- <h2>Printer</h2> Connect - Attempts to connect to the specified baud rate and port Add/Subtract X (+/-) - Adds or subtracts value specified in spinbox to the current value of x Add/Subtract Y (+/-) - Adds or subtracts value specified in spinbox to the current value of y Add/Subtract Z - Adds or subtracts value specified in spinbox to the current value of z Baud rate - The measure of the speed of data transmission between two devices <ul> Mini printer - 9600 I3 - 115200   Conductance mode - Sets the sample mode to use conductive touch <ul> Note: you must have started conduction to use this mode   Dimension mode - Circle beside the dimension in the sampling <ul> Disables the dimension and calculates it using resolution and sampling spots   Disconnect - Disconnect from the 3D printer Dwell time - The time in between sampling spots where it sits Pause - Pauses sampling and sends the node to X0 Y0 Z100 Port - Place within an operating system network where connections start and end <ul> Will be named based on the object connected Ex. the mini printer will be called “Original Prusa MINI” Ex the mini printer will be a com port on windows   Resolution - Distance between each

sampling location in either x or y direction Resolution mode - Disables the resolution and calculates it using the dimension and sampling spots Sample time - The amount of time in seconds that the probe will pause after it hits the lower z or detects conduction. Sample z - The position in the z that the program will do sampling at during constant z mode. Used for flat surfaces <ul> For dewaxing, you would use a sample z equal to your start z for a continuous stream.   Set z (sample z) - Sets the sample z to the current z position Sampling spots - The Number of spots the sampling program will do in the respective directions (x and y) Sampling spots mode - This will disable sampling spots, calculating it using resolution and dimensions to the nearest more significant number (ie 3.2 is rounded to 4) Set all - Sets the start position to the current position for each coordinate Set X - Sets the start position to the current position for the x coordinate Set Y - Sets the start position to the current position for the y coordinate Set Z - Sets the start position to the current position for the z coordinate Start position - The start position of the for each coordinate when sampling starts. The program will return to this position between each sampling spot Start run - Starts the sampling program with

the current gcode Step size - The size of each command sent in conductance mode in the z-direction <ul> Note: conductance only triggers a stop after a command has been completed. Larger step size is generally faster.   Stop - Stop the sampling and send the printer to x0 y0 z100 Update - Updates all the ports to check for any new connections XY speed - Speed the sampling moves in the xy position in mm/min Z down speed - The speed the probe will move down during sampling for both conductance and constant z (mm/min) Z up speed - The speed the probe moves up (mm/min) Temperature <ul> Set temperature - Sets the temperature of the extruder and the bed as specified by the respective spinboxes above Bed temperature - Temperature of the bed in Celsius Extruder temperature - Temperature of the extruder hot-end in Celsius   <h2>Conductance</h2> Connect - Connects to the specified baud rate and port. Disconnect - Disconnects the conductance Baud rate - The measure of the speed of data transmission between two devices <ul> Arduino is usually 9600   Port - Place within an operating system network where connections start and end <ul> Mac: port will start with serial connection for name

Windows: will be a COM port   Update - Updates all the ports to check for any new connections Zero at - Zeros the conductance graph at a specific value <ul> I.e. setting the value to 100 99 ->0 100->0 101->1   Threshold - Used in conductance mode to specify the minimum conductance to stop at Start - Starts the conduction graph and resets if needed Stop - Stops the conduction graph Save - Prompts the user to enter a file to save the conductance under <ul> Saved columns Order Time (ms), conductance, x cord, y cord, z cord   Scale - Adjusts the displayed size of the conductance graph <h2>Camera</h2> Connect - Connects to specified camera Disconnect - Disconnects from camera Capture - Starts camera Camera - Select the camera to connect to Refresh rate - The number of times the image on the camera's display is refreshed per second Take photo - Take a photo and label it with the time Start/stop video - Starts and stops video <ul> Saves as <time>.mp4