

The versatility of Robot Vision



Selection of supported
manufacturers:



FANUC

ABB

KUKA

YASKAWA

MITSUBISHI
ELECTRIC

Kawasaki

NACHI



YAMAHA

...and many more!

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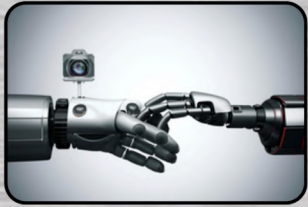
Robot Vision

Image processing software &
multi robot support



ROBOT VISION

Compatible with any robot without complex programming!



Robot Vision refers to the ability of robots to capture, interpret and react to visual information from their

environment. This technology plays a crucial role in various applications, from industrial manufacturing to autonomous robot navigation.

Basic principles

Robot Vision is based on advanced image processing techniques and algorithms that enable robots to extract visual data from images or videos. This includes the identification of objects, the recognition of shapes and the interpretation of depth information.

Deep Learning

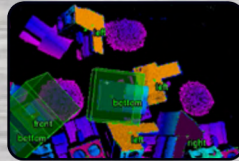
Supplied with AI, so even complex scenes can be precisely recognized and analyzed.

The base

Communication between robots and image processing forms the basis for robot vision. A universal robot communication tool makes it possible to transform the results of image processing into a "language" that the robot can understand and transmit them via various protocols, regardless of the robot type.



Possible applications



Bin Picking

- Recognition of the position and shape of each object
- Finding and picking out unsorted parts in a box

Palletizing/Depalletizing

- Reliable detection of objects through deep learning
- Fast, precise and autonomous palletizing and depalletizing



Object sorting

- Precise recognition of the position and shape of objects
- Sorting out incorrect or faulty objects

...and many more!

Hand-Eye-Calibration

In order to use robot vision, it is essential to be able to provide the robot with information generated by image processing as a starting point for its actions. For this purpose, it is a must to define a common coordinate system for the robot and the image processing system. This is known as hand-eye-calibration. With EyeVision, hand-eye-calibration is completed in just a few steps. A special function tool can be used to improve the absolute accuracy so that it is below the robot specification.



More information here: 

