

iNSPO

 **COMPUTER VISION**



THE POWER OF SIGHT
FROM BASLER

**HIGH PERFORMANCE
INDUSTRIAL COMPUTER**
FROM NEOUSYS

**VISION AND INTELLIGENCE
FOR GLOBAL ROBOTICS**
FROM PHOTONEO

EXPANDING IN DENMARK
**STRENGTHENING
OUR MARKET PRESENCE**



Imaging & Vision changes name to **COMPUTER VISION**

New technology requires new names. After many years of development and innovation, it is time for us to rename our product area. What was previously known as 'Imaging & Vision' will now be renamed to 'Computer Vision' to reflect today's needs and our focus on innovation and progress. With the latest technology and our commitment to development, we will continue to offer our customers the most innovative solutions in Computer Vision. We look forward to being part of this development and helping you take your business to the next level.



COMPUTER VISION

OEM Automatic has many years of experience in products for imaging and vision applications. With us, you will find all components needed for your vision system; factory automation, robotics, medical or individual components to embed into your custom project. Our unique range combined with high-quality support and product knowledge makes us the obvious choice when selecting components for your vision project.

Thanks to our unique product range, we can offer the most suitable and cost-effective solution for each application. On top of that, together with OEM Automatics complete portfolio, we can offer one of the automation markets broadest product range. We operate in Sweden, Norway, Denmark and Iceland and through sister companies in UK and Finland.

LEADING MANUFACTURERS

The broad and unique product range is made possible by our partnering manufacturers that are specialists and market leaders in their respective field. By being our partners' local organization with full responsibility for sales, we can ensure that you get the benefits of a local distributor but at the same time get access to world leading technology and products.



TORBJÖRN FJORDE
Business Area Manager



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Kim Langkjaer

Torstein Niclasen

Expanding in Denmark STRENGTHENING OUR MARKET PRESENCE

We are pleased to present two members in our team, Kim and Torstein, both working as business engineers. Kim is new to the company, whilst Torstein has been a valuable member of OEM Automatic for a long period. This expansion from a solo sales force in Denmark, to a dynamic duo, signifies our commitment to strengthening our presence in the Danish market.

Kim, with a background as a business engineer, has a history of working with security solutions and industrial automation projects. His native Danish background and understanding of the Danish market made him a natural fit for our team. Kim's dedication to staying at the forefront of technology aligns perfectly with our vision of delivering cutting-edge solutions for our customers.

Torstein, born and raised in Odense, Denmark, brings a valuable cultural

perspective to our team. His insights into Danish mentality, business expectations, and practices provide us with an advantage in expanding our presence in Denmark. Torstein's enthusiasm for the Danish market is driven by the exciting opportunities it offers, particularly in the realm of high-end vision solutions and innovation.

Both Kim and Torstein share a common enthusiasm for our customers and the opportunities they bring to shape high-end vision solutions. Their combined

experience and ability to foster relationships with our new market-leading manufacturers, such as Zebra and Optris, will boost our success in Denmark.

Beyond their professional achievements, Kim and Torstein are skilled at balancing work and personal life, each drawing inspiration from their families. Their ability to connect with different cultures and customs reflects their adaptability and open-mindedness, qualities that enrich their roles as business engineers.



KIM

WELCOME TO OUR TEAM! COULD YOU TELL US ABOUT YOUR BACKGROUND AS A BUSINESS ENGINEER?

Thank you. I've previously worked within the security segment and have worked with a blend of security solutions and industrial automation projects.

WHAT MOTIVATED YOU TO WANT TO WORK WITH US, ESPECIALLY WITHIN THE DANISH MARKET?

I was very motivated to be in a company that works with the latest technologies and employs them to cutting-edge projects, and staying within the Danish market seems natural for me, since I'm a native Dane.

YOU HAVE PERSONAL CONNECTIONS TO DENMARK. CAN YOU TELL US ABOUT YOUR TIES AND WHAT IT MEANS TO YOU TO WORK WITHIN THE DANISH MARKET?

I was born and raised in the Southern isles of Denmark in Nykøbing Falster. Now living in

Malmö, working with the Danish market is a nice way to still have a day-to-day connection with Denmark and also speak Danish with people other than my immediate family.

CAN YOU SHARE AN ACHIEVEMENT OUTSIDE OF YOUR PROFESSIONAL LIFE THAT YOU ARE PROUD OF?

My proudest achievement is my marriage and the family we've created, as well as how we've managed to move through different countries. I've learned a lot about how to approach various cultures and customs, and gaining insights into my own lifestyle that I probably didn't have before.

TORSTEIN

YOU ALSO HAVE CONNECTIONS TO DENMARK. WHERE IN DENMARK WERE YOU BORN AND RAISED?

I was born and raised in Odense and lived there till I was 25 years old.

HOW DO YOU BELIEVE YOUR BACKGROUND CAN BE BENEFICIAL AS YOU WORK ON EXPANDING OUR PRESENCE IN THE DANISH MARKET?

Even though Denmark and Sweden are neighbors there are many differences in mentality, how we act and express ourselves, what we expect from a business partner and in the way we do business. Being Danish and sharing the same mentality is definitely an advantage.

WHAT MAKES THE DANISH MARKET EXCITING?

Our fantastic customers! Along with them, we have the opportunity to participate in and

influence the development of high-end vision solutions. Also, the Danish market is a very innovative one, getting the chance to be a part of innovations that improve our society is a big part of my motivation as well as the wide variety of customers, industries and technologies, which keeps it interesting.

HOW CAN YOUR EXPERIENCE HELP US ESTABLISH SUCCESSFUL PARTNERSHIPS IN THE DANISH MARKET?

My experience enables me to identify potential new partners and assess which technologies could be relevant for them. We are already establishing new relationships and developing existing ones through our new manufacturers Zebra and Optris. Both can make a difference in various applications across industries.

BASLER GIVES TECHNOLOGY THE POWER OF SIGHT

hardware and software from a single source

With more than three decades of experience, Basler create vision solutions that make life easier, processes smoother, and applications more efficient. Their wide range of products helps you to create your ideal vision system quickly and easily. All products are compatible and extensively tested. Choose from the variety of cameras and components that are tailored for your needs!

FAST AND EASY IMAGE ACQUISITION

Establishing a seamless and stable connection between your vision applications and Basler cameras and hardware components requires the right software. The Basler pylon Software Suite consists of reliable, certified drivers for various camera interfaces, a powerful and easy programming interface, and a comprehensive set of tools for camera and system set-up. Thanks to the pylon vTools, you can develop complete machine vision, medical and other applications with just a few lines of code.



THE ELEMENTS OF THE PYLON SOFTWARE SUITE

pylon consists of several components: the pylon Viewer for evaluation and setup of cameras, SDKs for integration into application software, and drivers for reliable connectivity.

- ✓ Simple camera setup: Powerful tools for image acquisition
- ✓ Certified drivers: Reliable performance for Windows, Linux, macOS and Android
- ✓ Basler camera features: Direct access to camera features for the best images without additional processor load
- ✓ Real time performance: Stable real-time image capture due to excellent performance in terms of latency and jitter
- ✓ Quick to learn: Instant productivity thanks to easy-to-learn pylon APIs and context-sensitive developer documentation
- ✓ Time savings: Studies show that developers spend only 20% or less of their time on these tasks, as compared to other more time-consuming APIs
- ✓ Lean code and fewer sources of error: Applications developed with pylon APIs require only about 40% of the program code for the same functionality. Fast troubleshooting due to reduced program scope and simple application development



Basler pylon vTools

Check out the products here!



ACE

With more than 130 models, the ace series is the largest camera series on the industrial image processing market.

The cameras are available with various resolutions, speeds, interfaces and sensors from leading manufacturers. High quality and performance in small sugarcube size. This combination makes the ace fitting in various applications, with thousands of satisfied customers.

All cameras within the ace U and ace L product family come with Basler's powerful in-camera image optimization PGI that improves your images at the full speed of your camera.



ACE 2

The second generation of the popular ace camera series still holds the small format and offers the latest sensors from Sony and Gpixel. In addition to traditional GigE and USB 3.0 interfaces, the ace 2 is available with 5GigE interface.

This series is divided into two product lines: The ace 2 Basic stands out by Basler's proven reliability with an extensive computer vision feature set for standard machine vision applications. The ace 2 PRO offers all the same benefits plus PGI feature set plus new, unique Beyond features for maximum performance. The cameras boast a more powerful FPGA that not only allows more advanced image optimization (PGI), but also lossless compression and more dynamic binning.



BLAZE

The blaze Time-of-Flight camera offers precise 3D imaging in real time thanks to Sony's Depth-Sense™ sensor technology and onboard depth image processing. The Basler blaze offers VGA resolution, high precision and accuracy, plus powerful features at an attractive price.



BOOST

These are our true powerhouse. They have the highest resolution, the fastest data transfer and largest sensors. With CoaXPress 2.0, with up to 4 channels you can transfer huge amounts of data for the most challenging applications, with cables up to 30 m.



DART

This is our smallest platform. Although it consists of a single board, it is packed with features that produce impressive image quality. If you need a lean camera solution with a small size, low weight and low power consumption consider the dart series.

HIGH PERFORMANCE INDUSTRIAL COMPUTER

Neosys industrial computers feature high-performance processors with low power consumption components with patented intake and fanless or optional fanned heat dissipation design. They are capable of functioning with 100% CPU load while operating in wide temperature range ranging from -25°C to 70°C for various industrial applications. In addition, Neosys rugged embedded industrial computers feature flexible expansion modules allowing you to add-on industrial-specific I/O functions for your solution needs.

SEMIL

Neosys SEMILs offer IP67 waterproof capability and are fanless GPU computers. They are a class above industrial embedded systems and are designed to thrive in extremely volatile conditions while maintaining COTS availability. SEMILs also feature reinforced chassis, M12 connectivity, SuperCap UPS and patented technology to ensure non-throttling GPU performance up to 62°C ambient temperature.

- ✓ CPU/GPU: i3-Xeon E 22778GE , RTX A2000/ Tesla T4/ Quadro P2200
- ✓ Ethernet: 1x 10 GbE M12, 7x PoE+ M12
- ✓ IP rating: IP67
- ✓ SSD: 2x Internal 2.5"SSD, 1x NVMe, 2x mSATA
- ✓ RAM: up to 64GB DDR4
- ✓ Operating Temperature: -25°C ~ 70°C



INDUSTRIAL COMPUTERS, RUGGED EMBEDDED PC

Neosys industrial computers feature high-performance processors with low power consumption components with patented intake and fanless or optional fanned heat dissipation design. They are capable of functioning with 100% CPU load while operating in wide temperature range ranging from -25°C to 70°C for various industrial applications. In addition, Neosys rugged embedded industrial computers feature flexible expansion modules allowing you to add-on industrial-specific I/O functions for your solution needs.

- ✓ CPU: 13th Gen Intel i3-i9
- ✓ Ethernet: 6x 2.5G Ethernet (4x PoE)
- ✓ PCIe: up to 2x PCIe x16 slots
- ✓ SSD: 2x Internal 2.5"SSD, 1x NVMe
- ✓ RAM: up to 64GB DDR5
- ✓ Operating Temperature: -25°C ~ 70°C



AI

Check out the products here!



IN-VEHICLE FANLESS COMPUTER

Neosys' VTC series are rugged expandable in-vehicle computers designed to withstand harsh operation environments on trucks, buses and trains. VTC series have patented heat dissipation, shock and vibration resistant design, making them extra stable during mobile operations. Featuring EN 50155, E-Mark certification, and multiple I/O ports for expandability, they meet the demands of various in-vehicle and mass transportation applications.

- ✓ CPU: i3-i9-13900E
- ✓ Ethernet: 1x 2,5G Ethernet, 5x GigE M12 (4x POE)
- ✓ CAN Bus: 1x isolated CAN 2.0 port
- ✓ SSD: 2x Internal 2.5"SSD, 1x NVMe
- ✓ RAM: up to 64GB DDR5
- ✓ Ignition Control: Built-in ignition power control
- ✓ Operating Temperature: -40°C ~ 70°C



NVIDIA – A TURNKEY PLATFORM

The Jetson Xavier family of modules features the world's first computers designed specifically for autonomous machines. These modules are ideal for handling visual odometry, sensor fusion, localization and mapping, obstacle detection, and path-planning algorithms that are critical to next-generation robots. The latest version is called Jetson AGX Orin and is a system-on-module (SOM) that have a Ampere GPU with up to 2048 CUDA cores, 64 Tensor cores, 2x NVDLA 2.0 Engines. That offers a total of 275 sparse TOPS (INT8). With Orin AGX you can have up to twenty-two 1080P video streams simultaneously.

- ✓ CPU/GPU: Jetson AGX Orin
- ✓ Ethernet: 6x RJ45 (4 PoE) or 6x M12
- ✓ CAN bus: 2x CAN 2.0 port
- ✓ SSD: 2x front-accessible 2.5"SSD, 1x NVMe
- ✓ RAM: 32/64GB LPDDR5
- ✓ Operating Temperature: -25°C ~ 70°C



VISION AND INTELLIGENCE FOR GLOBAL ROBOTICS

Photoneo is a leading provider of industrial 3D vision, robotic intelligence software, and AI-powered automation solutions. Since its foundation in 2013, the company's mission has been to give vision and intelligence to robots all over the world to enable them to see and understand. The goal is to automate monotonous and risky tasks by deploying vision-guided robots.

Based on its patented 3D sensing technology, Photoneo developed the world's highest-resolution and highest-accuracy color 3D camera, opening up completely new possibilities for automation. In combination with robust, machine learning-based robotic intelligence software, Photoneo helps companies in various sectors, including the automotive, logistics, e-commerce, grocery, and the medical industry to improve the performance and efficiency of their manufacturing, fulfillment, assembly, and other types of processes.



Check out the products here!



SENSORS

MOTIONCAM-3D COLOR

MotionCam-3D Color is a novel area-scan 3D camera for colorful 3D scanning of static as well as dynamic scenes, providing exceptional resolution and accuracy without motion artifacts.

The camera brings a game-changing combination of three key machine vision properties - 3D data, motion, and color. The fusion of these elements in a single device is truly unique and makes the camera the only device on the market that enables real-time colorful 3D point cloud creation of moving as well as static scenes in high resolution and accuracy.

Similar to its sister device MotionCam-3D, MotionCam-3D Color is powered by Photoneo's patented Parallel Structured Light technology. The camera opens up a whole new range of application possibilities, including demanding AI applications.

In combination with Photoneo 3D Instant Meshing software, MotionCam-3D Color can be used for the creation of accurate and highly detailed 3D models of static as well as dynamic scenes in a matter of seconds, providing 3D shape, texture as well as color. It can create 3D models of even very large objects moving randomly, such as cars or shipping containers.

PHOXI 3D SCANNER

The PhoXi 3D Scanner is a structured-light 3D scanner for scanning static scenes, providing supreme resolution and submillimeter accuracy. The robustness of the scanner ensures superior quality of scans even in harsh industrial environments thanks to IP65 protection and an advanced thermal calibration model.

All PhoXi 3D Scanners shipped after 1 June 2023 are equipped with the 3rd generation of Photoneo's Ambient Light Suppression technology, enabling you to scan under direct sunlight, in conditions with changing lighting, and even very high dynamic ranges with dark and bright areas in a single scene.

The PhoXi family consists of 5 different models, covering a scanning range from 15 cm up to 4 meters, which makes it your go-to scanner for all possible application scenarios and project needs.



ROBOT VISION

BIN PICKING STUDIO

Bin Picking Studio is a versatile robotic intelligence software for advanced bin picking of randomly oriented parts from a container. It combines powerful 3D vision hardware represented by PhoXi Scanners and intelligent software for reliable bin picking with path planning and collision avoidance. It supports a large database of robot models.

LOCATOR STUDIO

Locator Studio is a unique tool for fast, easy, and reliable 3D picking of oriented and semi-oriented parts from collision-free environments such as trays, conveyor belts, or racks. It offers an intuitive UX/UI design, high compatibility with any model of industrial robot or manipulator, and easy plug & play installation.



FIXED INDUSTRIAL SCANNER OR MACHINE VISION CAMERA?

With ever-changing production goals and tighter timelines, your customers need easy-to-use solutions that elevate quality and drive production performance, now and into the future. Inspired by the demands of floor operations and built with field-proven innovation, Zebra's fixed industrial scanning and machine vision solutions are designed to eliminate errors and increase performance. Zebra makes it easy for you to set up, deploy and run all devices on a single platform and keep pace with the demands of today's industrial manufacturing and logistics market. Zebra's industrial automation solutions are differentiated by a single unified software platform—Zebra Aurora™—to satisfy the growing need for high-quality vision inspection as well as track and trace solutions.

FS10

Zebra's FS10 Fixed Industrial Scanner delivers plug-and-play scanning needed to track products as they move through manufacturing production lines, warehouses and distribution centers. The FS10 deploys in minutes—just plug it into the USB port of a workstation, laptop, tablet or any other host device and start scanning. Zebra Aurora™ makes it easy to set up, deploy and run. And it's upgradeable with new symbologies and scanning speeds with the simple purchase of a software license.

- ✓ Resolution: 1 Megapixel
- ✓ Interface: USB
- ✓ Framerate: up to 60 fps
- ✓ Lens: Liquid Lens
- ✓ IP-rating: IP65 & IP67

VS20/FS20

The VS and FS scanner are the smallest Zebra camera/scanners with Power over Ethernet. The VS20 easily fits wherever basic machine vision is required and the FS20 gives you a small high speed barcode scanner. With the highly intuitive Zebra Aurora software platform, it is extremely easy to setup, deploy and run. Multiple connectivity options enable easy integration into a PLC or host network. Power-over-Ethernet simplifies deployment. Customers can upgrade to advanced machine vision tools with a simple software license.

- ✓ Resolution: 1 Megapixel
- ✓ Interface: GigE (PoE)
- ✓ Framerate: up to 60 fps
- ✓ Lens: Liquid Lens
- ✓ IP-rating: IP65 & IP67

VS40/FS40

The FS40 delivers a broad set of capabilities required to meet all your barcode capture requirements. Adding vision tools to the camera and you get the VS40, perfect to meet complex image capture requirements all in a single package. Tailor the device to your specific needs with flexible options, from decode range, illumination and connectivity to power and more. Add advanced capabilities including machine vision with simple software upgrades. The Zebra Aurora software delivers the groundbreaking simplicity required to make the FS and VS40 extremely easy to setup, deploy and run.



- ✓ Resolution: 5 & 2.3 Megapixel
- ✓ Interface: GigE (PoE), USB
- ✓ Framerate: up to 60 fps
- ✓ Lens: Liquid Lens
- ✓ IP-rating: IP65 & IP67

VS70/FS70

The FS70 gives the customer a broad range of customizations to achieve flawless track and trace in any application. Choose from four image sensors and a world of C-mount external lens and lighting options. Add advanced machine vision tools with a simple software upgrade to upgrade your FS70 to a VS70. Zebra Aurora software platform make the both Zebras VS and FS scanners extremely easy to setup, deploy and run.



- ✓ Resolution : 2.3 & 5.1 Megapixel
- ✓ Pixelsize: 3.0 & 2.2 μ m
- ✓ Framerate: up to 60 fps
- ✓ Lens Mount: C-mount
- ✓ IP-rating: IP65 & IP67

Application images



Check out the products here!

OUR RANGE

Product area Computer Vision has many years of experience in products for image and vision applications. With us, you will find all the components needed for your vision system - from optics and cameras for both 2D and 3D to industrial computers and software and everything in between.



CAMERAS



3D PRODUCTS



INDUSTRIAL COMPUTERS



INTERFACE SOLUTIONS



SOFTWARE



ACCESSORIES

Lenses, LED Lighting, Filter, Enclosures

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SVERIGE
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