

How to use the WebControl online interface

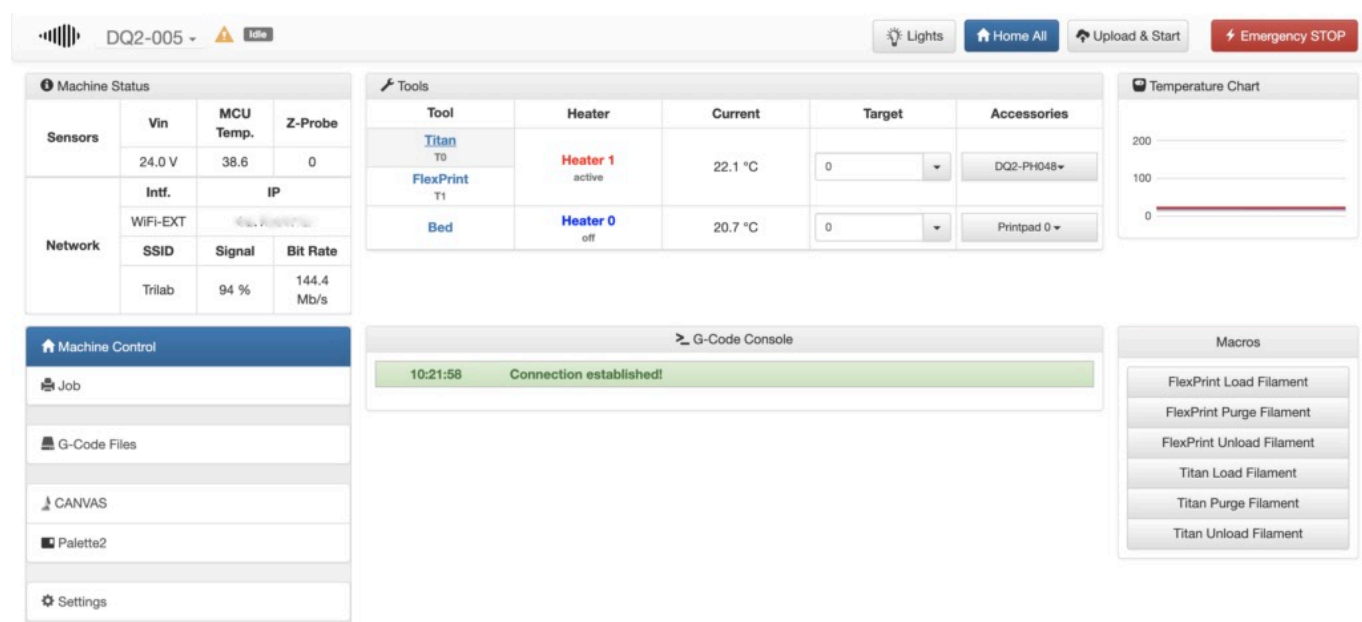
1) Machine control....2) Job....3) G-code files....4) Canvas.....5) Palette....6) Settings....7) Advanced settings

The WebControl Interface offers all of the printer controls conveniently from any browser (we recommend Google Chrome), even on tablet or phone. The interface, however, may vary visually depending on the screen size of the device you are using it from.

You can access the WebControl web interface simply by entering the IP address of the device (found in DeltaControl on the Settings tab) or the printer name (this option must be supported by your network configuration) in the address bar of your web browser. In the case of remote access, a TRILAB service representative will provide you with information on how to connect to the web interface.

The Machine Control tab and common interface elements

The introductory display in the Machine Control tab, will also be used in this manual to describe the individual tabs of the interface. They are common for all parts of the web control.



At the top left of the page, you can see the device name and status next to the TRILAB logo. Clicking on the printer name opens a drop-down list of printers on the same network. This sheet allows you to easily switch between multiple printers and when you select a printer, the web interface opens in a new browser tab. In the upper right part you will find an easy on/off icon for the printer lights (*Lights*), a quick command to go to the home position (*Home All*), a button for a quick upload and start of the

gcode (*Upload & Start*) and a red Emergency STOP button. This button stops the operation immediately, stops the printer from moving, and turns off the pad and printhead heaters. Use it in case of an emergency. Buttons *Home All* a *Upload&Start* are deactivated during printing.

 Lights

 Home All

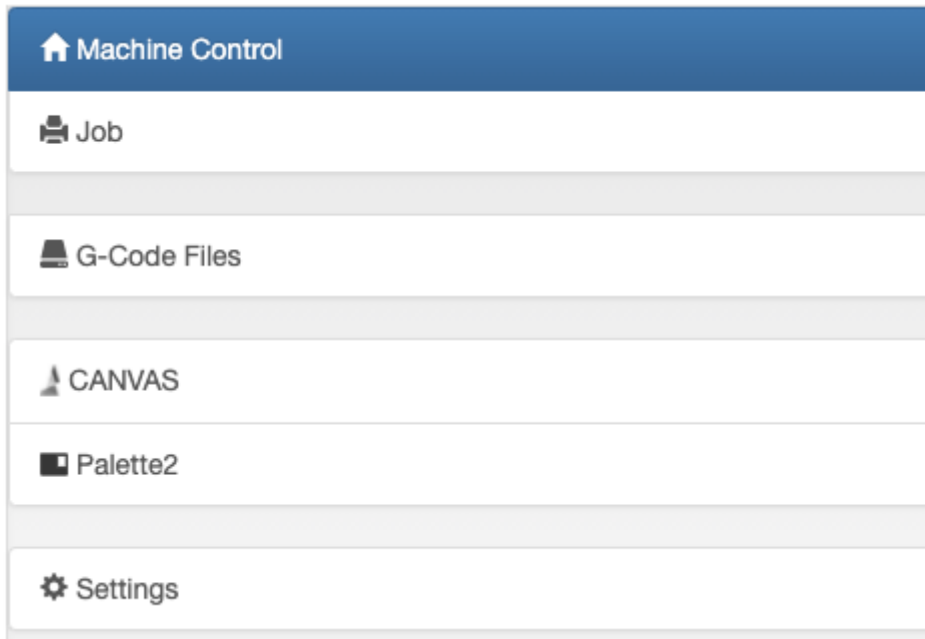
 Upload & Start

 Emergency STOP

The Machine Status tab informs you about the current status of the device. The Sensors section informs you about the voltage provided by the source, the printer’s processor temperature, and the value of the Z-probe. The Network section informs about the network interface used. In addition to the displayed WiFi-EXT value (external Wi-Fi dongle), an internal Wi-Fi card (Wi-Fi) and an external USB Ethernet adapter (LAN) can be used. The device’s IP address, wireless SSID, and other information are also listed here.

Machine Status			
Sensors	Vin	MCU Temp.	Z-Probe
	24.1 V	44.2	1000
Network	Intf.	IP	
	WiFi-EXT	192.168.1.10	
	SSID	Signal	100%
	WiFi	94 %	144.4 Mb/s

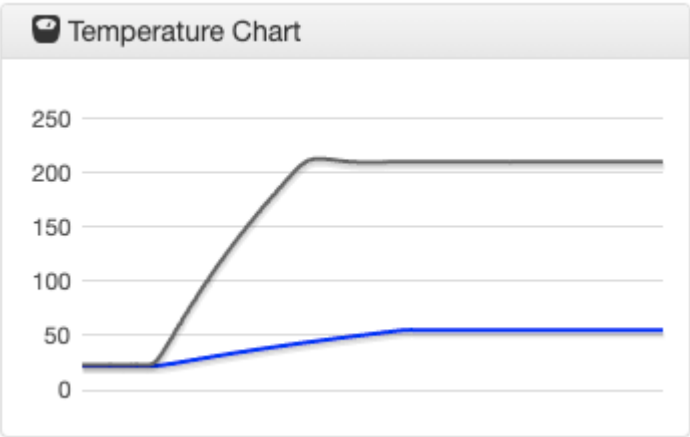
At the bottom left you will find the option to switch between individual pages (or tabs). The current selected page here (Machine Control) is highlighted in blue.



The Tools tab provides an overview of the installed extruders, printhead and pad. It allows you to set the printhead and pad temperature (by selecting from the drop-down menu or entering a value in °C and pressing the Enter key). If you have multiple printheads or print pads, select the plate and printhead you will use from the drop-down menu in the *Accessories* column. After changing any accessory, its stored data like offset, is automatically read and the printer calibrates the next time printing starts. For more information on the new accessories, go to the Settings tab in the Accessories section.

Tools				
Tool	Heater	Current	Target	Accessories
Titan T0	Heater 1 active	22.1 °C	0	DQ2-PH048
FlexPrint T1				
Bed	Heater 0 off	20.8 °C	0	Printpad 0

The historical temperature development (6 minutes) is displayed in the Temperature Chart tab. Here, the print head temperature was set to 210 ° C and the pad temperature to 55 ° C.



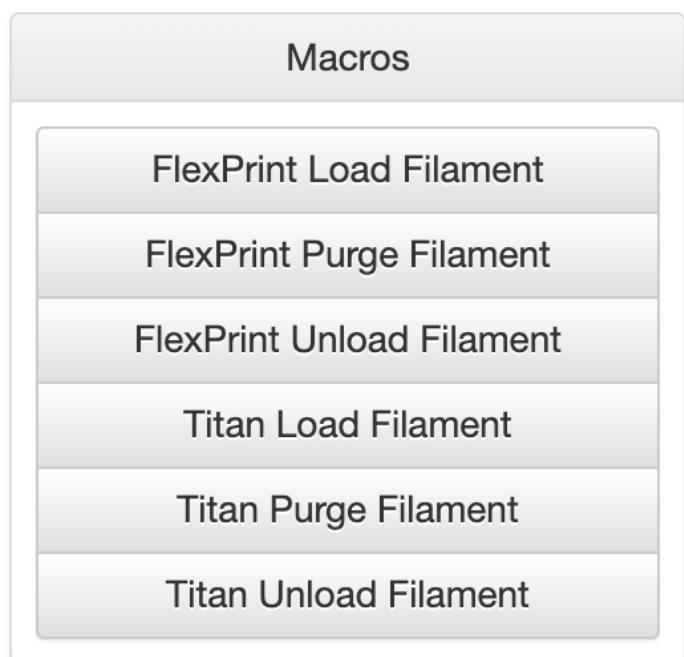
The following is a description of the individual sections of the Machine Control page that is not repeated on other pages.

The G-Code Console tab lists the operations that the printer has performed



The last part is the Macros tab. Macros are usually multi-line sections of G-code that you receive with the printer. Depending on the type of extruder and the activity, you select the correct macro variant. For all macros, the nozzle is first heated to 210 ° C and then operated as described below:

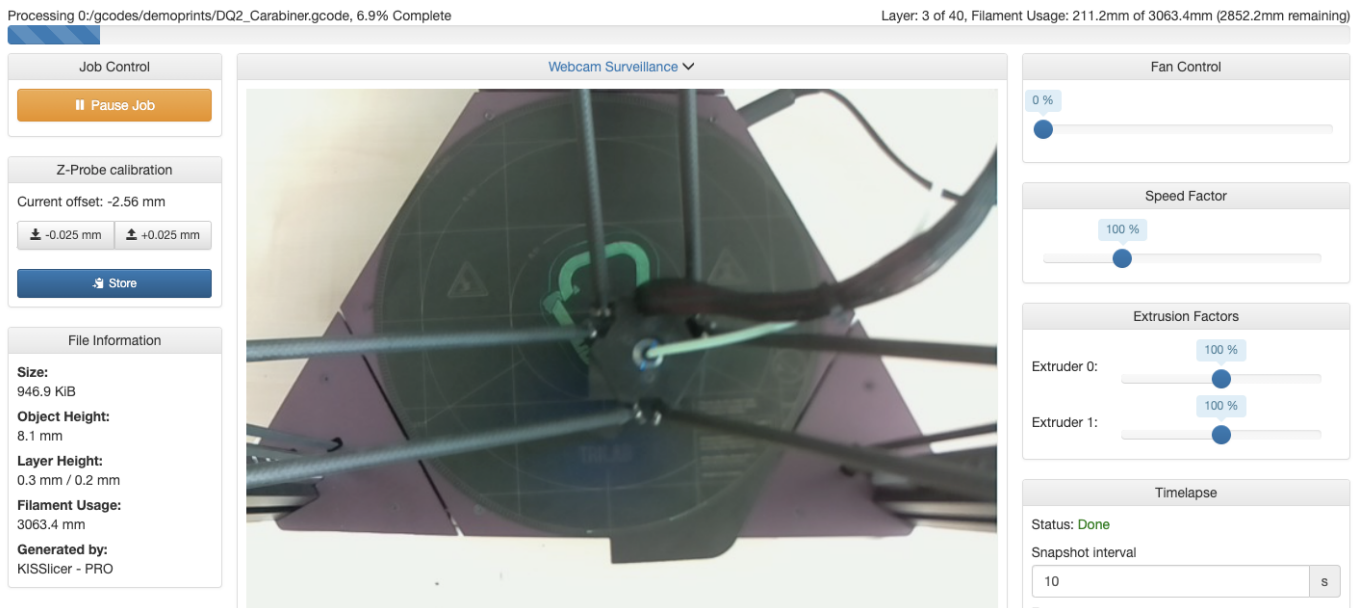
- *FlexPrint Load Filament* – Loads the print string when using the *FlexPrint* extruder.
- *FlexPrint Purge Filament* – Flushes the nozzle with filament to remove any previous material (such as another type or color) when using a *FlexPrint* extruder.
- *FlexPrint Unload Filament* – Prepares the print string for removal when using a *FlexPrint* extruder.
- *Titan Load Filament* – Loads the print string when using the Titan extruder
- *Titan Purge Filament* – Flushes the nozzle with filament to remove any previous material (such as another type or paint) when using a Titan extruder.
- *Titan Unload Filament* – Prepares the print string for removal when using a Titan extruder.



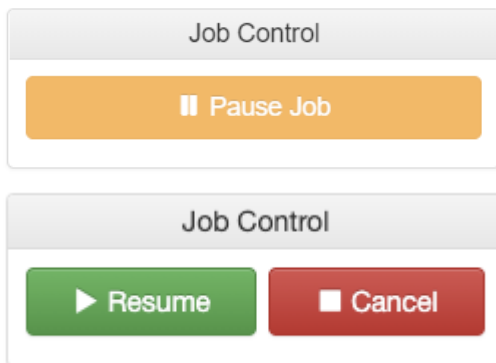
Caution: For loading material with melting temperature higher than 210°C, set the temperature manually and then press the command.

Job Status tab

The next page shows the current print and its details. Here the manual no longer describes the common elements or the tabs of the interface described in the previous section.



The Job Control tab offers the ability to pause or cancel a job in progress. When paused, printing can be later resumed again or cancel printing completely.



In the Z-Probe calibration tab, you can adjust the offset value (additional distance offset) of the print head from the pad and save its value for subsequent prints with the *Store* button. This functionality is the same as in DeltaControl. If you do not confirm the changed offset with the *Store* button, it will only apply to the current print. Use minus values to decrease the distance between the nozzle and the PrintPad. Conversely, use plus values to increase this offset.

Caution: You have absolute control over the printer when decreasing the offset value, so be very careful. We recommend using values -0.05 and -0.01 mm

Warning: Always monitor the printer when adjusting the offset. Never perform this operation remotely (from another room) or rely on another person's word or observations.

Z-Probe calibration

Current offset:

-2.56 mm



+0.01 mm

+0.05 mm

+0.10 mm

+0.50 mm



-0.50mm

-0.10mm

-0.05mm

-0.01mm



Store

The File Information tab offers information about the printed object – file size, object height, height of the first layer/height of other layers, total filament consumption and information about the software, which generated the Gcode.

File Information

Size:

946.9 KiB

Object Height:

8.1 mm

Layer Height:

0.3 mm / 0.2 mm

Filament Usage:

3063.4 mm

Generated by:

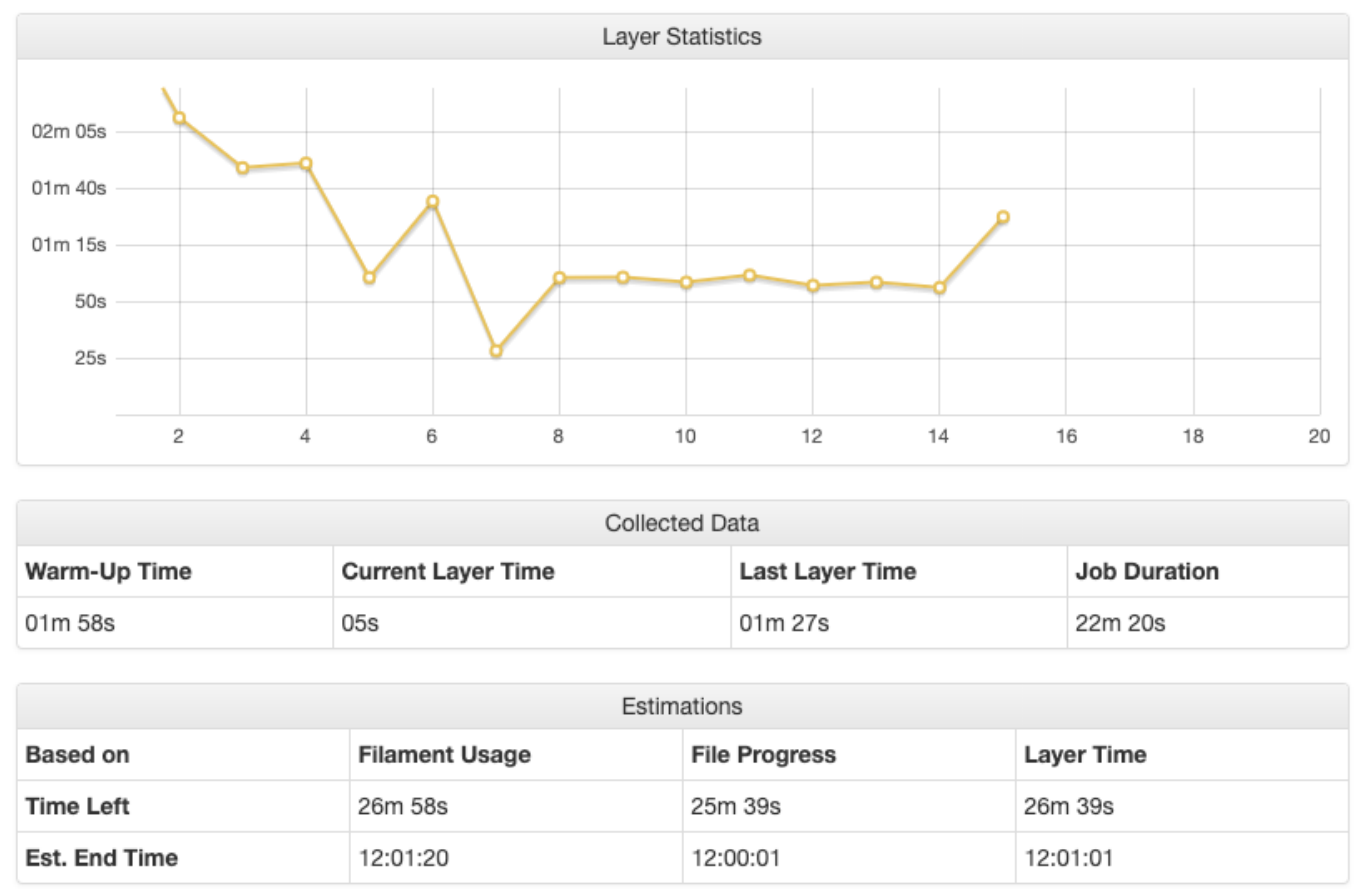
KISSlicer - PRO

The largest part of this page is occupied by the Webcam Surveillance tab with the live camera located at the top of the printer. This camera is focused on the plane level of the PrintPad and serves primarily as print surveillance. In addition to the built-in webcam, there is the option to connect an external webcam and after turning the printer off and on, the image from the newly connected camera will be loaded. After connecting an external camera, you cannot switch to the image of the built-in internal camera.

Webcam Surveillance ▼



The other tabs show statistics for the current print. Layer statistics show the time spent on individual layers. The tab Collected Data indicates the values of heating time, time of the current layer, time of the previous layer and printing duration. The Estimations tab shows the estimated printing time.



On the far right, you will find tabs for manual fan control (*Fan Control*), print speed (*speed factor*) and extrusion factors (*Extrusion Factor*). Extruder 0 stands for Titan extruder (rigid materials) and Extruder 1 stands for FlexPrint extruder (flexible materials). We recommend that you do not change these settings and let them be controlled by the software that is preparing the print data.

Fan Control

100 %

Speed Factor

100 %

Extrusion Factors

Extruder 0:

100 %

Extruder 1:

100 %

The last part is the Timelapse tab, which records videos in a time-lapse format. Before recording, the *Status* item must have *Ready* written in green. The *Snapshot interval* row is used to set the snapshot frequency. The next row, *Frame rate*, sets the frame rate in the video. The last command, *Post roll*, specifies the recording time after the print job is completed. Use the *Start recording* button to start recording.

The created video is stored on the printer's memory card and its capacity allows for 3-day recording (72 hours) straight. You don't have to worry about the recording stopping during printing due to a full memory card.

Timelapse

Status: **Ready**

Snapshot interval

10

s

Frame rate

25

fps

Post roll

10

s

⦿ Start recording

When the recording is completed, the status changes to the orange text *Rendering*. During this time, the time-lapse is being prepared for download. The green status *Done* indicates that the video is ready for download using the *Download record* button.

Timelapse

Status: **Done**

Snapshot interval

10

s

Frame rate

25

fps

Post roll

10

s

⦿ Start recording

↓ Download record

To start a new recording, select *Start recording* and a window will appear notifying you that after confirming with the Yes button, the previous video will be overwritten by the new time-lapse.

ⓘ Start recording

×

Starting a new record will overwrite the previous record. Do you want to continue ?

✓ Yes

✗ No

G-Code Files tab

Here you will find the print data files stored in the printer's memory along with other details. Click on the file name to start printing the selected file (the printer will ask for confirmation). Right-clicking on a file brings up a context menu (to rename a file for example). The buttons at the top right are used to upload a file from a computer (*Upload G-Code Files*) and to create a directory (*Make new Directory*).

SD Card ▾		G-Codes Directory / demoprints		Go Up	Upload G-Code File(s)	Make new Directory
☐ File Name ⓘ	Size	Last modified	Object Height	Layer Height	Filament Usage	Generated by
☐ DQ2_3DBenchy_27092018.gcode	2.5 MiB	23. 7. 2020 15:04:04	48.1 mm	0.3 / 0.2 mm	3766.2 mm	KISSlicer - PRO
☐ DQ2_50x50mm_plate.gcode	100.8 KiB	11. 12. 2019 16:12:26	2.1 mm	0.3 / 0.2 mm	1677.5 mm	KISSlicer - PRO
☐ DQ2_Carabiner.gcode	946.9 KiB	14. 1. 2020 13:19:01	8.1 mm	0.3 / 0.2 mm	3063.4 mm	KISSlicer - PRO
☐ DQ2_PLA_Little_Box_Pen_Holder.gcode	22.8 MiB	28. 7. 2020 10:15:23	80.1 mm	0.3 / 0.2 mm	40803.7 mm	KISSlicer - FREE
☐ DQ2L_HighHeel LAST.gcode	13.3 MiB	4. 9. 2020 10:35:15	225.9 mm	0.3 / 0.2 mm	40023.3 mm	KISSlicer - PRO

While the file is being uploaded, a window with the upload details will appear.

Uploading File(s), 48% Complete (481.7 KiB/s)

Please wait while the following files are being uploaded:

Filename	Size	Progress
 DQ2_Astronaut_Phil_A_Ment.gcode	3.7 MiB	48 %

✕ Cancel Upload(s)

After uploading the file to the printer's memory, a window with the confirmation will appear.

Upload Complete!



Filename	Size	Progress
✓ DQ2_50x50mm_plate.gcode	100.8 KiB	100 %

✓ Close

CANVAS tab

This card is used to connect to the CANVAS account, which is required to use the TRILAB QuadPrint extension (CANVAS HUB is part of the Mosaic Palette 2 device control).

CANVAS	Linked Accounts
Connection Status: Not Connected	
Username/Email:	Manage Hub Accounts
Password:	
Link a CANVAS Account	
Don't have an account?	

After filling in your username and password and clicking on the *Link and CANVAS Account* button, the Canvas account and the printer will connect and the status *Connected* with a list of linked accounts will be displayed in green text.

CANVAS	Linked Accounts
Connection Status: Connected	•  • 
Username/Email:	Manage Hub Accounts
Password:	
Link a CANVAS Account	
Don't have an account?	

Palette 2 tab

This page shows the status of the attached extension as a Mosaic Palette 2 for multi-filament printing.

Info
• Connection: Disconnected • Status: <i>No ongoing Palette 2 print</i> • Current Splice: 0 / 0 Splices • Filament Used: 0.00m • Latest Ping: Ping 0 --- % • Latest Pong: Pong 0 --- %

When the device is connected, the status *Connected* is displayed in green text. During printing, the current details of the current print job are then displayed.

Info

- **Connection:** **Connected**
- **Status:** *Print started: preparing splices*
- **Current Splice:** 2 / 5 Splices
- **Filament Used:** 2.43m
- **Latest Ping:** Ping 2 --- 100.52%
- **Latest Pong:** Pong 1 --- 100.17%

Settings tab

You'll find several printer settings and web control. This page is divided into five sections.

The first tab is for General, where you can check the printer firmware for updates (*check for updates*), change the Device name (*Name*), set a password to access the Web interface (*Access password*), and set the intensity (*Brightness*) at which the printer light should switch on and when it should switch off (*Timeout*).

If there are any updates available, a confirmation window will appear.

Update Available

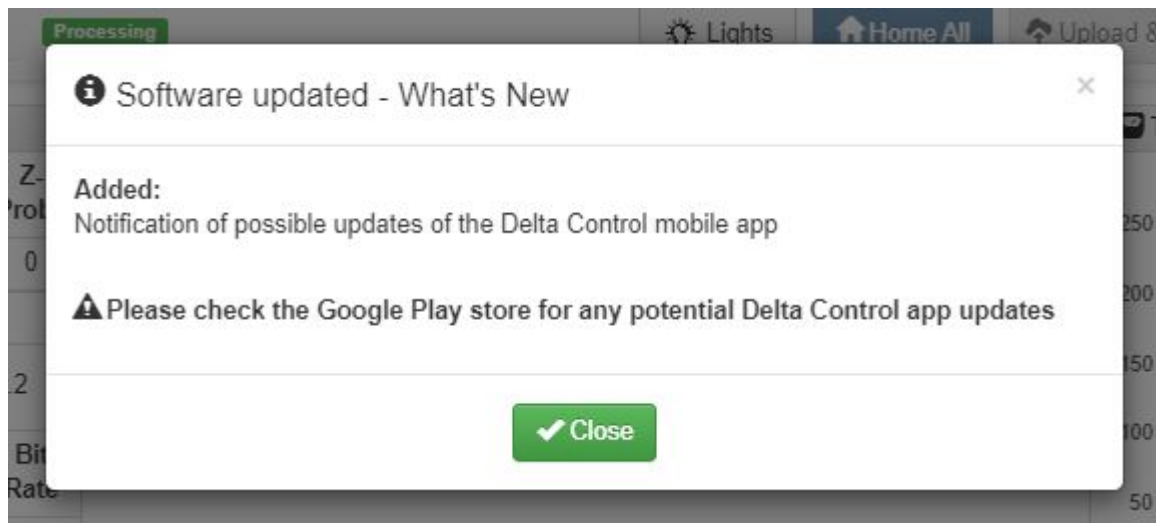


A new software version is available, would you like to update your 3D printer ?

 Yes

 No

After pressing the Yes button, the update will start downloading, the status LED will turn yellow and after a successful update the LED will turn green. After successful update installation a window with list of changes appears. Do not forget to check application updates too.



In addition, there is a check box to enable *Enable advanced features* (*Enable advanced features*). For more information, go to the Advanced Settings section.

The second tab (Network) allows you to set up the network access. The *Mode* option allows you to switch (Modes) between the *Access point* mode (when no usable known Wi-Fi is in range, the printer switches to that mode temporarily) and the standard *Auto* mode, in which the printer can connect to an existing network with a specified *SSID* and password (*Password*). The last part of the Access point is used to name the printer network in the access point mode and set the password).

General

Network

Accessories

Slicers profiles

Statistics

WiFi

Country:

Czech Republic

Mode:

Auto

Client

SSID:

Trilab

Password:

.....

Access point

SSID:

DQ2-005

Password:

.....

Confirm Password:

.....

Be sure to save any changes to the settings by clicking the *Apply Settings* button.

The third part of the setup shows the Accessories options, where you set and manage printheads and print pads. If you purchase a new printhead or pad, you will receive a configuration file for the accessory via email. To add a new accessory, upload the configuration file via the green + (plus) button. Name it accordingly and save it with the Save button. If you need to remove an accessory, use the red - (minus) button.

General
Network
Accessories
Slicers profiles
Statistics

Printhead editor

Select printhead:

Printhead 0 ▾
+
-

Edit name:

Printhead 0

Details:

config-head-default.g

Manufacturer: TriLAB
Hot End: E3D V6
Heat Break: Full Metal
Heater Block: Alu Standard
Nozzle Type: Brass

Printpad editor

Select printpad:

Printpad 0 ▾
+
-

Edit name:

Printpad 0

Details:

config-pad-default.g

Manufacturer: TriLAB
Surface: Smooth PEI

Save

When a new accessory is added a zero offset value is automatically set for that given printhead and pad combination. It is therefore necessary to set a new value of Z offset, ideally on the dem print DQ2_50x50mm_plate.gcode. For more information on setting up the first layer, see [Setting up the first layer](#).

The fourth section deals with profiles for matching programs. You can currently download KISSlicer 1.6.3 and PrusaSlicer 2.3.0 and its profiles for your printer [here](#). Mosaic CANVAS is an online slicer and button *Download* will redirect you to web interface. The downloaded programs work both on OS Windows and MAC OS.

General
Network
Accessories
Slicers profiles
Statistics

KISSlicer 1.6.3

KISS - Keep It Simple Slicer !
KISSlicer is a powerful, easy-to-use, and fast cross-platform app that slices STL files into printer-ready G-code files.



Download

Use the button above to download the complete KISSlicer package, including slicer profiles. After downloading, unzip the archive to the destination location. On the Windows platform, run the "KISSlicer64.exe" program, on the MacOS platform, first run the "DownloadAndRunKISS.command" script. This will download and configure all necessary components. Subsequently, you can simply use the "KISSlicer.app" as usual. If you move the program to another location, simply run the "DownloadAndRunKISS.command" script again to make sure the app is properly configured. Your profiles will not be affected.

PrusaSlicer 2.3.0

PrusaSlicer
PrusaSlicer is an open-source, feature-rich, frequently updated tool that contains everything you need to export the perfect print files.



Download

Use the button above to download the complete PrusaSlicer package, including slicer profiles. After downloading, unzip the archive to the destination location. On the Windows platform run the "prusa-slicer.exe" program, on the MacOS platform run "PrusaSlicer.app". After starting the program, the configuration wizard will appear. On the Prusa FFF tab, clear the predefined printers. Continue to the Other Vendors tab. Check the TRILAB box here. Then go to the TRILAB FFF tab below. Select your printer from the list of printer variants here. Then press the Finish button in the lower right corner of the window. This makes the slicer ready to use !

Mosaic CANVAS

CANVAS
A Modern Software Experience with a simplified interface, easy printer profile setup, and a streamlined flow for multi-material 3D printing.



Download

Use the button above to redirect to the CANVAS cloud slicer, where you will see a wizard for importing print profiles. In the wizard, select the "Create new printer" option and then select all print styles to import. To complete the import, click the Import button in the lower right corner of the window.

Click the *Download* button to download the file. After downloading, extract the entire folder to the destination directory.

KISSlicer 1.6.3

If you are using Windows, just run the program via the “KISSlicer64.exe” file.

If you are using MAC OS, you must run the “DownloadAndRunKISS.command” script, which will download and configure all necessary attributes. Then you run the program classically via its icon. If you move the program elsewhere, you must run the “DownloadAndRunKISS.command” script again. However, this will not affect your profiles.

PrusaSlicer 2.3.0

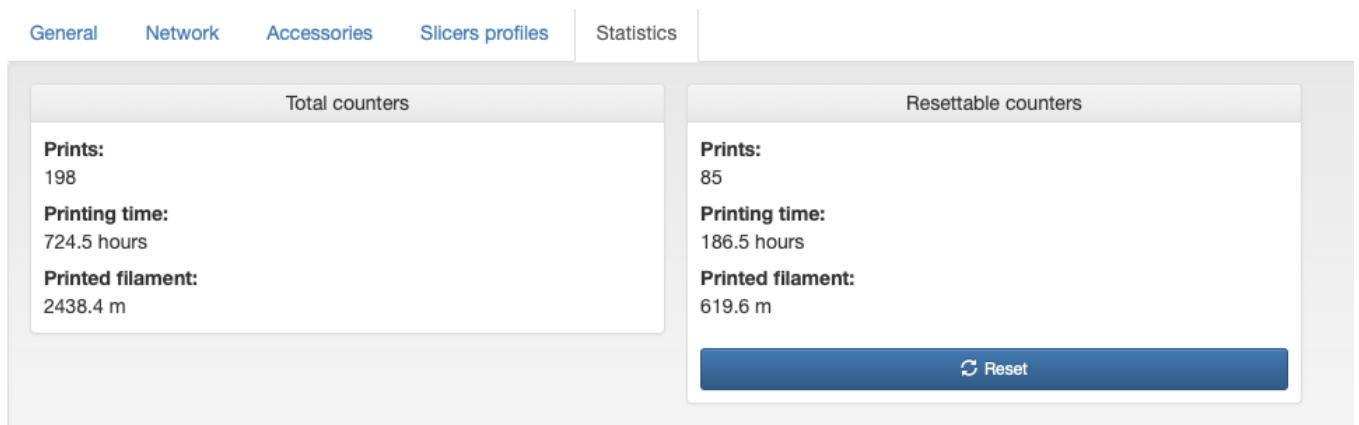
If you are using OS Windows, just run the program via the “prusa-slicer.exe”. Na MacOS run the “PrusaSlicer.app”.

After starting the program, the configuration wizard will appear. On the Prusa FFF tab, clear the predefined printers. Continue to the Other Vendors tab. Check the TRILAB box here. Then go to the TRILAB FFF tab below. Select your printer from the list of printer variants here. Then press the Finish button in the lower right corner of the window. This makes the slicer ready to use.

Mosaic CANVAS

In the wizard, select the “Create new printer” option and then select all print styles to import. To complete the import, click the Import button in the lower right corner of the window.

In the last section, Statistics, there are statistics counters. The left window shows an overview from the beginning, while the right window shows statistics from the last reset.



Advanced settings

Warning: Unless you are an advanced user or instructed by a Trilab technician, we do not recommend doing anything with any of the following settings!

If you select the *Enable advanced features* check box on the Settings tab, you will see the advanced

settings options.

General

Network

Accessories

Slicers profiles

Statistics

Printer

Name:

DQ2-005

☒ Enable advanced features

Access password

☐ Enable password control

Username:

trilab

Password:

Confirm Password:

Light

Timeout:

☒ Enable

300

s

Brightness:

100 %

In the standard view, the *Head Position* item is added to the Machine Status tab.

Machine Status			
Head Position	X	Y	Z
	n/a	n/a	n/a
Sensors	Vin	MCU Temp.	Z-Probe
	24.0 V	42.2	0
Network	Intf.	IP	
	WiFi-EXT	10.0.0.5	
	SSID	Signal	Bit Rate
	Trilab	72 %	144.4 Mb/s

On the Machine Control tab, a command line is available for sending G-Code commands using the *Send* or *Enter* key.

G-Code Console

? Send G-Code...
Send
Clear Log
Download as ▾

15:54:41 Connection established!

15:54:41 Page Load complete!

The newly displayed Advanced Control tab has options like *Head movement*, and for controlling the extruder, there are items for the amount of extruded material (*Feed amount*) and the extrusion speed (*Feedrate*). Conversely, if you need to retract the filament, select *Retract* instead of the *Extrude* button.

- Machine Control
- Advanced Control
- Job
- Macros
- G-Code Files
- CANVAS
- Palette2
- Settings

Home All
Head Movement

← X-100	← X-50	← X-10	← X-1	← X-0.1	X+0.1 →	X+1 →	X+10 →	X+50 →	X+100 →
← Y-100	← Y-50	← Y-10	← Y-1	← Y-0.1	Y+0.1 →	Y+1 →	Y+10 →	Y+50 →	Y+100 →
← Z-50	← Z-25	← Z-5	← Z-0.5	← Z-0.05	Z+0.05 →	Z+0.5 →	Z+5 →	Z+25 →	Z+50 →

⚠ The following axes are not homed: X, Y, Z

Extruder Control

Feed amount in mm:

10050201051

Feedrate in mm/sec:

60301551

↑ Retract
↓ Extrude

The last advanced settings have been made available on the Macros tab, where the configuration files of the individual preset macros are located.

Macros Directory		Go Up		Upload Macro File(s)	Make new... ▾
☐	File Name	Size	Last modified		
☐	FlexPrint Load Filament.g	317 B	26. 10. 2020 15:09:17		
☐	FlexPrint Purge Filament.g	307 B	26. 10. 2020 15:09:18		
☐	FlexPrint Unload Filament.g	357 B	26. 10. 2020 15:09:19		
☐	Titan Load Filament.g	353 B	26. 10. 2020 15:09:20		
☐	Titan Purge Filament.g	307 B	26. 10. 2020 15:09:21		
☐	Titan Unload Filament.g	334 B	26. 10. 2020 15:09:22		