

APPLICATION EXAMPLE



LOGISTICS & ITS (Intelligent Transportation Systems)

One of the symbols of continually increasing international trade is the container. In order to cope with the increased traffic at container terminals, it is necessary to increase the automation of container handling.

Automated systems require each and every container to be unambiguously identifiable. Metaphorically speaking, every container needs a number plate. This is the purpose of the labeling, as specified in ISO 6346.

Industrial cameras record these labels at four strategic points in the container terminal: the ship-to-shore gantry cranes, the stockyard, the train entrance and the truck entrance.

This approach allows the handling of containers to be highly auto-

mated throughout the duration of their transit through the container terminal. Consequently, the terminal's capacity can be increased and costly expansions can be avoided.

Security is another key aspect: Containers may contain „undesirable“ goods. The complete registration of containers makes it almost impossible to avoid customs and security checks.

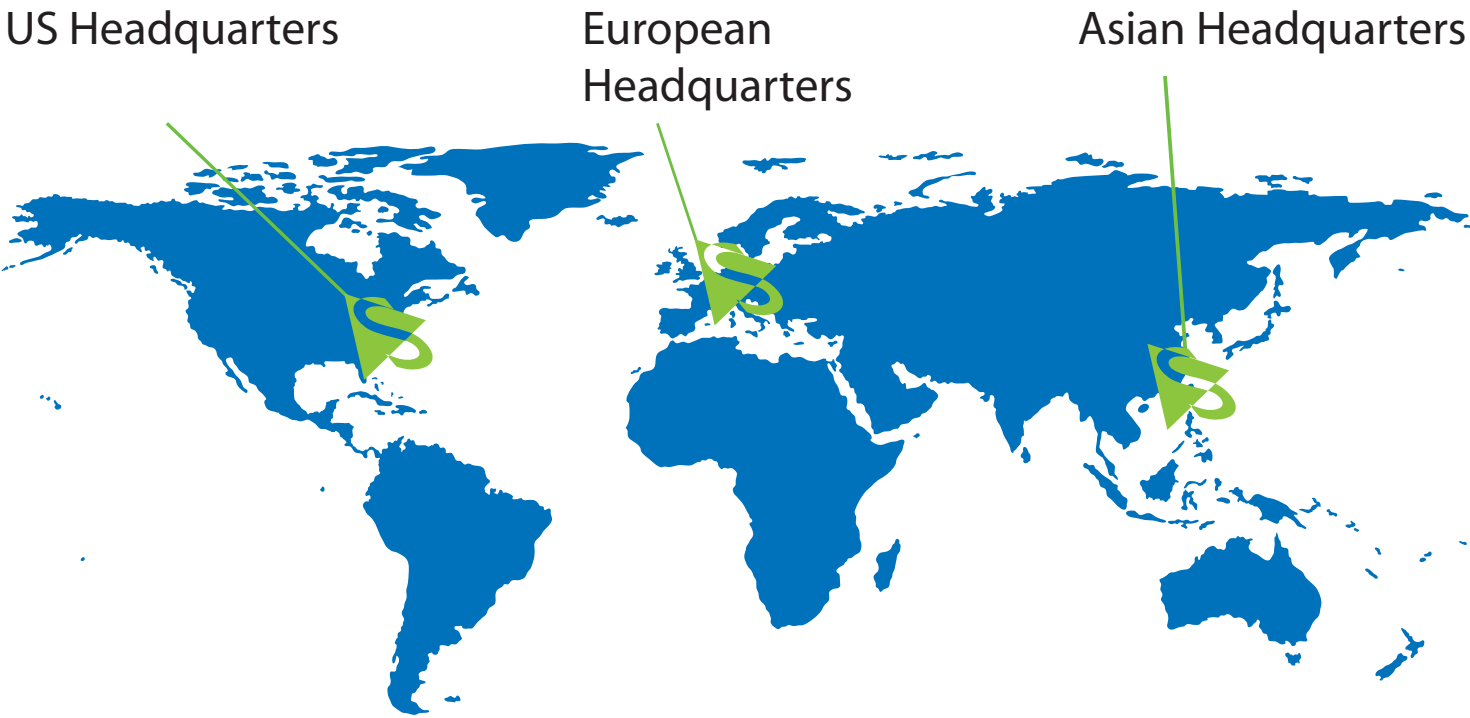
On the other hand, containers that are members of the C-TPAT program (Container Trade

Partnership Treaty) can avoid the time-consuming security checks.

OTHER APPLICATION EXAMPLES

- + Barcode Recognition
- + Completeness Check
- + Defect Detection
- + Measurement
- + Part Detection
- + Robot Guidance
- + Surface Inspection

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All weights and dimensions are approximate. Unless otherwise specified the lenses shown in the context of cameras are not shipped with these cameras.

THE IMAGING SOURCE  
TECHNOLOGY BASED ON STANDARDS







INDUSTRIAL CAMERAS FOR YOUR APPLICATION

The Imaging Source is one of the leading manufacturers of industrial cameras for production automation, quality assurance, logistics, medicine, science and security.

After natural language, the use of images is the second most important way of communicating for human beings. The area of image processing is correspondingly wide.

The hardware and software components that are manufactured by The Imaging Source serve to acquire, visualize, archive and analyze images. The most important areas of deployment are in industry, medicine, science and security.

In these areas in particular, image processing is currently in a state of transition that is characterized by the following three aspects:

DECREASING PRICES

In industry, medicine and science, image progressing has traditionally been seen as expensive. It is the goal of The Imaging Source to change this perception. Our weapon to achieve this goal is called „standardization“: Only by standardizing is it possible to achieve low prices, simplicity and longevity.

DECREASING INTEGRATION COSTS

The development of our hardware components is driven by fifteen years of developing modern software

components. This intimate interplay guarantees that our components work in perfect harmony and are thus a key element in our desire to lower integration costs.

NEW MARKETS

Low prices and ease of use of our components enable our customers to build completely new products. Typically, such products – being a marriage of quality and low prices – are predestined to deploy low cost components.



MILESTONES

- + 2010 Introduction of a family of very compact USB CMOS cameras.
  - + 2009 Introduction of a family of GigE CCD cameras.
  - + 2007 Introduction of a family of USB CCD cameras.
  - + 2007 Foundation of the Asian/Pacific subsidiary in Taipei, Taiwan.
  - + 2006 Introduction of FireWire zoom cameras with motorized lens (software controlled).
  - + 2005 Introduction of a new generation of FireWire cameras.
  - + 2002 Introduction of a family of low-cost FireWire cameras.
  - + 2001 Introduction of the Video-to-FireWire converter DFG/1394-1e.
  - + 1999 Foundation of the US subsidiary in Charlotte, North Carolina.
  - + 1996 Introduction of the first hardware component, manufactured by The Imaging Source, the low-cost frame grabber DFG/LC1.
  - + 1990 Founded as a spin-off from the University of Bremen, Germany.
- The Imaging Source has its roots at one of the world's first faculties in the field of Digital Image Processing.



SUPPORT: ALWAYS THERE FOR YOU

What really separates The Imaging Source from its competitors is the unsurpassed customer service and technical support we provide for our products.

Industrial cameras consist of two basic components – hardware and software.

We guarantee fast and efficient support for both components through our highly skilled support representatives and expeart product developers.

Not only will we provide support regarding technical issues, but we will also work to provide assistance with software implementation questions.

EASY SOFTWARE INTEGRATION

All The Imaging Source cameras, converters and frame grabbers are shipped with the SDK IC Imaging Control®.

With this SDK, it is easy for programmers to integrate these devices into their application.

The source code of numerous programming examples helps programmers to get started quickly.



[www.imagingcontrol.com](http://www.imagingcontrol.com)