

Unbeatable advantages

- ▶ **Every detail in a fraction of a second**
Best in class resolution/speed ratio: PhoXi® Scanner provides **3.2 million 3D points** in every scan. The scans are provided four times per second.
- ▶ **Always-in-focus**
Laser projection guarantees a long depth of field. Projection is focused from 1 m up to 3 m. **No linear axes needed.**
- ▶ **Power of GPU**
The embedded NVIDIA® Jetson™ platform
- ▶ **High-end Construction**
Thanks to lightweight carbon fiber body it is possible to mount the scanner on a robotic arm, where every gram counts. Total weight of the device is approximately 1 kg.
- ▶ **Ready for processing**
PhoXi® Scanner provides per pixel normal vectors.

We are supporting:



PhoXi® Control Software

- ▶ Connection
Gigabit ethernet
Network Discovery with Plug and Play functionality
- ▶ Settings & Configuration
Intuitive device settings & output selection
Ambient light rejection
- ▶ 3D Point Cloud Viewer
- ▶ Software Trigger and Freerun operation modes
- ▶ Available on **Windows** and **Ubuntu Linux**

API

- ▶ Interfaces
C++ / C#
OpenCV, Halcon, PCL and ROS support
- ▶ Examples that clarifies API features

Output

- ▶ Integrated GPU calculates: Point Cloud,
- ▶ Normals, Depth Map, Texture and per pixel Confidence
- ▶ Resolution: (2064 x 1544) or (1032 x 772)



Specification	PhoXi® XS	PhoXi® S	PhoXi® M	PhoXi® L	PhoXi® XL
General description	Very small objects like PCB parts can be scanned with a great precision.	PhoXi "S" is perfect for thin objects like cables.	PhoXi "M" is designed for football-sized objects.	Palletizing and de-palletizing is a common application for PhoXi "L" .	PhoXi "XL" is great for scanning big objects.
Scanning volume:	120 x 80 x 20 mm	360 x 290 x 70 mm	600 x 420 x 450 mm	1100 x 800 x 900 mm	2300 x 1600 x 1300 mm
Absolute accuracy (1σ)	= 25 μm	= 50 μm	= 100 μm	= 200 μm	= 500 μm
Z noise (1σ)	= 20 μm	= 50 μm	= 100 μm	= 190 μm	= 350 μm
Scanning time	250 - 2000 ms	250 - 2250 ms	250 - 2500 ms	250 - 2750 ms	250 - 3000 ms
Scanning+processing+transfer time	850 - 2800 ms	850 - 3050 ms	850 - 3300 ms	850 - 3550 ms	850 - 3800 ms

About Photoneo®

Our vision is to give robots human-like eyes, perception & intelligence.

We don't want to deliver just "another" machine vision system, we are changing the whole definition of machine vision by introducing new hardware and software solutions.

Our mission is to:

1. Introduce state of the art 3D scanners (static scene) and 3D cameras (dynamic scene) to the market and support their users with game changing SDKs and APIs.
2. Change traditional 2D machine vision approach in industrial environment and bring unique devices with novel functionality to the market. With our new devices manufacturers will be able to build more flexible production lines and robot integrators will get powerful tool for new applications.

Partners network



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Photoneo
focused on 3D



Smart 3D Vision

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