

Media kit 2022

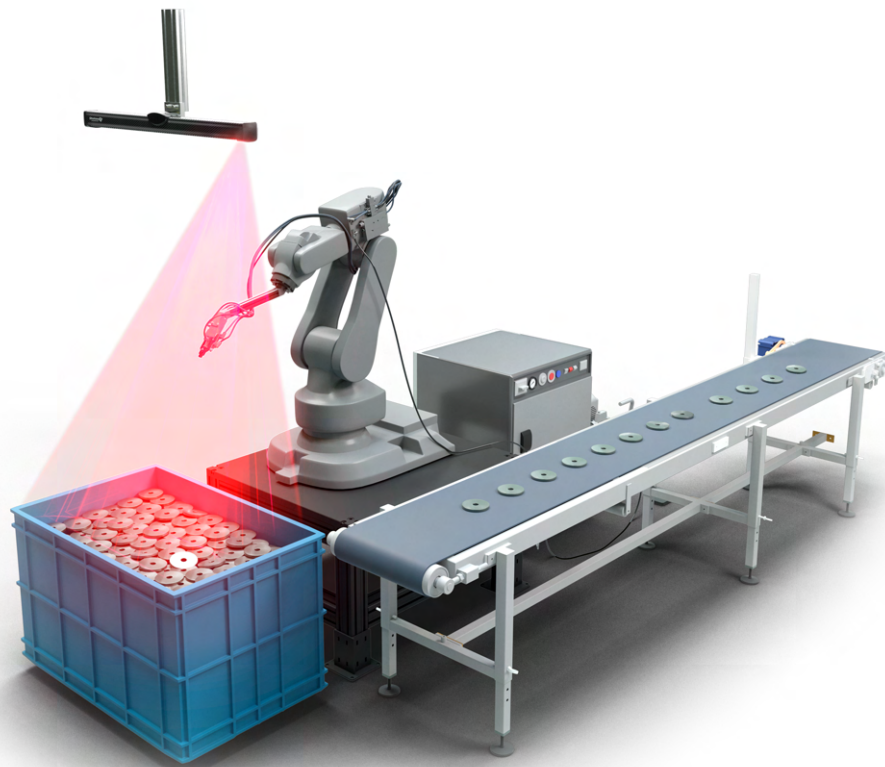




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About us

Photoneo is a leading developer of robotic vision and AI-powered automation solutions for industrial applications. It was founded in 2013 with the mission to give robots vision and intelligence so that they would be able to understand their environments. The company's main goal is to automate monotonous and risky tasks by employing vision-guided robots.



Mission :

Give vision and intelligence to robots all over the world so that they can see and understand it.

Vision :

Drive smart automation solutions and shape technological future for next generations.

Headquarters :

Bratislava, Slovakia

Offices :

Boston, USA

Shanghai, China

Founders



Ján Žižka

CEO of Photoneo Group / zizka@photoneo.com

Ján was born with pliers and battery in his hands. Then he learned math and coding, got his PhD and ended up at MIT playing with cameras, optics, and algorithms. When he realized that he did not need to sleep, he co-founded the 3D vision company Photoneo with 3 priorities in mind: Automate, automate, automate. And one more - to have fun



Tomáš Kovačovský

CTO of Photoneo Group / kovacovsky@photoneo.com

Tomáš is an expert in the field of computer vision and computational photography. During and following his university studies, he found his niche in 3D scanning, which has been his passion since. Tomáš has co-developed the revolutionary "Parallel Structured Light" technology that powers the Photoneo 3D camera MotionCam-3D. In 2017 he was included by Forbes' 30 UNDER 30 EUROPE among the 30 brightest young entrepreneurs, innovators, and game changers in the Industry segment.



Michal Malý

Director of AI of Photoneo Group / maly@photoneo.com

Michal received his PhD in the field of Computer Science, Artificial Intelligence, at FMFI UK in 2013. He is an expert in the construction of rational agents based on reinforcement learning. He also worked in the area of computer security and published an innovative solution for secure distributed computing. His vision is to improve computer understanding of 3D environment and enhance the comprehension of real-world objects.



Branislav Puliš

CRO of Photoneo Group / pulis@photoneo.com

Branislav is responsible for the international sales & business development at Photoneo. Together with his team, he managed to create an intricate network of distributors and establish direct sales offices in DACH, China, and the USA. He is a huge fan of innovative technologies and currently, he is an advocate of modern automation solutions in logistics.

Portfolio

Products

Sensors

MotionCam-3D

The world's highest resolution & highest accuracy area-scan 3D camera for capturing scenes in motion that eliminates the trade-off between quality and speed.



MotionCam-3D Color

The only area-scan 3D camera that combines 3D geometry, motion, and color for real-time colorful 3D point cloud creation of moving scenes in high quality.



PhoXi 3D Scanner

The PhoXi family of industrial-grade 3D scanners for static scenes satisfies the needs of every industrial application.



Software

Bin Picking Studio

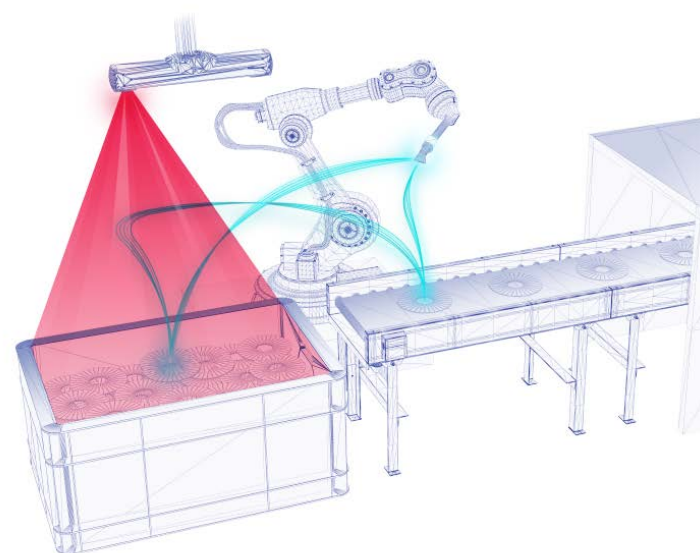
The ultimate robotic intelligence tool for every integrator.

PhoXi 3D Meshing

A state-of-the-art solution for 3D model creation of any type of object.

Locator Studio

3D picking tool for collision-free environments that enables you to pick structured and semi-oriented parts at an exceptionally fast speed.



Portfolio

Automated warehouse & logistics

Singulation & sorting

AI-powered singulation & sorting of objects of any shape, size, or material, including those with deformed surfaces that change under the slightest pressure.



Depalletization

The next revolution in logistics - Photoneo's AI-powered Universal Depalletizer brings warehouse effectiveness to the next level.

Automated piece picking

AI-powered picking of parts of various shapes, sizes, colors, materials, and orientations without CAD models.

Smart factory

Packaging

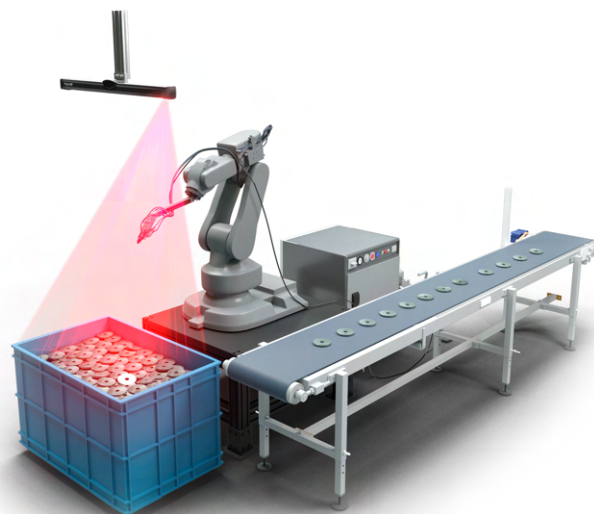
Smart automation solutions that reduce time and costs necessary to prepare goods for shipping to customers.

Machine loading

The most advanced 3D vision-guided approach that solves the loading and unloading of objects into material processing stations.

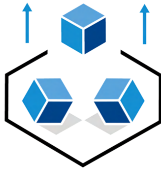
Bin picking

The ultimate solutions to the fundamental challenge of vision-guided robotics powered by best-in-class 3D vision and robotic intelligence systems.

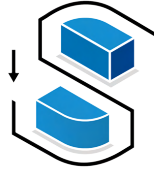


Applications

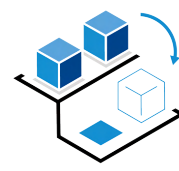
Object manipulation & robot guidance



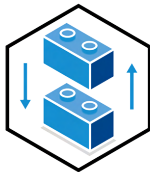
Bin picking



Trajectory correction



Pick & place



Assembly



Palletizing & depalletizing



Packaging

Inspection



Completeness check

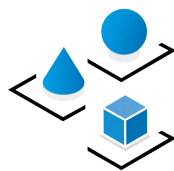


Vision-guided robot testing



Measurements

Recognition



Sorting



3D OCR

Engineering



3D modelling



Reverse engineering

Use cases

Dimensioning & measurement



Overhead conveyors



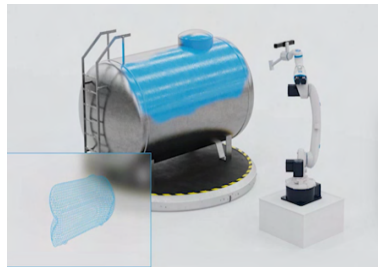
Hand Eye object manipulation



Scanning of large objects



3D model creation of large objects



Picking of moving objects



Assembly in motion



Moving objects inspection



Business model & value proposition

Business Model :

Photoneo offers its solutions and services through direct sales, distributors, integrators, and partners.

Partners :

Photoneo cooperates with over 40 partners and distributors around the world as well as with many universities.



Value proposition :

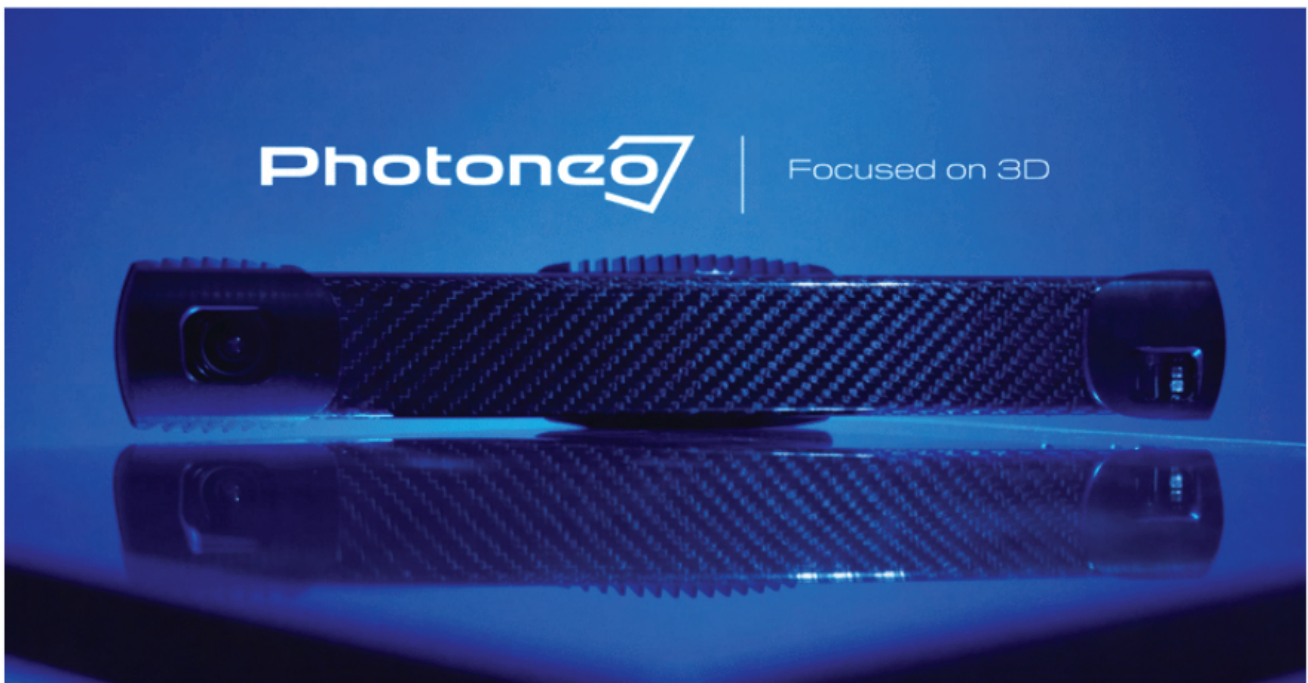
- Photoneo's revolutionary Parallel Structured Light technology is the only 3D sensing approach that enables a high-quality area scanning of objects in motion. It has been recognized with many prestigious awards, including the SupplyTech Breakthrough Award 2022, RBR50 Robotics Innovation Award 2021, inVision Top innovation 2021, IERA Award 2020, Vision Systems Design Innovators Platinum Award 2019, inVision Top Innovation 2019, and Vision Award 2018
- Photoneo provides regular training on its products and solutions including specialized 1-on-1 sessions with Photoneo's engineering team and consultancies with the company's sales team. Photoneo also produces webinars and blogs providing information on the latest developments in the automation field
- Photoneo's 3D sensing solutions help companies improve their logistics, manufacturing, and other types of industrial processes by increasing productivity and efficiency and reducing costs and the risk of worker injuries.
- The industrial-grade quality of Photoneo 3D vision systems ensures high levels of performance even in demanding industrial environments, including challenging lighting conditions
- Undergirding Photoneo's unique, flexible, and universal robotic intelligence systems are AI and powerful 3D vision

Customers



Press releases

- Bin Picking Studio 1.6.0: Release Notes
- Photoneo transforms e-commerce order fulfillment, raising a \$21 million Series B funding
- Photoneo receives the 2021 RBR50 Robotics Innovation Award
- IERA Innovation Award winner 2020: Robots get “eyes” like humans
- Novel technology breaches the gap in industrial 3D vision
- The new generation of PhoXi 3D Scanner: Better, faster, and more durable



Media coverage

Top listing

- 10 Most Innovative Machine Learning Startups & Companies in 2022 ([Data Magazine](#))
- Best 14 Startups in Europe in 2022 ([StartupTips](#))
- Best AI startups 2022 ([StartupTips](#))
- Top robotic companies to watch in 2021 ([High-Tech Trends](#))
- Top AI startups to watch in 2021 ([International Business Times](#))
- Best AI startups 2022 ([StartupTips](#))
- Startup of the Week ([TechRound](#))
- 21 startups to watch in Central Europe ([Sifted](#))

Interviews

- About 3D vision & 3D cameras - with Tomáš Kovačovský, CTO ([The Robot Report](#))
- Experts on AI in robotics - with Michal Maly, Director of AI ([Robotik und Produktion](#))
- Photoneo's CEO on the key to success - with Ján Žižka, CEO ([Startup.info](#))
- The science of 3D machine vision - with Svorad Štolc, CTO of Sensors ([The Robot Industry Podcast](#))

Articles

- Novel CMOS technology reboots vision-guided robotics ([Photonics Spectra](#))
- Robot vision and AI combine for advanced automation ([Logistics Business](#))
- 3D machine vision helps breed new wheat crop varieties ([MVPro](#))
- Image recognition enables complex object handling applications ([Robotics 24/7](#))
- AI + 3D machine vision transforms depalletization ([Vision Spectra](#))
- Machine vision revolutionized: The 3D sensing in motion ([Robotics & Automation News](#))
- How singulation and sorting of parcels can benefit from AI-powered robots ([The Robot Report](#))
- Machine vision approach addresses limitations of standard 3D sensing technologies ([EE Times Europe](#))

Awards



Media assets

Company logo

Photoneo: [Download](#)

Photoneo_Focused on 3D_Vertical: [Download](#)

Photoneo_Focused on 3D_Horizontal: [Download](#)

Avatar

Photoneo: [Download](#)

Images

MotionCam-3D Color: [Download](#)

Automation solutions: [Download](#)

PhoXi 3D Scanner: [Download](#)

Videos

This is Photoneo: [Link](#)

Fast hand-eye picking: [Link](#)

Automated inspection of cars: [Link](#)

Automated object dimensioning: [Link](#)

Logistics solutions by Photoneo: [Link](#)

MotionCam-3D - Guitar lady showcase: [Link](#)

Picking of items moving on an overhead conveyor: [Link](#)

Photoneo MotionCam-3D - See the world in motion: [Link](#)

Picking from shelves using vision-guided mobile robotics: [Link](#)

Automated sandblasting & picking of large objects in motion: [Link](#)

Social media links





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