

Bin Picking Studio

Quick Start Guide

Scope of Delivery

- 01 **Vision Controller -
industrial-grade device**



- 02 **Pre-installed Bin
Picking Studio software**

- 03 **Power adapter
(230VAC/20VDC, 60W)**



- 04 **Power cable with an EU
plug**



- 05 **Power connector**



- 06 **Power DC Cables**



Operation of the Bin Picking Studio

The Bin Picking Studio is operated through the Vision Controller. First, you need to plug the Vision Controller into a power outlet using the provided cables. To work with the Vision Controller, you need to connect the monitor, keyboard, and mouse (like a standard desktop). It is not required to have accessories connected the whole time.

Initial setup of the Vision Controller

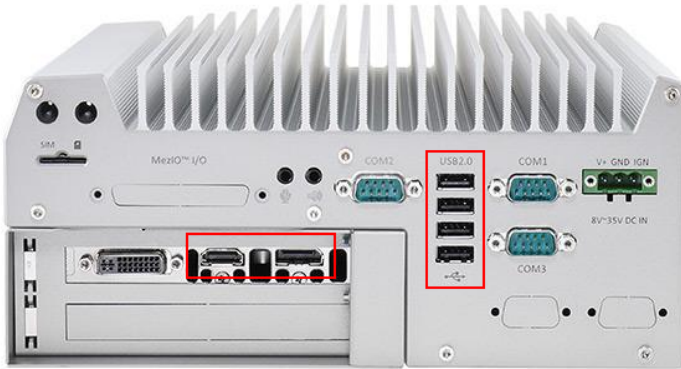
Connect all cables as shown in Figure 1 below. Make sure all cable connections are secure and all screws on the green connector are tightened. The green connector has to be secured to the VC with screws as well.

Fig. 1. Power cables



Connect your Vision Controller to a monitor (using HDMI or DisplayPort connectors), mouse, and keyboard (using USB connectors). All connectors are located on the side of the Vision Controller as displayed in Figure 2 below.

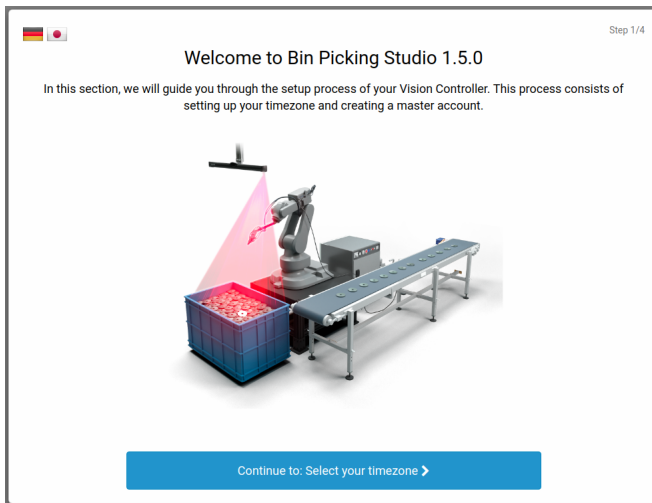
Fig. 2. User accessories ports layout



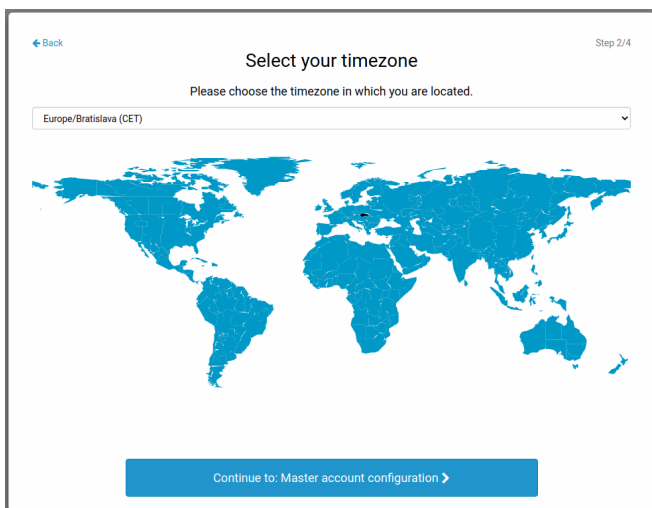
Initial setup of Bin Picking Studio

When all your accessories are connected to the Vision Controller and the power, you may turn on your Vision Controller. When the Vision Controller is booted up, the Bin Picking Studio application will launch automatically.

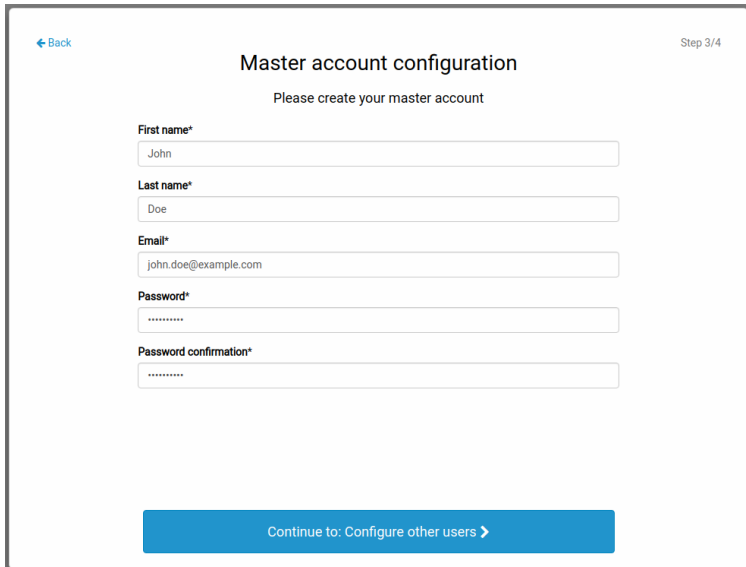
When Bin Picking Studio runs for the first time, a Welcome Page appears, which will guide you through the initial setup of BPS.



Firstly you will be asked to select your local timezone, either by clicking on the map or by selecting it from the list.



After selecting your timezone, you will be prompted to create a Master account. This account serves to manage Bin Picking Studio from your side. It allows full usage and setup of BPS solutions, plus access to employee user management.



The screenshot shows a web form titled "Master account configuration" with a subtitle "Please create your master account". The form is part of a multi-step process, indicated by "Step 3/4" in the top right corner. A "Back" link is in the top left. The form contains five input fields: "First name*" with the value "John", "Last name*" with the value "Doe", "Email*" with the value "john.doe@example.com", "Password*", and "Password confirmation*". The password fields are masked with dots. A blue button at the bottom says "Continue to: Configure other users >".

← Back

Step 3/4

Master account configuration

Please create your master account

First name*

Last name*

Email*

Password*

Password confirmation*

Continue to: Configure other users >

In the next step, you will see a form to create any number of Employee accounts, which have basic access to BPS solutions. You may safely skip this step - employee accounts can be added later via Account management.

[← Back](#)Step 4/4

Configure other users

On this page, you may create employee accounts.

Amelie Poulein

✕

Victor Hugo

✕

[+ Add a new user](#)

First name*

Last name*

Email*

Password*

Password confirmation*

Continue to: Finish >

After finishing this initial setup, your BPS installation will have one Master account and any number of Employee accounts (optional).

Connection to the scanner and robot

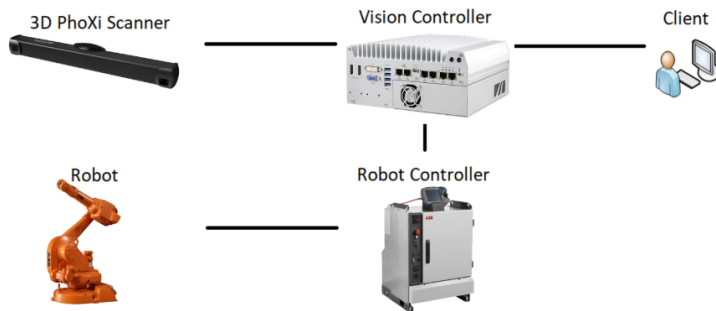
To connect the VC to the scanner and robot, please use 1 Gbit ethernet cable - RJ45 (not included) and connect them to the following ports (Figure 4). Please do not use other ports as they are not supported.

Fig. 4. Network ports overlay

- Robot port
- Scanner port
- Network port (internet)

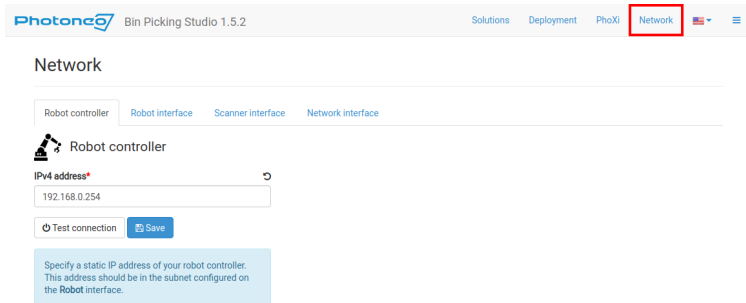


Fig. 5. Bin Picking Studio product topology



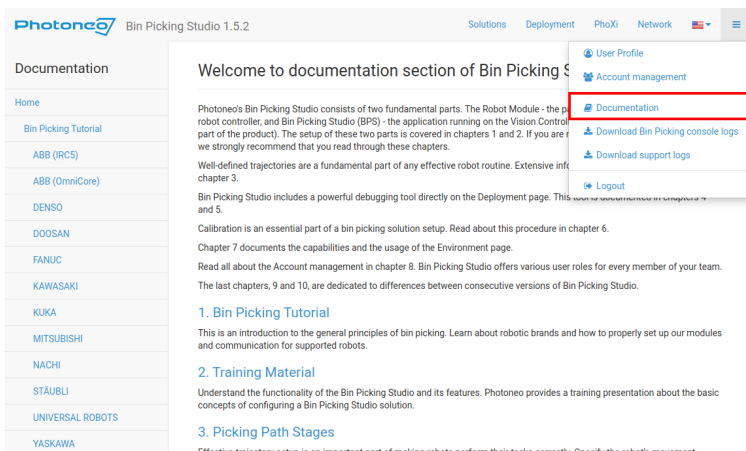
When the robot and scanner are connected to the VC, you need to set up their IP addresses (both are mandatory) on the Network page (Figure 6) of the Bin Picking Studio.

Fig. 6. Network page overview



For setting up the communication with the robot (unique for each robot brand), please read the user manuals and tutorials which you can find on the Documentation page (Figure 7). To obtain a robotic package for a specific brand (modules and robot program), please contact **support@photoneo.com**

Fig. 7. Documentation page overview



Solutions list

Fig. 8. Overview of the solutions

Name	ID	Robot	Author	Last modified	Flags				
Example solution: KUKA Demo with 2-finger gripper	★ 1	KR 6 R700 2	me	2020-11-05 20:26	ready	autostart	 Duplicate	 Export	 Delete
Example solution: UR10 with wide path planning range (2 VS)	🕒 2	UR10	me	2020-11-05 20:26	ready		 Duplicate	 Export	 Delete
Example solution: ABB - big picked object (2 VS)	★ 3	IRB 6700- 200/2.6	me	2020-11-05 20:26	ready		 Duplicate	 Export	 Delete

The solution holds all bin picking configurations except for a network configuration of your installation. After completing all the steps in the solution wizard, the bin-picking application can be deployed on the Photoneo Vision Controller

A completely configured solution is flagged by the “ready” label.

Solution for automatic deployment marked by the label “autostart”.

Solution with the flag “factory default” is preconfigured by Photoneo and cannot be accessed directly (must be duplicated).

Remote support

Photoneo offers remote support for its customers. To connect to your Vision Controller, it needs to be connected to the internet (through the Network port). Your Vision Controller comes with a pre-installed TeamViewer. If you need remote support, please send an email to support@photoneo.com with a description of the issue and login credentials to the TeamViewer (Figure 8).

Fig. 8. TeamViewer login credentials

The screenshot shows the TeamViewer application window. The title bar says "TeamViewer". Below it is a menu bar with "Connection", "Extras", "Help", and "Feedback". The main interface has a blue header with "Remote Control" and "Meeting" tabs. The "Remote Control" tab is active. The main content area is divided into two columns. The left column is titled "Allow Remote Control" and contains fields for "Your ID" and "Your password", both with blue arrow icons. Below these is a section titled "Unattended Access" with three options: "Start TeamViewer with system" (checked), "Assign device to account" (with a plus icon), and "Grant easy access" (with a plus icon). The right column is titled "Control Remote Computer" and contains a "Partner ID" field with a dropdown arrow. Below this are two radio buttons: "Remote control" (selected) and "File transfer". A blue "Connect to partner" button is at the bottom of this column. At the bottom of the window, a status bar shows a green dot and the text "Ready to connect (secure connection)". On the right of the status bar, there is a "Computers & Contacts" section with a "Sign In" link and a right arrow.

TeamViewer

Connection Extras Help Feedback

Remote Control Meeting

Allow Remote Control

Your ID Your ID

Password Your password

Unattended Access

- ☒ Start TeamViewer with system
- ☐ Assign device to account
- ☐ Grant easy access

Control Remote Computer

Partner ID

v

☒ Remote control

☐ File transfer

Connect to partner

Ready to connect (secure connection)

Computers & Contacts Sign In >>

Contact us

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