



Industrial cameras & OEM vision systems

From customised embedded cameras to turn-key vision systems

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Everyone Can Take a
Picture ...

Qtechnology designs and manufactures state-of-the-art embedded cameras running Linux. Integrated imaging and processing make our cameras ideal for a wide range of application-specific vision tasks.



Qtechnology Smart Cameras

We design and manufacture intelligent industrial cameras and turn-key vision systems, which can be tailored to fit our clients specific vision needs. Our cameras are applied in various applications within different industries across the world.

Our smart cameras are modular by nature and comprise a growing number of sensors, including CMOS, CCD, InGaAs, and microbolometer covering the NIR, SWIR, LWIR, visible, and x-ray spectra. All sensors can be customised with various lens interfaces, and be configured for hyperspectral imaging.

All Qtechnology cameras are processing images directly in the camera. This facilitates application development and eliminates the need for additional processing hardware and software. By connecting the camera to a keyboard and a screen you will thus have a full computer available.

Boost quality, productivity, efficiency and safety with Qtechnology's all-in-one smart camera solutions

End-use industries

Qtechnology cameras have been applied in various applications within a range of different industries. With thousands of cameras installed in industrial installations worldwide, we understand the requirements in terms of quality and reliability to keep production running 24/7/365.



Surveillance



Manufacturing



Agriculture



Automotive



Medical / Scientific



Robotics



Food



Applications & benefits of machine vision

- ✓ Increase efficiency in regards to speed, accuracy, and reliability
- ✓ Free human resources tied-up in tiring repetitive tasks
- ✓ Perform tasks that are impossible to do manually with the human eye

Customisation

Our smart cameras can be customised based on specific client needs and requirements. The cameras can be tailored in regards to sensors, optics, mechanics, environment, lighting configurations, software interfaces, protocols, pre-processing algorithms, pipelines, etc.

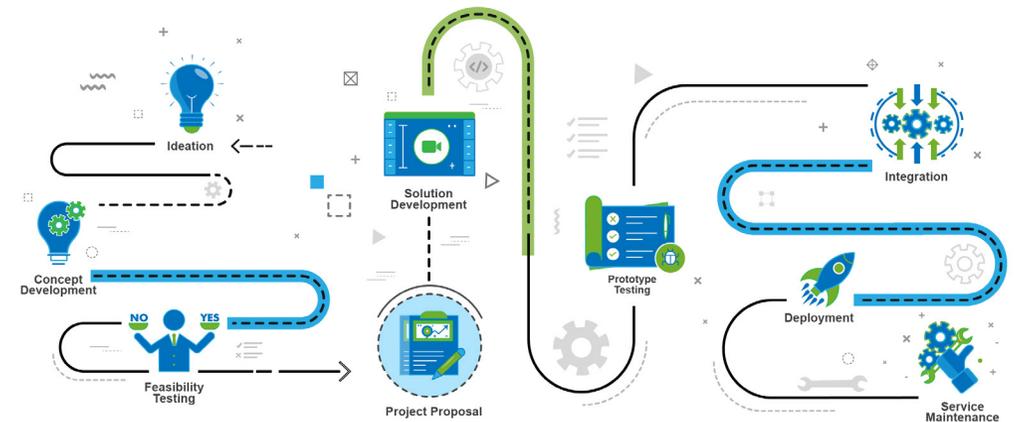
With in-house mechanics, electrical, software and science resources, we develop complete system designs. In some cases, we handle full projects from idea to a system implementation, while assisting in doing part of the development processes in other projects.

Unfamiliar With Vision Technology?

The development of machine vision solutions is a highly complex and technical task as a lot of factors have to be taken into account.

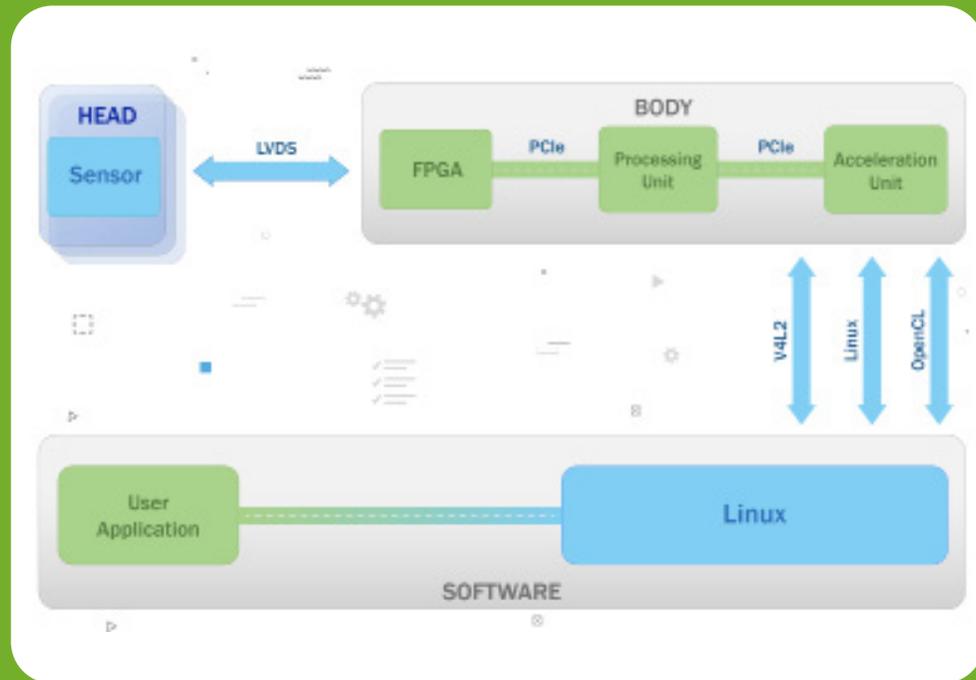
At Qtechnology, we can assist experienced as well as inexperienced clients throughout the development process. This simplifies the task and makes the benefits of machine vision available to everyone. When engaging a new client, we initially discuss the details of their vision challenges to determine core needs.

New projects can be started by developing non-committable feasibility tests. This way our clients' are also relieved of high start-up costs or R&D investments



Embedded camera architecture

Our vision systems are designed based on various Qtechnology camera platforms, depending on image processing, size and optical requirements.



We provide imaging technologies for various optical fields, both outside and inside the field of the electro-magnetic spectrum that is visually perceivable by the human eye. We also design vision systems with multispectral and hyperspectral imaging, which is of great benefit in a range of industrial and scientific vision applications.



Infrared Imaging (NIR, SWIR & LWIR)



Visible Light Imaging



Multi- & Hyperspectral Imaging



X-ray Imaging

Research Facilities

Qtechnology keeps a close relation to our parent company, Newtec A/S, with whom we are also sharing R&D facilities with state-of-the-art in-house laboratories. Our access to a broad range of in-house research facilities for optical, chemical and mechanical research, design and integration, enable us to control the entire design cycle in the development of a running vision system.



Open Source Ecosystem

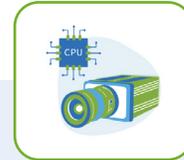
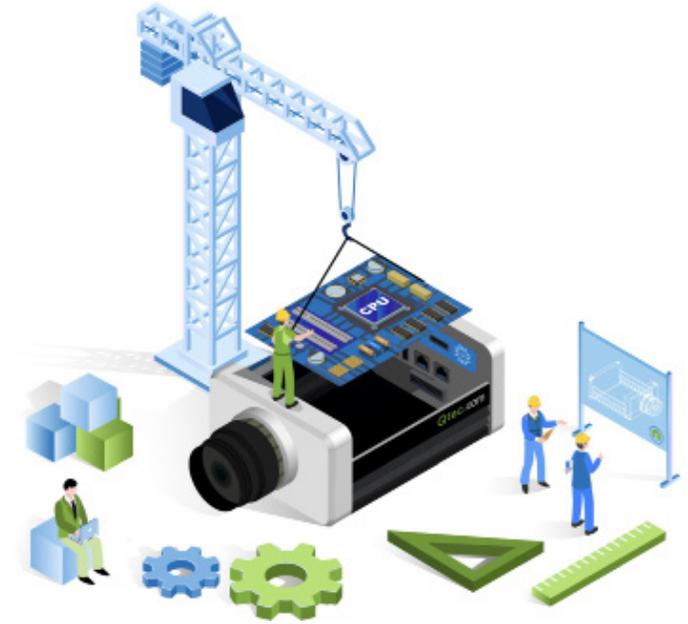
Qtechnology is a big player in the Open Source Ecosystem with contributions to the full stack. Our cameras run the latest upstream software, tailored to their performance. The software solutions are often entirely based on open-source libraries. However, the software can also be based on proprietary libraries or closed ecosystems, if required.



Exchangeable Camera Heads (Sensors)

Qtechnology designs industrial cameras with exchangeable camera heads ranging from CMOS, CCD, InGaAs, to microbolometer sensors. All camera heads can be utilised on different camera platforms, facilitating tests using various camera heads - e.g. in scientific research projects.

It also enables the replacement of a camera body without having to replace the camera head, in case the camera hardware becomes obsolete over time



CPU embedded camera

Our portfolio of modular camera platforms with integrated CPU, GPU, and FPGA processing, eliminates the need for external image processing hardware. This makes our embedded camera technology ideal for a range of vision solutions

...Qtechnology Provides

THE
FULL
PICTURE

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