

# Photoneo Versioning Guide

## GigE Vision Support

Photoneo 3D Sensors with firmware version 1.10.0 and above can be operated using a 3rd party application without PhoXi Control thanks to the GigE Vision standard. More information and GigE integrations are available at the [3rd party integrations](#).



## PhoXi Control - Photoneo 3D Sensor compatibility

PhoXi Control is an application compatible with Windows and Ubuntu, that acts as a driver for the Photoneo 3D Sensors, providing both a graphical user interface and API. Firmware is the software running on the device. This document provides an overview of the PhoXi Control versions and their compatibility with Photoneo 3D Sensors.

**PhoXi Control and  
Photoneo 3D Sensors  
compatibility**

**MotionCam-3D  
Color**



**MotionCam-3D**



**PhoXi 3D Scanner  
Gen 2**



**PhoXi 3D  
Scanner Gen 1**



Recommended version				
PhoXi Control 1.12	✓	✓	✓	✓*
Previous versions				
PhoXi Control 1.9. - 1.11	✓	✓	✓	✓*
PhoXi Control 1.7 - 1.8		✓	✓	✓*
Obsolete versions				
PhoXi Control 1.4.1		✓		
PhoXi Control 1.2.31			✓	✓*
PhoXi Control 1.1.61				✓

\*Device running FW 1.2

## Semantic versioning

Semantic versioning was introduced with version 1.7 in November 2021. The numbering scheme uses the MAJOR.MINOR.PATCH numbers. E.g. for version 1.9.1, the major number is 1, the minor is 9 and the patch number is 1.

- The MAJOR version will change with incompatible API changes

- The MINOR version will introduce new functionality in a backward-compatible manner
- The PATCH version will change only for bug fixes or inevitable HW compatibility fixes. This number can be updated without announcement and the patch number won't be generally referred to

## GenICam support

GenICam support was introduced with PhoXi Control 1.8.2. More information about GenICam integrations is available at the [3rd party integrations](#).

## Firmware - Photoneo 3D Sensor compatibility

**Firmware and  
Photoneo 3D Sensors  
compatibility**

**MotionCam-3  
D  
Color**



**MotionCam-3D**



**PhoXi 3D Scanner  
Gen 2**



**PhoXi 3D Scanner  
Gen 1**



Current versions				
PhoXi Firmware 1.12	✓	✓	✓*	
Previous versions				
PhoXi Firmware 1.10 - 1.11	✓	✓	✓*	
PhoXi Firmware 1.9	✓	✓		
PhoXi Firmware 1.2			✓	✓
Obsolete versions				
PhoXi Firmware 1.4 - 1.8		✓		
PhoXi Firmware 1.1				✓*

\* Available to PhoXi 3D Scanners Gen 2 shipped after November 2021.

**Note:** Devices are always shipped with the latest FW version. The device cannot operate on a lower version than it was produced with.

## Minimal firmware versions

Photoneo continuously updates the Hardware, Firmware, and Software of the solutions in line with customer and market requirements. These updates provide full backward compatibility for our customers with an installed base while enabling Photoneo to react swiftly with inevitable component-level variations. In line with technology advancement, there are required corresponding minimal Firmware versions.

**Firmware and  
Photoneo 3D Sensors  
compatibility**

**MotionCam-3D  
Color**



**MotionCam-3D**



**PhoXi 3D Scanner  
Gen 2**



**PhoXi 3D Scanner  
Gen 1**



Transition Date	Minimal firmware versions			
<b>2023-11-20</b>	<b>1.12</b>	<b>1.12</b>	<b>1.12*</b>	<b>1.2.38</b>
2023-06-09	1.11	1.11	1.11*	1.2.38
2023-10-05	1.10	1.10	1.10*	1.2.37
2022-15-11	1.9.4	1.9.4	1.2.37	1.2.37
2021-16-11	n.a.	1.5.7	1.2.33 Platform change LT → YT	1.1.83
Platform	YT	YT	LT / YT	LT

\*Applies for PhoXi 3D Scanners Gen 2 shipped after November 2021 (including repaired devices).

## Platforms Legend:

LT - original OS platform for PhoXi 3D Scanners using 1 partition scheme

YT - new OS platform supporting A/B partition scheme updates

Note: Repaired devices will return to customers with the latest firmware version according to the table in the section [Minimal firmware versions](#).

## PhoXi Control - API Compatibility

In general, the PhoXi Control version needs to be the same or higher than the API version. For example, if your application was built with the API version 1.7.5, you can use PhoXi Control 1.7.5 and higher. However, if the API version is lower than 1.7.5 (e.g. 1.4.1, 1.2.35), the project will need to be rebuilt in order to use it with PhoXi Control equal to or higher than 1.7.5.

PhoXi Control	API	Status
<b>1.7 - 1.12</b>	<b>1.7 - 1.12</b>	✓*
1.4 - 1.12	1.2 - 1.4	✗
1.1 - 1.2	1.1 - 1.2	✓*

\*The API version needs to be lower or equal to the PhoXi Control version.