Photocentric STUDIO





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USER MANUAL

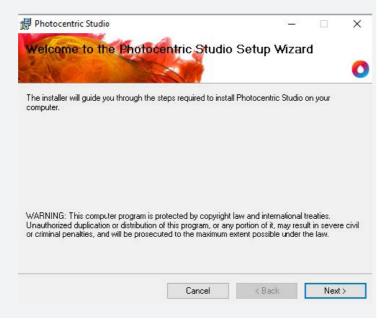


Software Installation

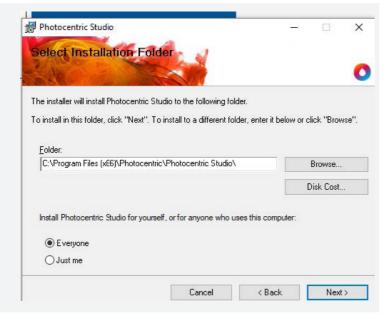
If Windows Defender prevents the installation from starting simply click **More Info** then **Run Anyway** to begin the installation process.



2 The set up wizard will then load on your screen. To proceed with the installation simply click **Next**.



3 Now select the location for your installation to be saved to. If you wish to change the location simply click **Browse** and select a new location of your choice. Once the location has been selected click **Next**.



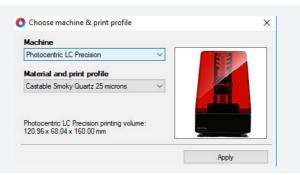
4 Once you have selected the location of the # Photocentric Studio installation click Next to begin the installation Confirm Installation of the software. The installer is ready to install Photocentric Studio on your computer Click "Next" to start the installation Next> 5 Installation has now completed, click Close Photocentric Studio and you can now open the software. When nstallation Complete opening the software you will see a section to enter your license number, click on this Photocentric Studio has been successfully installed. section and enter your license number Click "Close" to exit provided into the field as shown. NOTE The software comes with a 30 day trial. If you wish to use the trial before activating your license simply click 'Continue Evaluation'. Please use Windows Update to check for any critical updates to the .NET Framework. O Photocentric Studio Enter license text for Photocentric Studio below 14 of 14 days remaining 14 of 14 days remaining. Paste From Clipboard Load From File... Continue Evaluation Apply License To exit Photocentric Studio, click the 'Exit Program' button below

Exit Program

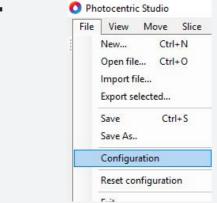
Getting Started



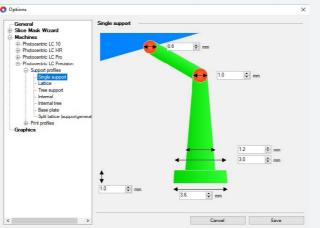
Select the printer and the resin profile, then press Apply.



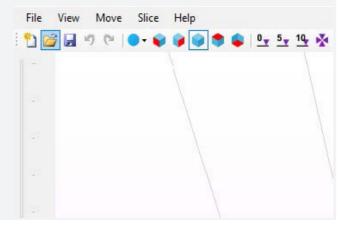
2



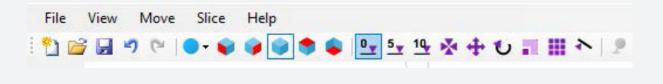
To configure general settings, machine and print settings, press **File** and then select **Configuration**. You can change support settings in the dropdown **Support Profiles**.



3 Press the selected button to open your file.

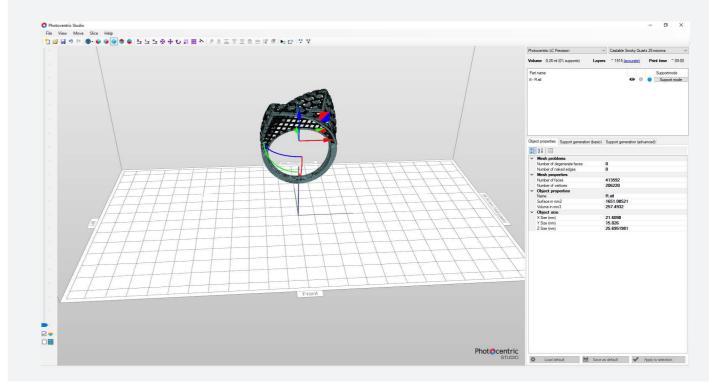


4 Use the highlighted buttons to change views, copy, move and for scaling.



Support

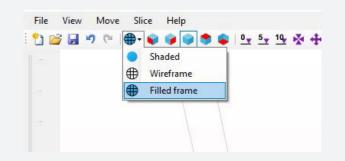
For support you need to activate support mode by going to Help on the top menu, Help documentation, Supporting.



5 Some stl models have a very shiny surface which is difficult to see when adding supports. To solve this issue you can change the view to **Filled Frame.**

NOTE

To help further you can also change the colour of the object surface in configuration mode.



5.1

For designing different variations of manual supports, adding and deleting supports use the 8 buttons shown.

There is also the option to choose different variations of supports in the automatic menu.

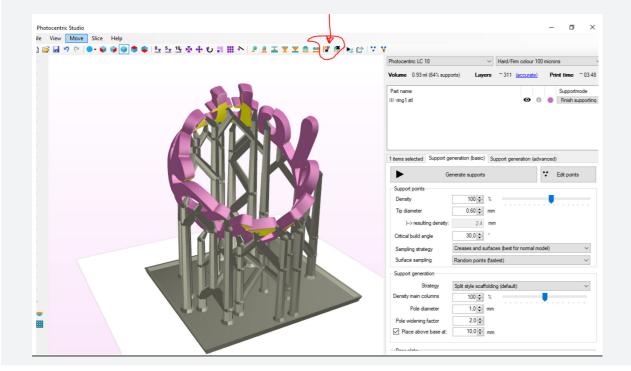
The red circled buttons will show you the skeleton of supports or point of support contact to the 3D model, here you can modify the joints and positions.



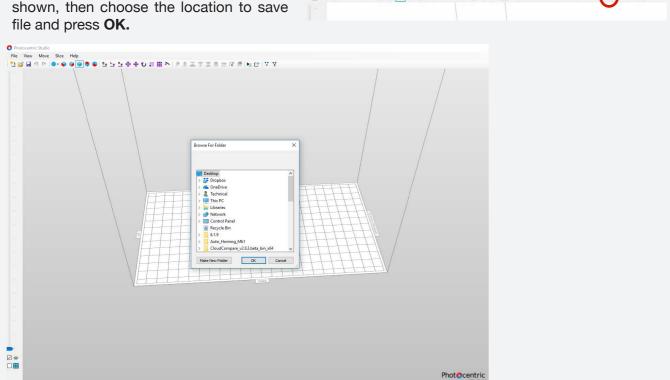
3



6 The two circled buttons allow you to flatten supports. This solves the problem of lattice supports becoming slow, this can happen when very detailed supports are used. Typically this would be used once you have finished with an object, allowing you to easily handle 20 objects.



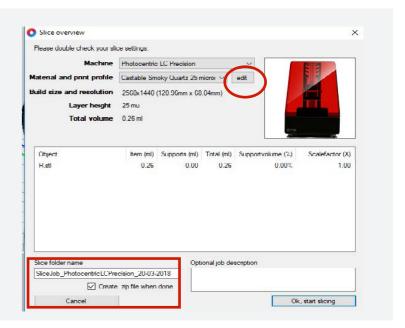
To slice file, use the red circled button shown, then choose the location to save file and press OK.



8 Before slicing you can check your machine and print settings in Edit.

In Edit you can also change your file name under Slice folder name.

After your settings have been checked you can then begin slicing by pressing OK, start slicing.



Print settings in Edit mode give you access to the advanced print settings option. We do not recommend changing anything in the first two tabs. In the tab GCode Settings you have access to the print time and motor parameters which can be modified.

In the tab **GCode Script** you have access to the GCode script modification.

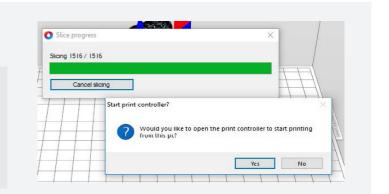


9 Once slicing has finished press **Yes** to open the printer controller.

NOTE

For LCHR you do not need to use printer controller. You can transfer the sliced file to a USB stick and then start your print with LCHR.

For all other printers you will need to use printer controller.

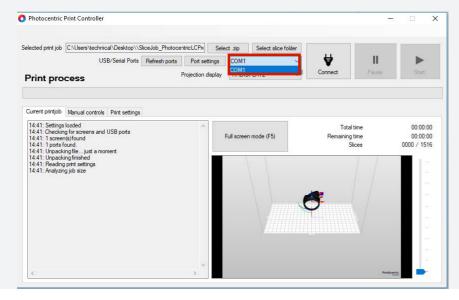




10 Open printer controller via red circled button.



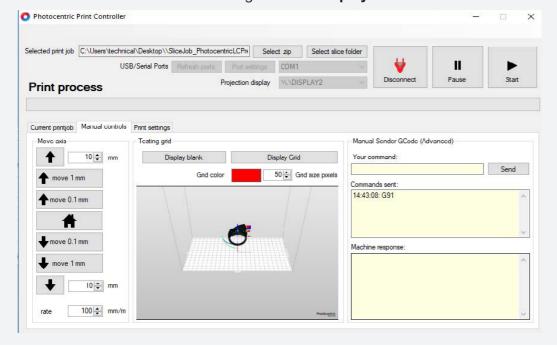
11 To connect your printer via print controller select COM port and display then use Connect button.



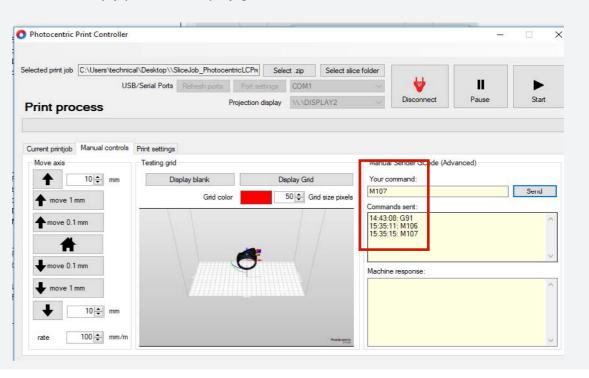
12 After successful connection select **Manual Controls** to check the screen and stepper motor are functioning and connection correctly.

Select **Display Grid** to check your printer display, your display should show a grid.

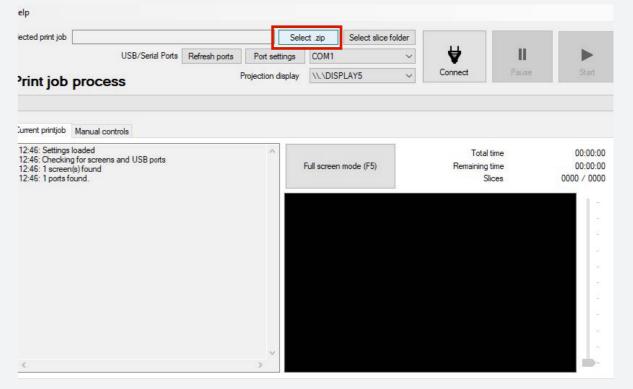
To show blank screen and turn off grid select Display Blank.



13 For LC Precision you will need to write in the red circled section command M106 to check your screen and back-light, then press **Display Grid**. Use command M107 to turn off. For the LC Pro simply press the display grid.

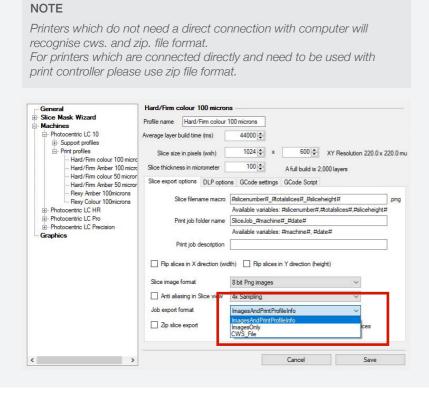


For uploading the file please use the **Select Zip** button.
Uploaded file format can be zip, cws or folder with sliced images and g-code.





15 Use the red circled option for choosing desired file format.

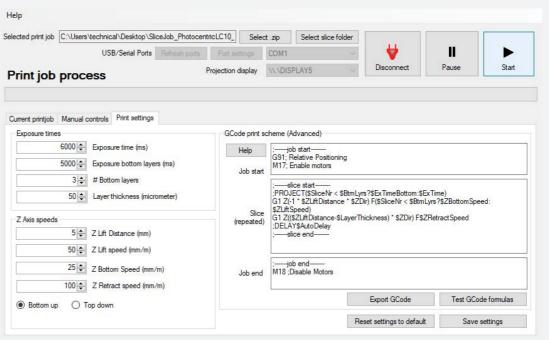


16 If you would like to save your file but still have the option to modify, for example supports, go to File then Save as type: and choose p3d format.

If you save your file in the .stl format you will not have the option to modify all of the objects.



To begin the print process press the **Start** button. The software will inform you when the print process has finished.



When you see the Blue update alert, please download the latest version of software from the Photocentric Studio webpage. Before doing so remember to uninstall your current software, and then install the new one. If you want to keep your configuration/settings, before uninstalling the software go to the tab file "export configuration xml". If you want to just save the machine profiles please go to the tab configuration machine and export the desired machine profile with the resin and support profiles.

