DSTUDIO

Deep Learning Bundle License

SICK dStudio

ENGINEERING TOOLS

SICK
Sensor Intelligence.

DSTUDIO

Ordering information

Type	part no.
Deep Learning Bundle License	1126853

Other models and accessories ➜ www.sick.com/SICK_dStudio

Detailed technical data

Features

Description	The Deep Learning Bundle License® allows customers to use the deep learning functionality for object detection, image classification and anomaly detection commercially and without restriction. The target group for this product are customers who want to use deep learning functions with self-developed SensorApps.
Supported products	InspectorP series SIM2x00 Inspector83x Inspector85x SICK AppEngine
Task	Monitoring and controlling - Quality Monitoring and controlling - Condition Identifying - Classifying Identifying - Sorting
Task	Object recognition, anomaly detection and image classification using neural networks. The models are initially created with dStudio or taught in the sensor., Detection, localization and classification of objects, image classification and anomaly detection based on artificial neural networks.
Supported programming languages	You can develop your own SensorApps in SICK AppSpace
Supported image formats	bmp jpg jpeg png JSON
Language	English
Input data	Object recognition and image classification: Model created with dStudio, images to be analyzed Recognition of anomalies: Good and bad images to train the model.
Output data	Object detection: Detected object instances including position, size, object class and confidence score, number of object instances found Classify: recognized class, Detection of anomalies: Anomaly score for an overall evaluation, heatmap to localize anomalies
Documentation	SICK Support Portal

System requirements

Supported browsers	Google Chrome (version 80 or higher)
Programming language	You can develop your own SensorApps in SICK AppSpace
Installation tool	SICK AppManager (for installing ready-made apps), License Manager SensorApp (for activating the license on the device), SICK AppStudio (for developing your own SensorApps)

Additional software	A SICK AppSpace SensorApp which uses Deep Learning is also needed to use the functions activated by this license. This app can be created individually with SICK AppStudio. Alternatively, completed SensorApps can be used. You can find a current overview at dstudio.cloud.sick.com.
Firmware	The firmware of a product for which the Deep Learning functions are intended must use AppEngine framework version 3.0 or higher.

Licenses

Product type	Software
License type	Device license
License description	You receive a device-specific license.
Fee-based	Yes
Provision	The license is sold with a ticket that you receive in an e-mail. For use on a specific SICK device, you must activate the license at license.sick.com. Detailed instructions will be provided.

Classifications

ECLASS 12.0	13030490

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations –**www.sick.com**

SICK AG | Waldkirch | Germany | www.sick.com

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