition technology for applications where accuracy, speed and automation are essential objectives.

COMPACT INTELLIGENCE

Part of the X-series, these two models (190x80x67mm) offer compact intelligence. Modern looks and slim posture turn them into small AI devices with great sensory abilities. The IP66-rated enclosure ensures a rugged design and construction that is suitable for outdoor use. Still its elegant and modern looks make it fit in any indoor environment. Pole or wall mounted, even built into a terminal, barrier unit or scan car, the Modules perform their tasks in a discreet manner.



MODULE-X IR

Mounted or built-in, the Module-X IR is designed for ANPR-X and deep learning tasks.

The module is equipped with a daylight filter, a P-iris, synchronized IR LED, an IR sensitive and a 4K full colour camera. Powered with neural processing power, this combination is ideal to capture license plates under all weather and light conditions, while at the same time running deep learning tasks.

The Module-X IR is the perfect choice for any parking, access control, surveillance or car wash solution. It opens a gate, shares recognition results and communicates with any system. It can even automate contactless payments based on a license plate.



MODULE-X 3D

Designed for deep learning and 3D analysis of video streams the Module-X 3D is equipped with two 4K full colour cameras and AI technology.

Powered by its multi purpose hardware and computational strength, the Module-X 3D runs an unlimited variety of recognition modules. Its generalistic character offers the choice to either detect and classify objects or people, calculate their exact 3D position or interpret their pose.

The combination of the AVUTEK AI integration platform, pre-trained or custom trained networks and its unique hardware constellation, offers a device that is unique in the world and it's versatility.

STANDALONE OR PART OF A BIGGER SOLUTION

As all AVUTEK products feature CortexFramework, the X-series family is no exception to the rule. CortexFramework unlocks AI for businesses by offering connectors for integration with third party systems. Its modular character offers a custom solution for every video content analysis challenge.

All X-series models come with a Wiegand and OSDP interface. I/O pins offer the possibility to switch open gates and barriers or to operate any electrical device directly. Installation is made easy since no external power supply is required as the X-series are powered by a single PoE+ Ethernet connection.

AVUTEK is always interested to learn how we can be of service in any video analytics project. Contact our salesteam at +31 88 2444 010 or sales@avutec.com.