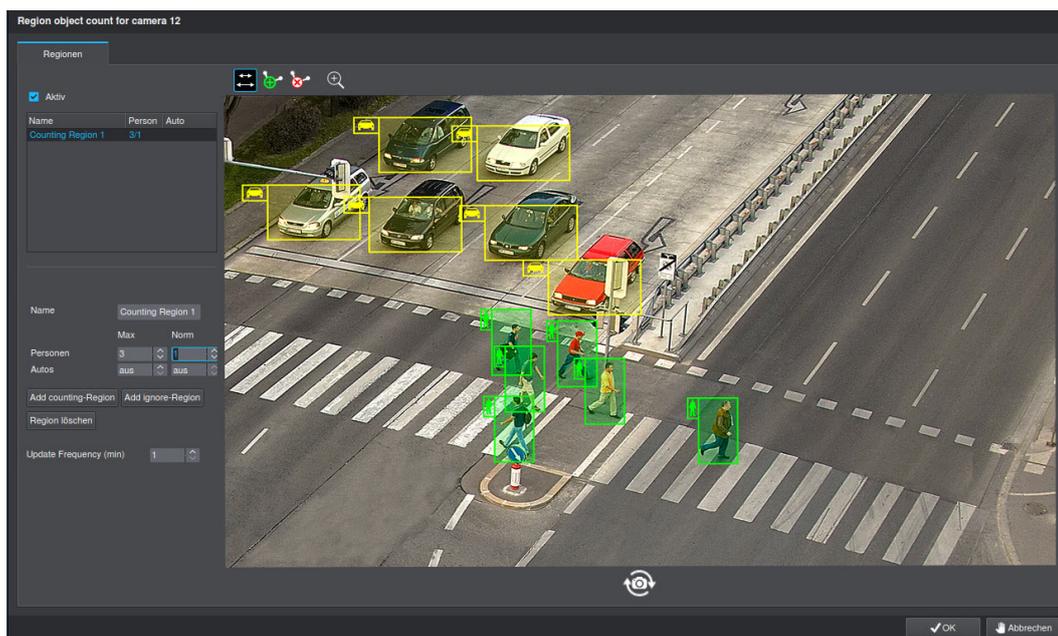


SEDOR® AI Counting Apps

SEDOR® Video Analysis Apps for obtaining the number of persons and vehicles in definable areas with a powerful Artificial Intelligence object classification based on neural networks



The SEDOR® AI Counting Applications enable the automated counting of persons and vehicles in freely definable areas indoors and outdoors. In addition to the output of absolute counting results, the software supports the comparison of the results with defined threshold values. This allows the automated output of the utilization of different areas and the reporting of over-utilization or queues.

Configuration

The SEDOR® AI Counting Apps are offered as an option for the latest Dallmeier recording systems. A graphical user interface allows the configuration of the analysis directly in the provided image.

Function

The SEDOR® AI Counting Apps are designed for the direct analysis of images from cameras and Panomera® systems, which are retrieved in a definable cycle. The software recognizes persons and vehicles based on a specially trained neural network for object classification and verification, which uses the computing power of a GPU card integrated in the appliance or of an external AI server.

Performance

The SEDOR® AI Counting Apps support the analysis of Dallmeier network cameras and Panomera® systems as well as 3rd party video cameras. The computing power for the image analysis depends on various factors such as the resolution or the frame rate of the video streams. In combination with the SEDOR® AI Professional Package (internal GPU card), sufficient performance is already available for the analysis of up to 32 video streams with all four apps. For larger installations the use of the apps in combination with the SEDOR® AI Premium Package (external AI server) is recommended.

Consulting and Planning

The optimal functioning of a high-quality and accurate video analysis system always requires the consideration of a multitude of influencing factors on site. For example, the expected occurrence of relevant events or objects can have a direct impact on the number of video streams that can be analyzed. The required computing power is also strongly influenced by image areas with permanent movements (water areas, green spaces, etc.). Dallmeier offers intensive consultation in the run-up to a project and a variety of options to support the planning of a system.

SEDOR® AI Professional and Premium Package

The SEDOR® AI Counting Software is offered ex factory for the IPS 10000 appliance. In addition to the required hardware (GPU card or AI server), the upgrade package includes the license for the use of the SEDOR AI Counting Software, which can be scaled as required for individual network cameras or Panomera® systems through channel licenses for each app.

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The SEDOR® AI Counting Software¹⁾ offers a graphical user interface for the configuration of the SEDOR® AI Counting Apps and the calibration of the camera. Extensive functions enable the simple definition of relevant areas and the configuration of the analyses.



SEDOR® AI People Count App

The SEDOR® AI People Count App analyzes the entire image content in a defined cycle and determines the number of people present in defined areas. Based on this, irrelevant objects are effectively filtered out by object classification based on a neural network in order to achieve the most accurate counting result possible.



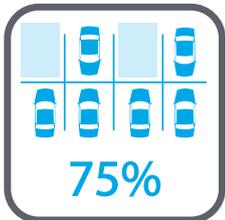
SEDOR® AI Vehicle Count App

The SEDOR® AI Vehicle Count App allows large scenes to be divided into different zones and cyclically determines the number of objects. After an accurate object classification based on a neural network, the number of existing vehicles is promptly output.



SEDOR® AI Queueing App

The SEDOR® AI Queueing App is used to display the fill level in defined zones. The relevant zone and a limit for the number of people present is defined during configuration. After a cyclical analysis with AI object classification, the utilization is immediately displayed and a message is issued if the limit is exceeded. This allows the initiation of specific measures to avoid overcrowding situations, but also undesirable states such as long queues.



SEDOR® AI Parking App

The SEDOR® AI Parking App has been developed especially for the effective evaluation of parking situations. It recognizes, verifies and counts vehicles in the defined parking zones and cyclically outputs the occupancy rate based on a defined limit. This enables an operator to obtain a quick overview of the parking space occupancy at any time.

1) Please note that the SEDOR® AI Counting software cannot be operated together with the SEDOR® AI Intruder Detection software on one device. Due to the required computing power for the respective neural networks, a dedicated appliance / AI server is required in each case.

SEDOR® AI Counting Apps

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SEDOR® AI Professional Package	
007370	SEDOR® AI Professional Package for IPS 10000 License for the use of the SEDOR® AI Software included, license for the use of the SEDOR® AI analysis functions per channel optional, upgrade of an IPS 10000 (with 3x power supplies) by a powerful GPU card, only ex works

SEDOR® AI Premium Package	
008020	SEDOR® AI Premium Package Server package for the analysis of video streams based on neural networks, licence for the use of the SEDOR® AI Software included, licence for the use of SEDOR® AI analysis functions per channel optional, powerful AI server hardware included, only ex works (1x dongle)

SEDOR® AI People Count App (IPS 10000)	
008106	DLC - SEDOR® AI People Count App for Single Sensor Camera Licence for the use of the app for counting people in large areas based on neural networks for a Dallmeier network camera with VCA support
008107	DLC - SEDOR® AI People Count App for 3rd Party for Single Sensor Camera Licence for the use of the app for counting people in large areas based on neural networks for a 3rd party network camera
008108	DLC - SEDOR® AI People Count App for Panomera® S/W 4 Licence for the use of the app for counting people in large areas based on neural networks for a Panomera® S/W 4 system with VCA support
008109	DLC - SEDOR® AI People Count App for Panomera® S/W 8 Licence for the use of the app for counting people in large areas based on neural networks for a Panomera® S/W 8 system with VCA support

SEDOR® AI Vehicle Count App (IPS 10000)	
008110	DLC - SEDOR® AI Vehicle Count App for Single Sensor Camera Licence for the use of the app for counting vehicles in large areas based on neural networks for a Dallmeier network camera with VCA support
008111	DLC - SEDOR® AI Vehicle Count App for 3rd Party for Single Sensor Camera Licence for the use of the app for counting vehicles in large areas based on neural networks for a 3rd party network camera
008112	DLC - SEDOR® AI Vehicle Count App for Panomera® S/W 4 Licence for the use of the app for counting vehicles in large areas based on neural networks for a Panomera® S/W 4 system with VCA support
008113	DLC - SEDOR® AI Vehicle Count App for Panomera® S/W 8 Licence for the use of the app for counting vehicles in large areas based on neural networks for a Panomera® S/W 8 system with VCA support

SEDOR® AI Queueing App (IPS 10000)	
008114	DLC - SEDOR® AI Queueing App for Single Sensor Camera Licence for the use of the app for determining the number of persons in defined zones and reporting when a defined limit is exceeded based on neural networks for a Dallmeier network camera with VCA support
008115	DLC - SEDOR® AI Queueing App for 3rd Party for Single Sensor Camera Licence for the use of the app for determining the number of persons in defined zones and reporting when a defined limit is exceeded based on neural networks for a 3rd party network camera
008116	DLC - SEDOR® AI Queueing App for Panomera® S/W 4 Licence for the use of the app for determining the number of persons in defined zones and reporting when a defined limit is exceeded based on neural networks for a Panomera® S/W 4 system with VCA support
008117	DLC - SEDOR® AI Queueing App for Panomera® S/W 8 Licence for the use of the app for determining the number of persons in defined zones and reporting when a defined limit is exceeded based on neural networks for a Panomera® S/W 8 system with VCA support

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SEDOR® AI Parking App (IPS 10000)	
008118	DLC - SEDOR® AI Parking App for Single Sensor Camera Licence for the use of the app for determining the number of vehicles in defined zones and reporting when a defined limit is exceeded based on neural networks for a Dallmeier network camera with VCA support
008119	DLC - SEDOR® AI Parking App for 3rd Party for Single Sensor Camera Licence for the use of the app for determining the number of vehicles in defined zones and reporting when a defined limit is exceeded based on neural networks for a 3rd party network camera
008120	DLC - SEDOR® AI Parking App for Panomera® S/W 4 Licence for the use of the app for determining the number of vehicles in defined zones and reporting when a defined limit is exceeded based on neural networks for a Panomera® S/W 4 system with VCA support
008121	DLC - SEDOR® AI Parking App for Panomera® S/W 8 Licence for the use of the app for determining the number of vehicles in defined zones and reporting when a defined limit is exceeded based on neural networks for a Panomera® S/W 8 system with VCA support

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See more.