CAM 1.0.28 Print Queue Operating Guide
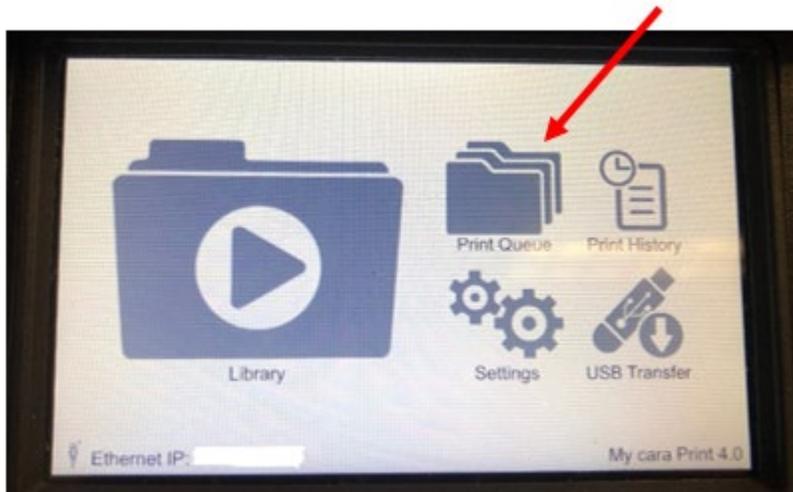
The new Print Queue appears on your cara Printer as shown on the left. However, to be able to utilize the Print Queue, you must have network connectivity between your CAM computer and your cara Print 4.0. Please refer to your cara Print 4.0 Application Guide for instructions on how to connect your printer.

To add files from your print library into your queue, click on the Queue folder in your CAM. Next, use the dropdown menu under "Model List" to select the print file that you would like to add. After you have selected the file, use the dropdown menu under "Material List" to select the dima Print Material that you would like to use to print that file. Next, select the dropdown menu under "Quality List" to select the detail level or slice thickness (shown in microns) for this print file.

Once you have selected your file, your material, and your slice thickness, click on the "+" sign to add that print file to your queue.
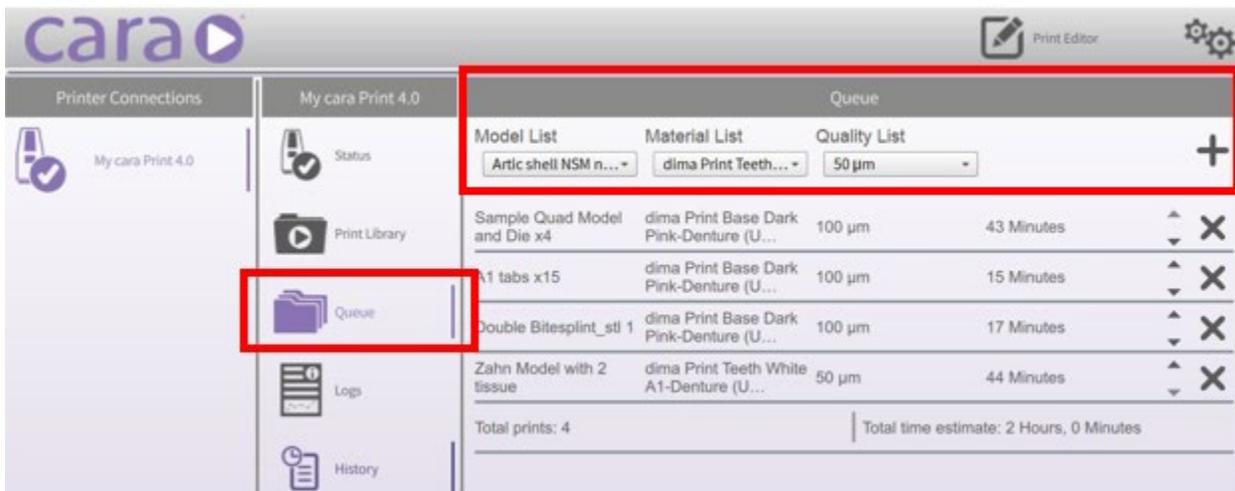
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In your Print Queue, you can use the highlighted arrows below, next to each file, to arrange the files in the order in which you would like them to print.
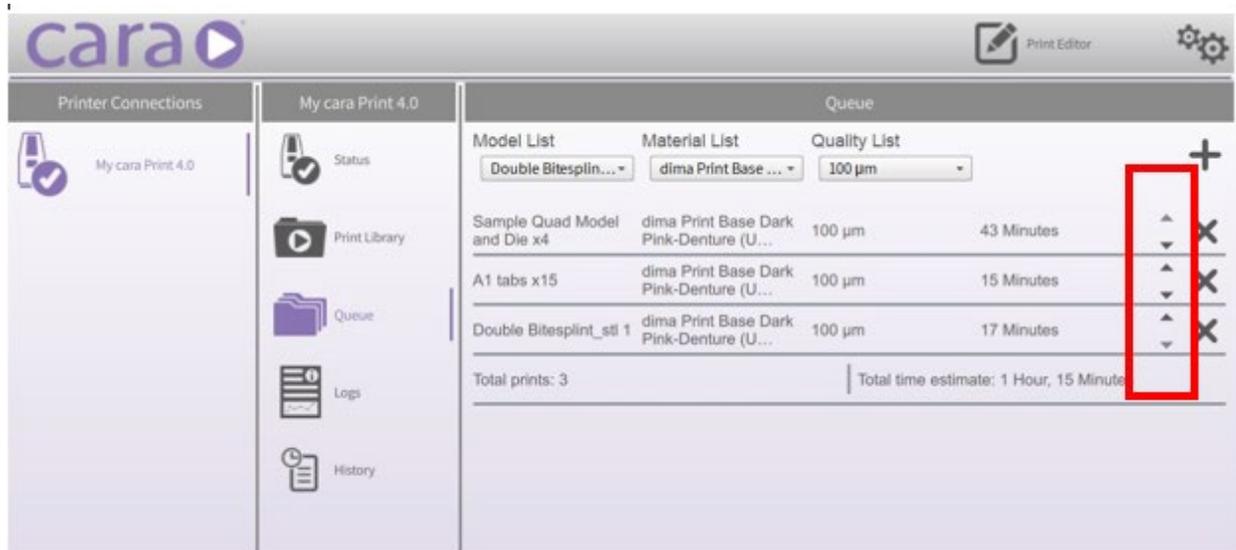
The print queue on your printer will update in real time for any files added or adjusted in your CAM. From your printer, you can view your print queue as seen below. Since you have already selected your dima print material and your layer thickness for each of these files, all you need to do to print the files in your queue is to hit the "Print Next" button to begin printing the first file on your list. After printing, you can either reprint your last file, or print the next file in your queue.

*NOTE: Before you print a file in your print queue, you must ensure that the print window inside your printer is clean, your print tray aperture window is clean, and that your build table is clean. You must also ensure that the proper material has been mixed properly and poured into your print tray, and that they print tray is fully inserted into the printer. As soon as you hit "Print Next," your print will begin.

CAM 1.0.28 Print Queue FAQ's

Q: What is the purpose of the Print Queue?	**A:** For those who print cases all day long, or maybe print 3-4 cases per day, the new print queue allows users to manage the files that need to be printed each day and in the order in which they need to be printed. If you have one person managing the printer and a separate person managing the CAM and nesting cases, the person who is managing the set-up of the files can create a daily print list. That print list can be created, organized into print priorities, and uploaded directly to the new print queue via a network connection between your CAM and cara Print 4.0. This way, the person operating the printer does not have to search through the library to find the files that need printing each day.
Q: When the printer operator selects a print listed in the print queue, will they still need to select the material and resolution before printing?	**A:** No. Selecting the material and resolution settings for each file in the queue is completed in the CAM. Before a print file can be transferred into the queue, the operator will select the file from the print library, the material to print the object, and the required resolution (slice thickness) for the file.
Q: What happens if the operator wants to print a file in the queue, but needs to change the material or the slice thickness?	**A:** The file still exists in the print library so all you would need to do is exit the queue and go into the print library and print it like you always have.
Q: After I have nested and saved a print file to my print library, how do I get that file into the queue?	**A:** In the software-connected CAM, click on the "Queue" folder. To add a print file from the library to the queue, go to your dropdown menu under "Model List" in the queue, find the file in the library you want to add to the queue, and then click on that file. Then go to the "Material List" dropdown to select the material you want to use to print the object. Once completed, go to the dropdown menu titled "Quality List" and select the micron level or required resolution you would like to use to print the selected file. Once the model, material, and resolution has been selected, hit the "+" button to the right of the dropdown menus to add that file to the queue.
Q: Once I add print files to my queue, can I reorganize the files so I can print them in a specific order?	**A:** Yes. Next to each file in your print queue will be small up and down arrows that will allow you to move print files up or down on the list so you can arrange them in the print order of your choosing.
Q: Can you nest a file in the CAM and save it directly to the queue?	**A:** No. You can only save nested files to your print library. Then every time you select a file from your library to add to the queue, you have to select the print file, the dima Print Material, and the slice thickness at that time. In order for a print file to be uploaded into the queue, the CPJ file has to already exist on the printer.
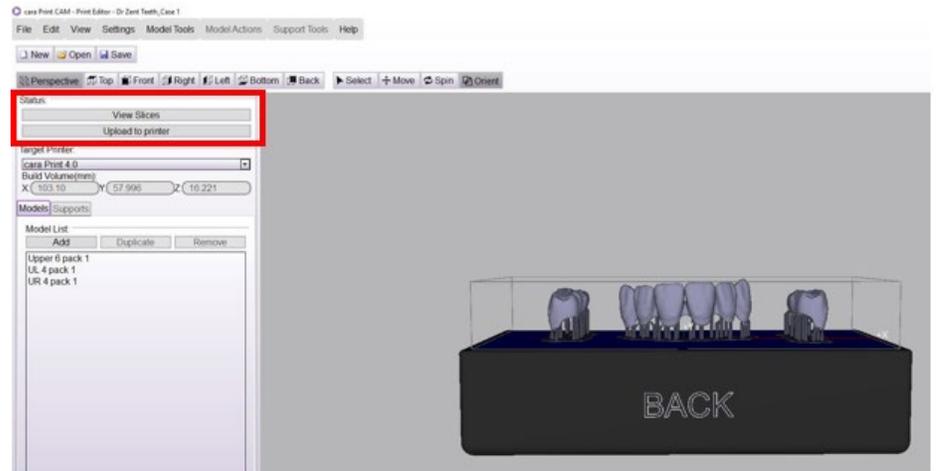
Q: When nesting a file, after slicing, is there a way to upload the nested file or send it directly to the printer without having to save it in a file on my computer?	**A:** Yes. We added a "Upload to Printer" button at the end of the nesting cycle (in the print editor highlighted below) that appears after you slice a file. The button will allow you to upload a file onto any of the available printers connected to your network. This way, you will not have to find the nested file wherever you stored it on your computer. You can slice it, review slices, and send it directly to your printer of choice (as long as you are connected via a network).
Q: Is there a way to select multiple print files from my computer and upload them directly to the printer via my network, or does that process still need to be done one file at a time?	**A:** Yes. Part of the new functionality of CAM 1.0.28 is that, in your print library (on a connected printer) you can upload batches of print files to send to the printer. In the CAM, go into your print library and hit the "Add a New Print" button at the bottom of the page. Find the files you would like to upload into your print library, highlight your chosen files, and hit "Open" at the bottom of your page. Once you hit "open," your selected files will automatically download into your print library. When you do that, during import, the new CAM will notify you (via check marks) if the files you are trying to import already exist on the printer or are insufficient for importing (i.e., not sliced, not CPJ files, etc.). All of this makes the uploading of files more efficient so that the new print queue is more efficient.
Q: If my CAM is not connected to a cara printer via WiFi or Ethernet, can I still put files into the queue?	**A:** No. If the CAM is not connected to a cara printer, you cannot use the new "Upload to Printer" functionality in the CAM after you nest a file nor can you transfer files from your print library into your print queue from the interface screens on the printer. If you are not connected, you will have to transfer files from the CAM to your printer using USB sticks and print in the same manner that you have always printed without a network connection.