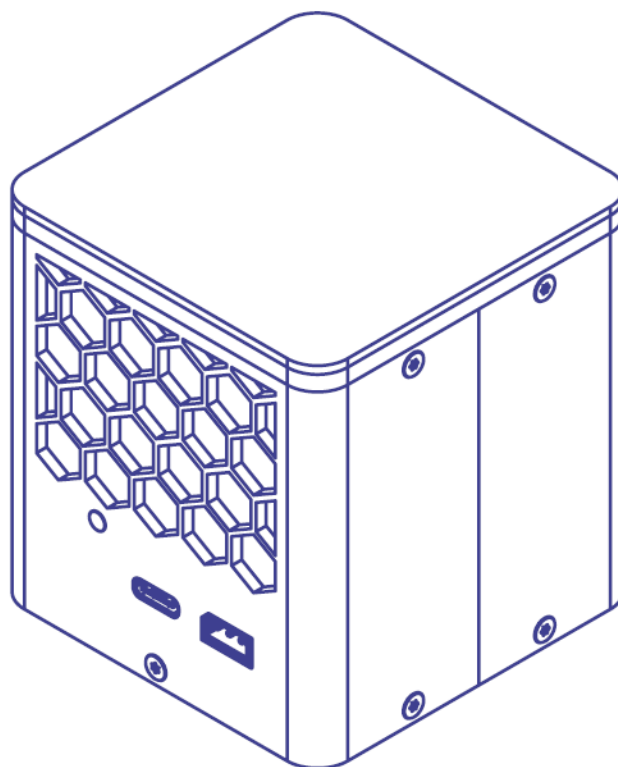
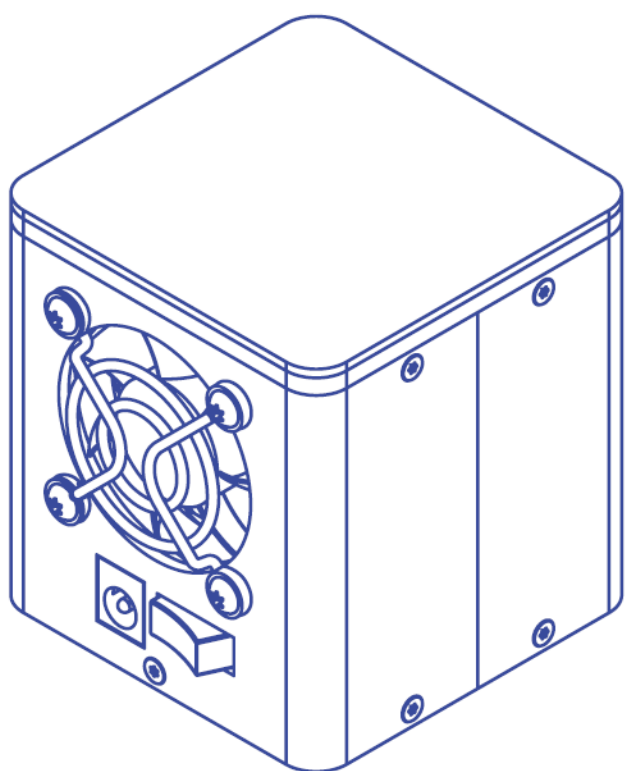




PELTIER STAGE

USER MANUAL

Manual version: 1.0.0
Product code: T3100
Product Version: 1.0
Firmware Version: 1.0.x
Software Version: 1.0.x



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1. EU Declaration of Conformity

We

Company Name: Ossila BV

Postal Address: Biopartner 3 building, Galileiweg 8

Postcode: 2333 BD Leiden

Country: The Netherlands

Telephone number: +31 (0)718 081020

Email Address: info@ossila.com

declare that the DoC is issued under our sole responsibility and belongs to the following product:

Product: Peltier Stage (T3100A1)

Serial number: T3100A1- xxxx

Object of declaration:

Peltier Stage (T3100A1)

The object of declaration described above is in conformity with the relevant Union harmonisation legislation:

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

Signed:



Name: Dr James Kingsley

Place: Leiden

Date: 21/09/2026

Декларация за съответствие на ЕС

Производител: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Декларира с цялата си отговорност, че посоченото оборудване съответства на приложимото законодателство на ЕС за хармонизиране, посочено на предходната(-ите) страница(-и) на настоящия документ.

[Čeština] Prohlášení o shodě EU

Výrobce: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Prohlašujeme na vlastní odpovědnost, že uvedené zařízení je v souladu s příslušnými harmonizačními předpisy EU uvedenými na předchozích stranách tohoto dokumentu.

[Dansk] EU-overensstemme Iseserklæring

Producent: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Erklærer herved, at vi alene er ansvarlige for, at det nævnte udstyr er i overensstemmelse med den relevante EU-harmoniseringslovgivning, der er anført på den/de foregående side(r) i dette dokument.

[Deutsch] EU-Konformitätserklärung

Hersteller: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Wir erklären in alleiniger Verantwortung, dass das aufgeführte Gerät konform mit der relevanten EU-Harmonisierungsgesetzgebung auf den vorangegangenen Seiten dieses Dokuments ist.

[Eesti keel] ELi vastavusavaldus

Tootja: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Kinnitame oma ainuvastutust, et loetletud seadmed on kooskõlas antud dokumendi eelmisel leheküljel / eelmistel lehekülgedel ära toodud asjaomaste ELi ühtlustamise õigusaktidega.

[Ελληνικά] Δήλωση πιστότητας ΕΕ

Κατασκευαστής: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Δηλώνουμε υπεύθυνα ότι ο αναφερόμενος εξοπλισμός συμμορφώνεται με τη σχετική νομοθεσία εναρμόνισης της ΕΕ που υπάρχει στις προηγούμενες σελίδες του παρόντος εγγράφου.

[Español] Declaración de conformidad UE

Fabricante: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Declaramos bajo nuestra única responsabilidad que el siguiente producto se ajusta a la pertinente legislación de armonización de la UE enumerada en las páginas anteriores de este documento.

[Français] Déclaration de conformité UE

Fabricant: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Déclarons sous notre seule responsabilité que le matériel mentionné est conforme à la législation en vigueur de l'UE présentée sur la/les page(s) précédente(s) de ce document.

[Hrvatski] E.U izjava o sukladnosti

Proizvođač: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Izjavljujemo na vlastitu odgovornost da je navedena oprema sukladna s mjerodavnim zakonodavstvom EU-a o usklađivanju koje je navedeno na prethodnoj(nim) stranici(ama) ovoga dokumenta.

[Italiano] Dichiarazione di conformità UE

Produttore: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Si dichiara sotto la propria personale responsabilità che l'apparecchiatura in elenco è conforme alla normativa di armonizzazione UE rilevante indicata nelle pagine precedenti del presente documento.

[Latviešu] ES atbilstības deklarācija

Ražotājs: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Ar pilnu atbildību paziņojam, ka uzskaitītais aprīkojums atbilst attiecīgajiem ES saskaņošanas tiesību aktiem, kas minēti iepriekšējās šī dokumenta lapās.

[Lietuvių k.] ES atitikties deklaracija

Gamintojas: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

atsakingai pareiškia, kad išvardinta įranga atitinka aktualius ES harmonizavimo teisės aktus, nurodytus ankstesniuose šio dokumento

[Magyar] EU-s megfelelőségi nyilatkozat

Gyártó: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

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[Nederlands] EU-Conformiteitsverklaring

Fabrikant: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Verklaart onder onze uitsluitende verantwoordelijkheid dat de vermelde apparatuur in overeenstemming is met de relevante harmonisatiewetgeving van de EU op de vorige pagina('s) van dit document.

[Norsk] EU-samsvarserklæring

Produsent: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Erklærer under vårt eneansvar at utstyret oppført er i overholdelse med relevant EU-harmoniseringslovverk som står på de(n) forrige siden(e) i dette dokumentet.

[Polski] Deklaracja zgodności Unii Europejskiej

Producent: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Oświadczamy na własną odpowiedzialność, że podane urządzenie jest zgodne ze stosownymi przepisami harmonizacyjnymi Unii Europejskiej, które przedstawiono na poprzednich stronach niniejszego dokumentu.

[Por tuguês] Declaração de Conformidade UE

Fabricante: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Declara sob sua exclusiva responsabilidade que o equipamento indicado está em conformidade com a legislação de harmonização relevante da UE mencionada na(s) página(s) anterior(es) deste documento.

[Română] Declarație de conformitate UE

Producător: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Declară pe proprie răspundere că echipamentul prezentat este în conformitate cu prevederile legislației UE de armonizare aplicabile prezentate la pagina/paginile anterioare a/ale acestui document.

[Slovensky] Vyhlásenie o zhode pre EÚ

Výrobca: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Na vlastnú zodpovednosť prehlasuje, že uvedené zariadenie je v súlade s príslušnými právnymi predpismi EÚ o harmonizácii uvedenými na predchádzajúcich stranách tohto dokumentu.

[Slovenščina] Izjava EU o skladnosti

Proizvajalec: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

s polno odgovornostjo izjavlja, da je navedena oprema skladna z veljavno uskladitveno zakonodajo EU, navedeno na prejšnji strani/prejšnjih straneh tega dokumenta.

[Suomi] EU-vaatimusten mukaisuusvakuutus

Valmistaja: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Vakuutamme täten olevamme yksin vastuussa siitä, että tässä asiakirjassa luetellut laitteet ovat tämän asiakirjan sivuilla edellisillä sivuilla kuvattujen olennaisten yhdenmukaistamista koskevien EU-säädösten vaatimusten mukaisia.

[Svenska] EU-försäkran om överensstämmelse

Tillverkare: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Vi intygar härmed att den utrustning som förtecknas överensstämmer med relevanta förordningar gällande EU-harmonisering som finns på föregående sidor i detta dokument.

2. Safety

2.1 Warning

- Do NOT connect a power supply to the device's USB port. It should only be connected to the USB port of a PC using a USB-C cable.
- Do NOT connect to the device any power adapter other than the 24VDC 3.75A power adaptor provided by Ossila.
- The stage can reach temperatures up to 110°C, which can result in severe burns upon skin contact. Use with caution.
- Users are recommended to leave clear at least 1m of space above and 30cm surrounding the device to reduce the possibility of the fire spreading.

2.2 Use of Equipment

The Ossila Peltier Stage is designed to be used as instructed. It is intended for use under the following conditions:

- Indoors in a laboratory environment (Pollution Degree 2)
- Altitudes up to 2000m
- Ambient temperatures of 5°C to 40°C; maximum relative humidity of 80% up to 31°C.

The unit is supplied with a 24 VDC power adapter, in accordance with European Commission regulations and British Standards. Use of any other electrical power cables, adaptors, or transformers is not recommended.

2.3 Hot Stage



The peltier stage can reach temperatures as high as 110°C. When the temperature is above 60°C, extreme care should be taken not to touch the stage when placing and removing substrates to avoid burns. The LED indicator will turn solid red when the stage is above 40°C, and flashing red when above 60°C.

2.4 Fire Hazard



Risk assessments should consider potential fire hazards when heating solvents to high temperatures. Many common solvents have a flash point below 110°C, leading to the risk of ignition. Users should ensure that no ignition sources are placed close to the peltier stage. Users are recommended to leave clear at least 1m of space above and 30cm surrounding the device to reduce the possibility of the fire spreading.

2.5 Servicing

If servicing is required, please return the unit to Ossila Ltd. The warranty will be invalidated if:

- Modification or service has been carried out by anyone other than an Ossila engineer.
- The Unit has been subjected to chemical damage through improper use.
- The Unit has been operated outside the usage parameters stated in the user documentation associated with the Unit.
- The Unit has been rendered inoperable through accident, misuse, contamination, improper maintenance, modification, or other external causes.

3. Maintenance

- Clean the stage with a lint-free wipe dampened with IPA, at room temperature and unplugged.
- Never pour or spray solvent onto the stage to avoid liquid reaching the internal electronics.
- Do not polish or use abrasives on the stage.
- After running the stage at low temperatures, disable the driver but keep the fan running for a few minutes to avoid condensation collecting on the heatsink. Wipe condensation off of the stage surface.

4. Requirements

Table 4.1 details the requirements for the Peltier Stage, and the minimum computer specifications for the software.

Table 4.1. Ossila Peltier Stage requirements.

Power	24VDC 3.75A power adaptor (provided with the device)
Connectivity	USB-C 2.0
Operating System	Windows 11 (64-bit)
CPU	Dual Core 2 GHz
RAM	4 GB
Available Hard Drive Space	184 MB
Monitor Resolution	1440 x 960

5. Unpacking

5.1 Packing List

The standard items included with the Ossila Peltier Stage are:

- The Ossila Peltier Stage.
- 24VDC 3.75A power adaptor.
- USB-A to USB-C cable.
- USB memory stick containing the user manual and Peltier Stage Console software installer.



Figure 5.1. Ossila Peltier Stage.

5.2 Damage Inspection

Examine the components for evidence of shipping damage. If damage has occurred, please contact Ossila directly for further action. The shipping packaging will come with a shock indicator to show if there has been any mishandling of the package during transportation.

6. Specifications

The Ossila Peltier Stage specifications are shown in **Table 6.1**.

Table 6.1. Ossila Peltier Stage specifications.

Temperature Range*	0°C – 110°C
Temperature Reading Accuracy	± 0.25°C
Temperature Reading Resolution	0.0625°C
Temperature Control	Closed-loop on-off
Stage Surface	Copper, 64 mm x 64 mm (2.52" x 2.52")
Connectivity	USB-C
Dimensions (L x W x H)	64 mm x 68 mm x 69 mm (2.52" x 2.68" x 2.72")
Weight	325 g (11.5 oz)

* Measured at 25°C ambient temperature with no thermal load.

7. Installation

1. Connect the 24 VDC power adaptor to the power socket.
2. Connect the unit to your PC using the provided USB-C cable.

8. Operation

With the device connected to the provided power supply, it is powered on using the switch on the side with the fan. When the system is first powered on, the peltier will be disabled, the setpoint will be 25°C, the margin will be 0.5°C, and the ramp time will be 2000ms.

The device is controlled with our Ossila Peltier Stage Console software (detailed in **Section 8.1**) or using the serial command library (detailed in **Section 8.2**). The device connects to a computer using the USB-C port located on the face with the hexagonal grid.

If any faults are detected, the peltier driver will immediately disable and the fault will latch. The fault will unlatch when the driver is re-enabled using the software or by sending either the `<enable 1>` or `<clear-fault>` command.

The colour of the indicator light specifies the temperature range of the stage or any faults that have occurred, as listed in **Table 8.1**.

Table 8.1. Indicator light meaning.

Indicator Light Colour	Meaning
Flashing blue	Stage temperature less than 0°C
Solid blue	Stage temperature between 0°C and 15°C
Solid green	Stage temperature between 15°C and 40°C
Solid red	Stage temperature between 40°C and 60°C
Flashing red	Stage temperature more than 60°C
Flashing magenta	Overtemperature fault, stage temperature more than 120°C
Solid magenta	Driver fault
Flashing yellow	Fan fault
Solid yellow	Sensor fault

8.1 Peltier Stage Console

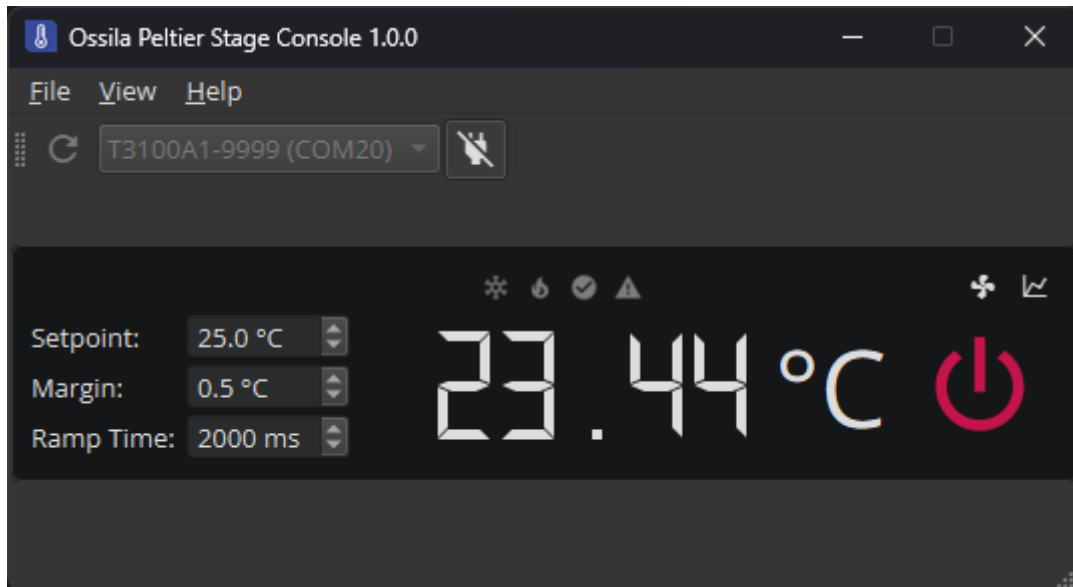


Figure 8.1. Ossila Peltier Stage Console Software.

Ossila provides free software to allow for simple use of the peltier stage. A Windows installer is provided on the USB drive supplied with the device, and it can also be downloaded from our website at <http://www.ossila.com/pages/software-drivers>.

To install the software, run the installer and follow the on-screen instructions.

8.1.1 Connection Tool Bar

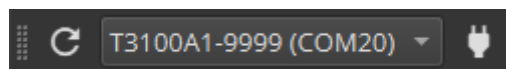


Figure 8.2. Peltier Stage Console connection tool bar.

To search for connected Ossila Peltier Stages, click the  button. Selecting a peltier stage. The drop-down box lists the serial numbers and addresses of any connected Ossila Peltier Stages. Selecting a peltier stage and clicking the  button will connect to it.

8.1.2 Console

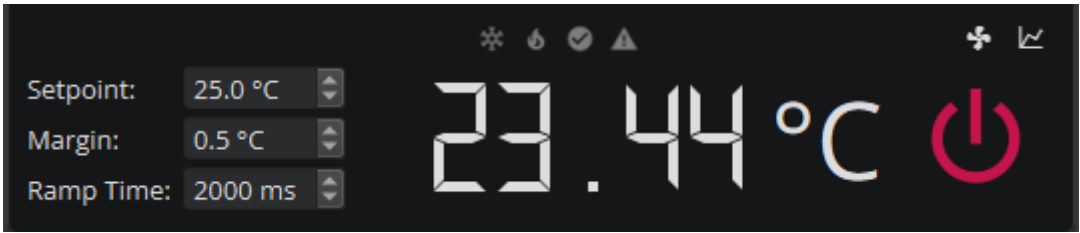


Figure 8.3. Peltier Stage Console controls.

The console displays the live temperature reading of the stage, averaged over two sensors on opposite corners of the stage. The controls are described below:

Setpoint	The target temperature of the peltier stage.
Margin	The threshold for the temperature in to be considered reached.
Ramp Time	The time taken to ramp to full power when the peltier driver switches direction.
	Enable peltier driver button. Red means the driver is disabled, green means driver enabled.
	Toggle button to display the fan RPM.
	Toggle button to display the temperature graph and controls.

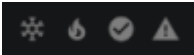


Figure 8.4. Peltier Stage Console status indicators.

The status indicators display the current status of the device. All grey means the peltier driver is disabled.

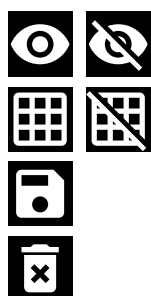
	The device is actively cooling.
	The device is actively heating.
	The setpoint temperature has been reached.
	A fault has occurred.

8.1.3 Temperature Graph



Figure 8.5. Peltier Stage Console temperature graph and controls.

The graph displays the temperature of the stage over time. The line is grey when the peltier is disabled, red when actively heating, blue when actively cooling, and green when the set point temperature is within the margin.



Pause/resume temperature data plotting

Turn off/on the grid

Save the recorded temperature data to CSV

Delete the recorded temperature data

By default, the plots will automatically scale the axes to display all the data within it. The view can be controlled manually using the following mouse controls:

- Left or middle click and drag – pan the axes.
- Right click and drag – scale the axes.
- Scroll wheel – scale the axes.

A specific axis can be controlled by using these controls on the axis labels. The axes can be reset by clicking the 'A' button in the bottom-left of the plot, shown in **Figure 8.6** (note, this button will only appear whilst the mouse cursor is over the plots).



Figure 8.6. Button to reset plot axes.

Axis scales and automatic scaling can also be set by right-clicking on the plot and selecting the appropriate options in the context menu.

8.1.4 Setpoint Program

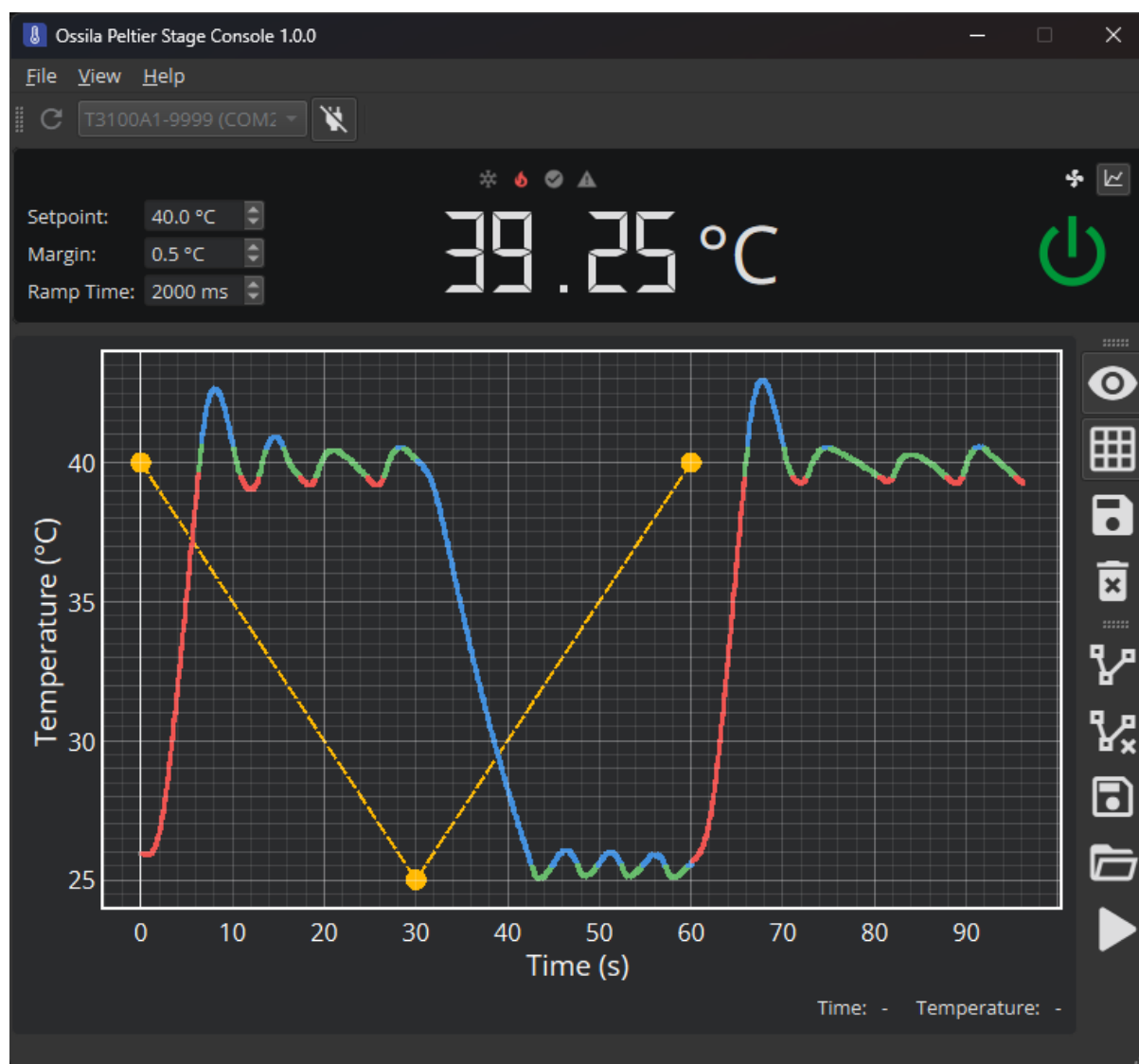


Figure 8.7. Peltier Stage Console setpoint program.

Setpoints can be programmed using the controls in the setpoints toolbar. While edit setpoint mode is enabled, left clicking on the graph will add a setpoint at that time and temperature. Click the play button to run through the programmed setpoints. *Note: a setpoint's time is when it is set, not when it is reached.*



Enable/disable set point editing mode



Clear all setpoints from the graph



Save the current setpoints program to CSV.



Load the current setpoints program from CSV.



Play/stop the current setpoints program

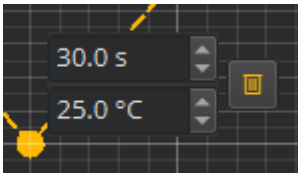


Figure 8.8. Peltier Stage Console individual setpoint editing.

When in setpoint editing mode, each setpoint will display the time and temperature in an editable box next to it. Individual setpoints can be deleted by clicking the  icon.

8.1.5 Menu Bar

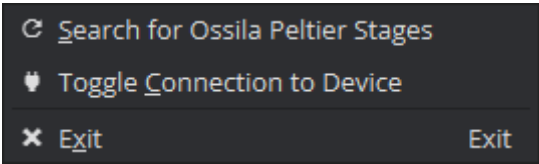


Figure 8.9. Peltier Stage Console file menu.

Search for Ossila Peltier Stages	Search the USB ports for Ossila Peltier Stages. Discovered devices will be displayed in the drop-down box in the connection tool bar.
Toggle Connection to Device	Connect or disconnect from the device selected in the dropdown menu in the connection tool bar.
Exit	Close the software.

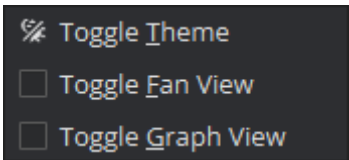


Figure 8.10. Peltier Stage Console view menu.

Toggle Theme	Switch the software between light and dark themes.
Toggle Fan View	Toggle display of the fan RPM.
Toggle Graph View	Toggle display of the temperature graph and controls.

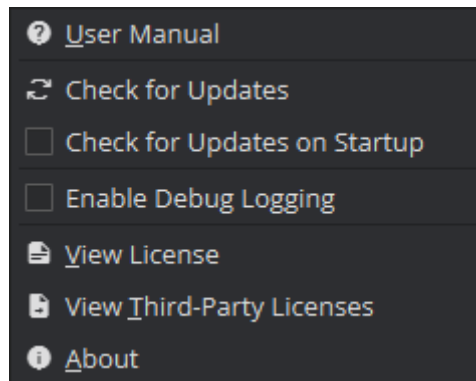


Figure 8.11. Peltier Stage Console help menu.

User Manual	Open the user manual in your default web browser.
Check for Updates	Check whether a newer version of the software is available to download and install. If an update is available a message will be displayed in the status bar with the latest version number. Clicking the message will take you to Ossila's website where you can download the latest version.
Check for Updates on Startup	When checked the software will automatically check for software updates each time it starts.
Enable Debug Logging	When enabled, more detailed debug logging will be written to the log file for the software, located at "C:\Users\[user name]\AppData\Local\Temp\Ossila Peltier Stage Console.log"
View License	Display software license information.
View Third-Party Licenses	Display the license information of third-party software that has been used in the software.
About	Display information about the software.

8.2 Command Library

The Ossila Peltier Stage can be communicated with using a serial command library. When connected to a PC, the device will appear as a COM port, to which the serial commands can be sent. This section describes the command protocol and lists the available commands.

8.2.1 Command Format

Commands should be sent to the peltier stage in ASCII format, and responses from the peltier stage will also be in ASCII format.

All commands sent to the peltier stage have a start and end delimiter, < and > respectively. Only commands enclosed by these delimiters will be acknowledged by the device. If any invalid commands are sent between delimiters, the system will return <Invalid Command>.

Commands are either set commands with the format <command value> or query commands with the format <command?>.

Set commands take between 0 and 2 values and each value must be separated by a space. If a command is successfully implemented, it will be echoed back. If the command has a corresponding query command, it is listed with the set command. In these cases, the set command value and query command return value have the same type.

Query commands allow the user to find current system settings without modifying them. If a query command is successfully interpreted, the system will return <command value>.

Values will be one of the following types depending on the command:

- **float** – Floating-point number
 - I. These can be sent in scientific notation (for example, 123e4 or 123E4).
- **int** – Integer
 - I. If a floating-point number is sent instead, it will be rounded down to an integer.
- **bool** – Boolean (0 or 1)
 - I. Non-zero integers or floating-point numbers will be interpreted as 1.
- **str** – String
 - I. Only used as returns in some query commands.

8.2.2 Device Commands

Command	Returns	Function
<device?>	<device <i>str</i> >	Returns the product code of the peltier stage.
<serial?>	<serial <i>int</i> >	Returns the serial number of the peltier stage.
<firmware?>	<firmware <i>int.int.int</i> >	Returns the firmware version of the peltier stage in the format <i>major.minor.patch</i> .

8.2.3 Temperature Control Commands

Command	Values/Returns	Function
<enable <i>X</i> > <enable?>	<i>X</i> – bool – driver enable flag	Enables the peltier driver, allowing it to heat or cool to reach the setpoint. Also clears all latched faults. If the underlying fault persists, the driver will immediately disable again.
<setpoint <i>X</i> > <setpoint?>	<i>X</i> – float – temperature setpoint in °C	Sets the target temperature in °C. Clamped to $-20 \leq X \leq 110$ °C. Disables any active sweep.
<margin <i>X</i> > <margin?>	<i>X</i> – float – temperature margin in °C	Sets the temperature allowance in °C around the setpoint for the temperature to be considered reached.
<ramptime <i>X</i> > <ramptime?>	<i>X</i> – float – peltier ramping time in milliseconds	Sets the time taken in milliseconds for the peltier driver to ramp to full power when switching directions.
<sweepparams <i>X Y</i> > <sweepparams?>	<i>X</i> – float – target temperature in °C <i>Y</i> – float – duration in seconds	Sets the target temperature in °C and duration in seconds of the sweep. The target temperature is clamped to ≤ 110 °C.
<sweepenable <i>X</i> > <sweepenable?>	<i>X</i> – bool – sweep enable flag	Starts a sweep with the current sweepparams, from the current time and temperature. Does not enable the peltier driver. Command returns 1 if no fault is currently latched.
<clearfault>	None	Clears the peltier driver's own latched hardware fault and all latched fault flags. If the underlying fault persists, the driver will immediately disable again.

8.2.4 Query Commands

Command	Returns	Function
<code><temp?></code>	<code><temp float float></code>	Returns the temperature in °C from the two sensors on opposite corners of the stage. Returns -999 if there is a sensor error.
<code><fanrpm?></code>	<code><fanrpm int></code>	Returns the RPM sensed from the fan.
<code><status?></code>	<code><status int></code>	Returns the current state of the peltier driver. 0 = disabled 1 = temperature reached (Hi-Z) 2 = heating 3 = cooling
<code><fault?></code>	<code><fault bool></code>	Returns 1 if any fault is currently latched, 0 otherwise. See <code>faultstatus?</code> for more detail.
<code><faultstatus?></code>	<code><faultstatus int></code>	Returns the specific fault that has occurred. 0 = none 1 = driver fault 2 = fan fault 3 = sensor fault 4 = overtemperature fault
<code><report?></code>	<code><report float int int int></code>	Returns the average temperature in °C, fan RPM, status code (see <code>status?</code>), and fault code (see <code>faultstatus?</code>).

9. Troubleshooting

Most of the issues that may arise will be detailed here. However, if you encounter any issues that are not detailed here, then contact us by email at info@ossila.com. We will respond as soon as possible.

Problem	Possible Cause	Action
No power / LED not illuminating	The power supply may not be connected properly.	Ensure the system is firmly plugged into the power supply, and that the plug is connected to both the adaptor and a working power socket.
	The power supply adaptor has a fault.	Contact Ossila for a replacement power supply adaptor.
Cannot connect to the system via USB	The USB cable may not be connected properly.	Ensure the USB cable is firmly plugged in at both ends.
	The USB cable may not be connected to a working USB port.	Try connecting the unit to a different USB port on the computer.
	The USB cable is defective.	Try using a different USB-A to USB-C cable and contact Ossila if necessary.
Stage is not heating / cooling	The driver may not be enabled.	Ensure the driver is enabled by clicking the  button in the software, (it turns green  when enabled). If using the serial command interface, send the command <code><enable 1></code> , which will echo back the same.
	There may be a fault.	When a fault occurs, the device's indicator light flashes yellow, the  icon illuminates in the software, and the status bar describes the fault. Over serial, <code><fault?></code> echoes <code><fault 1></code>, and <code><faultstatus?></code> returns a code indicating the specific fault. To clear the fault, re-enable the driver (see instructions above) or send <code><clearfault></code> over serial. If the underlying fault persists, the driver disables again immediately. Contact Ossila if necessary.

10. Related Products



ITO Coated Substrates

Our range of ITO substrates for OPV, OLED, and sensing applications.

Product codes: S111 / S211 / S2006



Flat Tip Tweezers

Provides a good substrate grip without scratching.

Product code: C121



FTO Coated Substrates

Designed to be used as transparent electrodes for thin-film photovoltaics.

Product codes: S301 / S302 / S303 / S304



Substrate Cleaning Rack

Holds 20 substrates for a variety of processing techniques.

Product codes: E101 / E102