

# Bin Picking Studio

Quick Start Guide

## Scope of Delivery

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



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

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



04 **Power cable**



05 **Power connector**



06 **Power DC Cables**



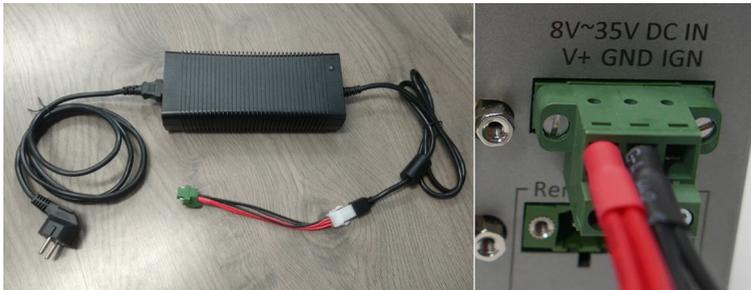
## Operation of the Bin Picking Studio

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

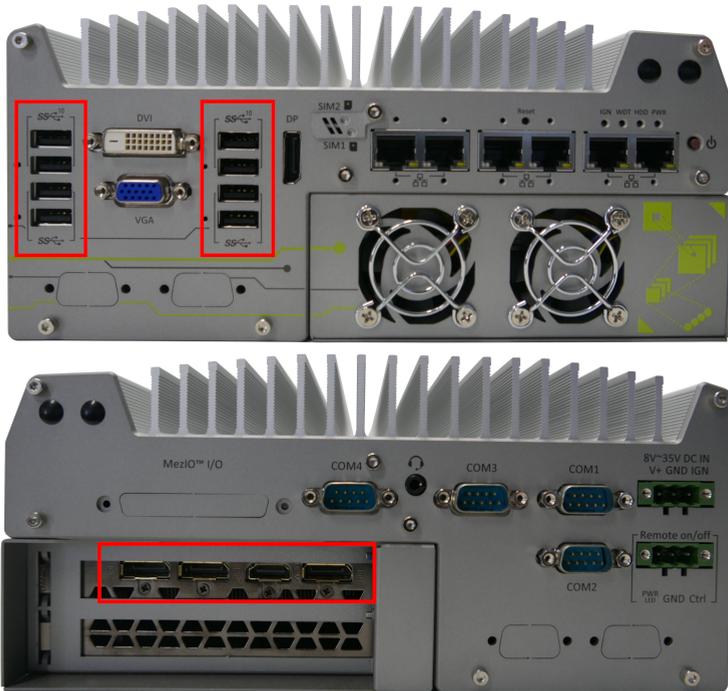
Connect all cables as shown in Figure 1 below. Make sure all cable connections are secure and all screws on the green connector are tightened. The green connector has to be secured to the VC with screws as well.

**Fig. 1.** Power cables



Connect your Vision Controller to a monitor (using HDMI or DisplayPort connectors), mouse, and keyboard (using USB connectors) as displayed in Figure 2 below.

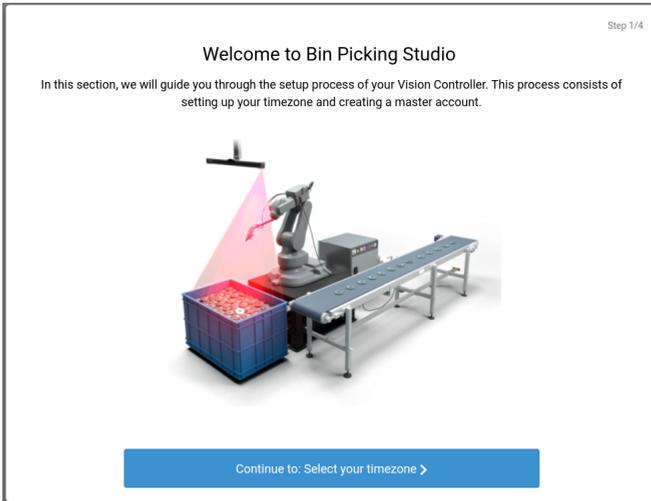
**Fig. 2.** User accessories ports layout



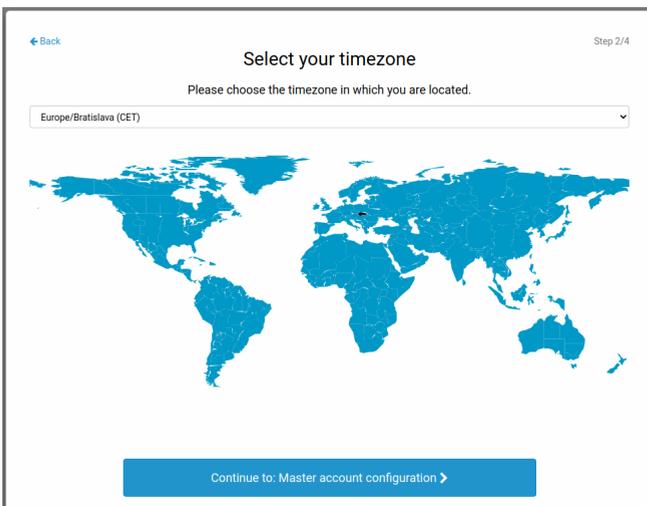
## Initial setup of Bin Picking Studio

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.

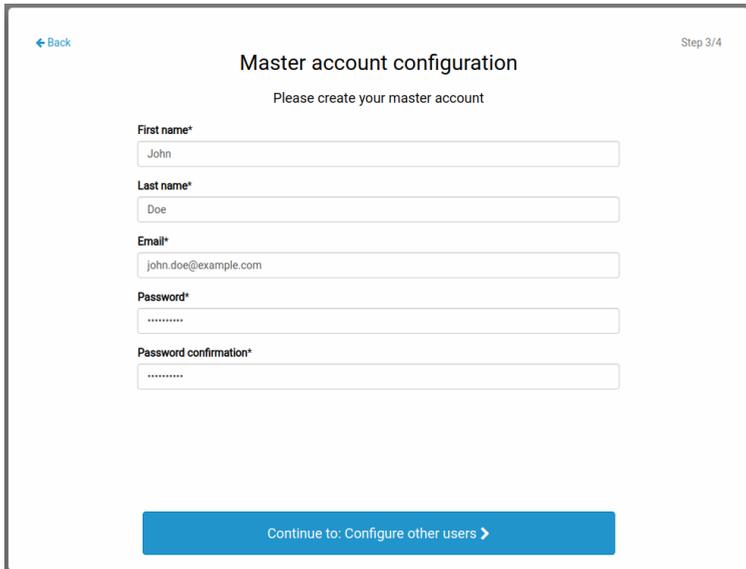
When Bin Picking Studio runs for the first time, a Welcome Page appears, which will guide you through the initial setup of BPS.



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 "Step 3/4" indicator in the top right corner and a "Back" link in the top left. The form prompts the user to "Please create your master account" and includes the following fields:

- First name\***: Input field containing "John".
- Last name\***: Input field containing "Doe".
- Email\***: Input field containing "john.doe@example.com".
- Password\***: Input field with masked characters "\*\*\*\*\*".
- Password confirmation\***: Input field with masked characters "\*\*\*\*\*".

At the bottom of the form is a blue button labeled "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\***

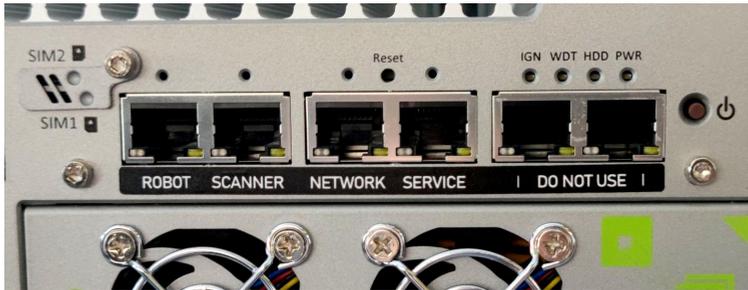
[Continue to: Finish >](#)

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

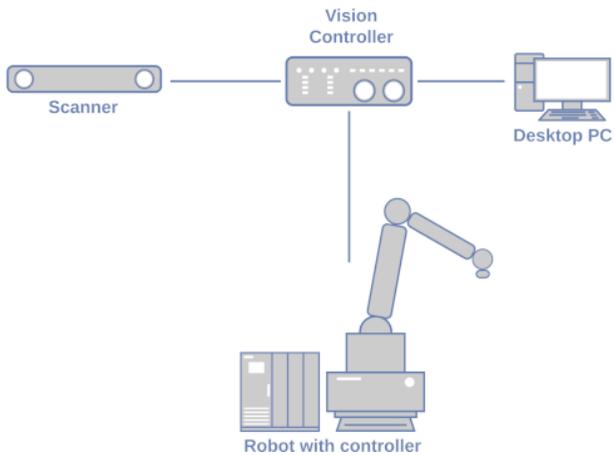
## Connection to the scanner and robot

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



**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.

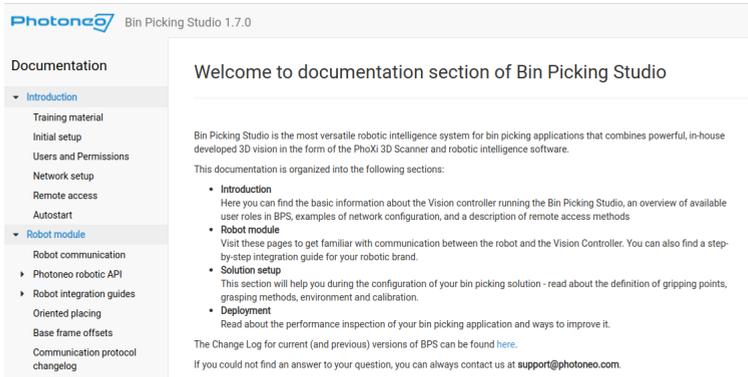
**Fig. 6.** Network page overview

The screenshot displays the Network page overview, organized into three main sections: Robot interface, Scanner interface, and Network interface.

- Robot interface:** Includes fields for IPv4 address (192.168.1.2), Subnet mask <1; 32> (24), and Bin Picking Server port <1024; 65535> (None). A Test connection button is located below.
- Scanner interface:** Features a DHCP server toggle button.
- Network interface:** Features a DHCP client toggle button and fields for IPv4 address (10.6.118.165), Subnet mask <1; 32> (16), Gateway (10.6.0.1), Primary DNS server, and Secondary DNS server.

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 visit **photoneo.com**.

**Fig. 7. Documentation page overview**



## Solutions list

**Fig. 8. Overview of the solutions**

Name	ID	Robot	Author	Last modified	Flags	Actions
Example solution 1: Kawasaki with unique grasping method for each VS	4	RS-007L	me	2022-01-31 10:20	ready	Duplicate, Export, Delete
Example solution 3: URS Demo with 2-finger gripper	2	URS	me	2022-01-31 10:20	deployed	Duplicate, Export
Example solution 4: KUKA Demo with 2-finger gripper	3	KR 6 R700 2	me	2022-01-31 10:20		Duplicate, Export, Delete
Example solution 8: Kawasaki with hand-eye calibration	1	RS-007L	Admin Binpicking	2022-01-31 10:18	factory default, ready	Duplicate, Export

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.

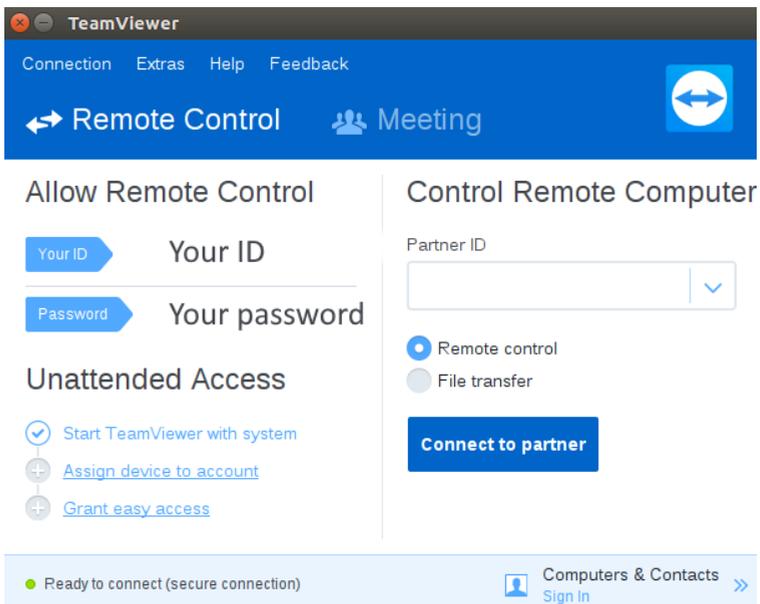
A completely configured solution is flagged by the “ready” label. The currently running solution has the “deployed” label.

A 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](mailto:support@photoneo.com) with a description of the issue and login credentials to the TeamViewer (Figure 8).

**Fig. 8.** TeamViewer login credentials



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### Contact us

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