



# Deep Learning Classification License

Deep Learning

ENGINEERING TOOLS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
Deep Learning Classification License	1614850

Other models and accessories → [www.sick.com/Deep\\_Learning](http://www.sick.com/Deep_Learning)

## Detailed technical data

### Features

<b>Description</b>	The Deep Learning Classification License makes it possible to productively use the Deep Learning functions contained in certain SICK products for classification of images. The Deep Learning API available in programmable SICK devices is activated for this purpose. A SICK AppSpace SensorApp is required to use the Deep Learning API. SensorApps such as the Intelligent Inspection SensorApp can be used here. The Deep Learning API can also be used when developing your own SICK AppSpace SensorApps.
<b>Supported products</b>	InspectorP series SIM1012 SIM1004 SIM2000 SIM2500 SIM4000 SICK AppEngine
<b>Technology</b>	Classification of images based on artificial neural networks
<b>Task</b>	Classification of images using a neural network previously created with the SICK product dStudio
<b>Range of services</b>	You receive a device-specific license.
<b>Provision</b>	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 <a href="http://license.sick.com">license.sick.com</a> . Detailed instructions will be provided.
<b>Supported programming languages</b>	You can develop your own SensorApps in SICK AppSpace
<b>Supported image formats</b>	bmp jpg jpeg png JSON
<b>Language</b>	English
<b>Input data</b>	File generated with dStudio which contains a neural network (to be purchased separately), an image to be classified
<b>Output data</b>	Classification result as was defined during generation of the neural network
<b>Documentation</b>	SICK Support Portal

### System requirements

<b>Supported browsers</b>	Google Chrome (version 80 or higher)
<b>Programming language</b>	You can develop your own SensorApps in SICK AppSpace
<b>Installation tool</b>	SICK AppManager (for installing ready-made apps), License Manager SensorApp (for activating the license on the device), SICK AppStudio (for developing your own SensorApps)
<b>Additional software</b>	A SICK AppSpace SensorApp which uses Deep Learning is also needed to use the functions activated by this license. This can be individually created with SICK AppStudio, or ready-made SensorApps can be used as an alternative. You can find a current overview at <a href="http://dstudio.cloud.sick.com">dstudio.cloud.sick.com</a>
<b>Provision</b>	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 <a href="http://license.sick.com">license.sick.com</a> . Detailed instructions will be provided.

Firmware	The firmware of a product for which the Deep Learning functions are intended must use Ap-pEngine version 2.12 or higher
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Classifications

eCl@ss 12.0	13030490
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## 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](http://www.sick.com)