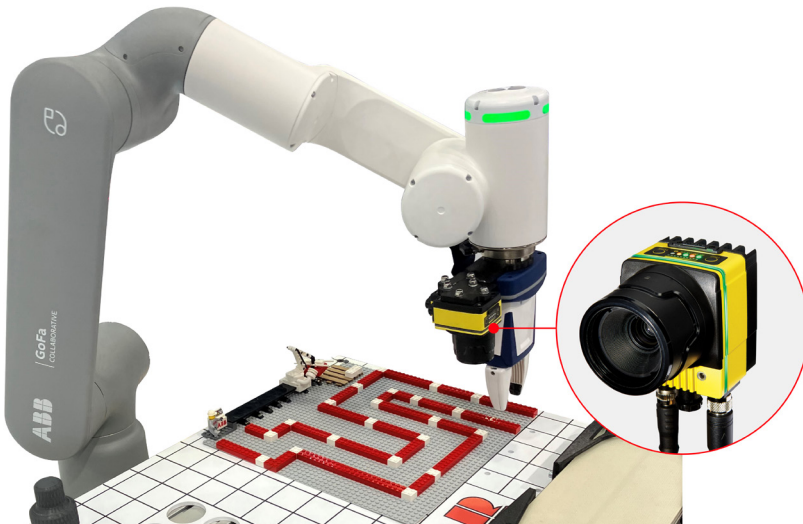


Integrated Vision

Vision-guided robotics for use by any industry



A powerful vision-guided robotics system is one that can face the numerous challenges posed by the factory floor head on by saving time and improving the flexibility of the robot. Integrated Vision offers a fast and easy way to ensure that end-user products meet the highest quality and standards.

Smart vision cameras

The ABB vision system represents a true revolution in machine vision featuring powerful vision tools; optics, faster image capture, capability to power and control a range of external lighting and enough input/output capacity for virtually any inspection scenario - all in a compact, industrial IP67 package that makes the system ideal for more applications than ever before.

Powerful vision tools

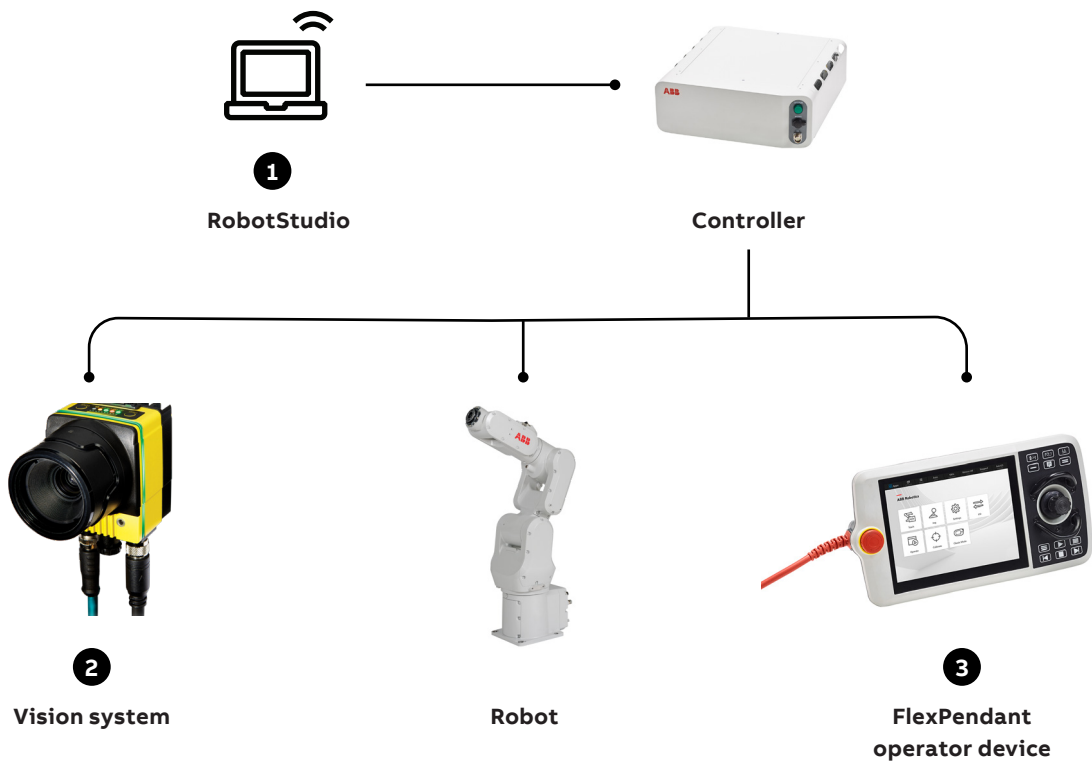
Regardless if you want to localize, inspect or trace products, ABB integrated Vision consist of +50 smart vision tools that reduce engineering times and can be deployed quickly. Both the advanced and first-time vision user will find Integrated Vision's extensive library of vision commands easy-to-use.

Vision fully integrated with the robot

There are a wide range of robotic vision-guided systems available on the market. None, however, offers the programming power of RobotStudio®'s comprehensive set of robot commands which seamlessly communicates with both robot and smart camera. Predefined and complete camera to robot tasks are by a single click installed in your program which saves the programmer substantial time and minimizes the risk of errors.

RobotStudio

ABB's widely used offline 3D programming tool. RobotStudio offers as standard ready-made components for easy programming of the robot and the vision system.



Integrated Vision process

1. RobotStudio is a graphical programming environment that allows robots and vision system to be programmed offline.
2. The Vision system to locate, inspect and guide parts. It perform tasks that are practically impossible for people to do reliably and consistently.
3. ABB's FlexPendant operator device with an intuitive graphical user interface that is fully customizable to the user's requirements.

Camera specification

Variants	Resolution
0.5 Medium Resolution	800 × 600
1.3 High Resolution	1280 × 1024
2 MegaPixel	1600 × 1200
5 MegaPixel	2448 × 2048