

CohesionUI

Quick Start Guide

HOME

MODULES

SETTINGS

CONSOLE

INFO

CHASSIS 1

SYNC

LASER-1051

1051-1-FC
CSL-183401
HWO-01-02FWO-01-32

4

VOA-1001

1001-1-FA
CSL-991407
HWO-00-01FWO-02-00

6

SWITCH-1003

1003-1-SA
CSL-000000
HWO-01-00FWO-02-17

8

O2E-1901

1901-2-FA
CSL-181202
HWO-02-00FWO-02-02

9

O2E-1101

1101-1-FA
CSL-181202
HWO-02-00FWO-02-02

11

OSA-1004

1004
CSL-180000
HWO-01-00FWO-01-00

12

CHASSIS 2

SYNC

SWITCH-1201

1201-1-SA
CP-183918
HWO-01-00FWO-02-17

6

BERT-1005

1005-4
CSL-200602
HWO-00-02FWO-01-35

14

SWITCH-1112

1112-1-SA
CSL-200711
HWO-01-00FWO-02-17

15

BERT-1001

1001-2
1005/122018/BRT
HWO-00-02FWO-01-35

17

EMPTY SLOTS: HIDDEN

SERIAL NUMBER:
FALCON

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1 Conventions

Please make yourself familiar with these conventions; we use them throughout this user manual:



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in **death or serious injury**.

Do not proceed unless the required conditions are met and understood.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in **minor or moderate injury** or **component damage**.

Do not proceed unless the required conditions are met and understood.

NOTE

Indicates relevant information that requires your attention.

2 CohesionUI - Overview (PXle modules)

CohesionUI is a web-based graphical interface that you can use to work with your Quantifi Photonics products.

CohesionUI is part of the Cohesion Installer software package.

1. **HOME:** View all modules in the chassis
2. **MODULES:** Access a module
3. **SETTINGS:** Change CohesionUI settings
4. **CONSOLE:** Communicate with modules using SCPI commands
5. **INFO:** Display chassis information

The screenshot displays the CohesionUI web interface. On the left is a dark purple sidebar with navigation links: HOME (with a house icon), MODULES (with a list icon), SETTINGS (with a gear icon), CONSOLE (with a terminal icon), and INFO (with an information icon). The main content area is divided into two columns for 'CHASSIS 1' and 'CHASSIS 2'. Each column has a 'SYNC' button in the top right. Chassis 1 contains six modules: LASER-1051, VOA-1001, SWITCH-1003, O2E-1901, O2E-1101, and OSA-1004. Chassis 2 contains four modules: SWITCH-1201, BERT-1005, SWITCH-1112, and BERT-1001. Each module card shows its name, a small icon, and technical specifications. A '1' in a yellow circle is positioned at the bottom right of the interface, near the 'EMPTY SLOTS: HIDDEN' toggle and the 'SERIAL NUMBER: FALCON' text.

Chassis	Module Name	Module ID	Module Icon
CHASSIS 1	LASER-1051	1051-4-FC CSL-193401 HWO.01.02FW0.01.32	4
	VOA-1001	1001-1-FA CSL-991407 HWO.00.01FW0.02.00	6
	SWITCH-1003	1003-1-SA CSL-000000 HWO.01.00FW0.02.17	8
	O2E-1901	1901-2-FA CSL-181202 HWO.02.00FW0.02.02	9
	O2E-1101	1101-1-FA CSL-181202 HWO.02.00FW0.02.02	11
	OSA-1004	1004 CSL-180000 HWO.01.00FW0.01.00	12
CHASSIS 2	SWITCH-1201	1201-1-SA QP-183918 HWO.01.00FW0.02.17	6
	BERT-1005	1005-4 CSL-200602 HWO.00.02FW3.01.35	14
	SWITCH-1112	1112-1-SA CSL-200711 HWO.01.00FW0.02.17	15
	BERT-1001	1001-2 1005/122019/BRT HWO.00.02FW3.01.35	17

2.1 Access a module with CohesionUI

You can access Quantifi Photonics modules via CohesionUI from the chassis controller, or from a controller PC.

To connect with a module, you need the IP address of the chassis the module is installed in.

▶ To obtain the IP address of the chassis:

1. Open the **Command Prompt** window on the chassis controller.
2. Run the `ipconfig` command.
3. Note down the IPv4 address that is displayed.

▶ To connect with modules via CohesionUI:

1. On the controller or controller PC, open CohesionUI, for example by double-clicking the desktop icon, or open a supported browser.
2. Enter the IP address of the chassis as the URL.

On the controller you can use `127.0.0.1` as the URL instead.

3. CohesionUI will launch in the browser, listing all available Quantifi Photonics modules installed in the chassis.

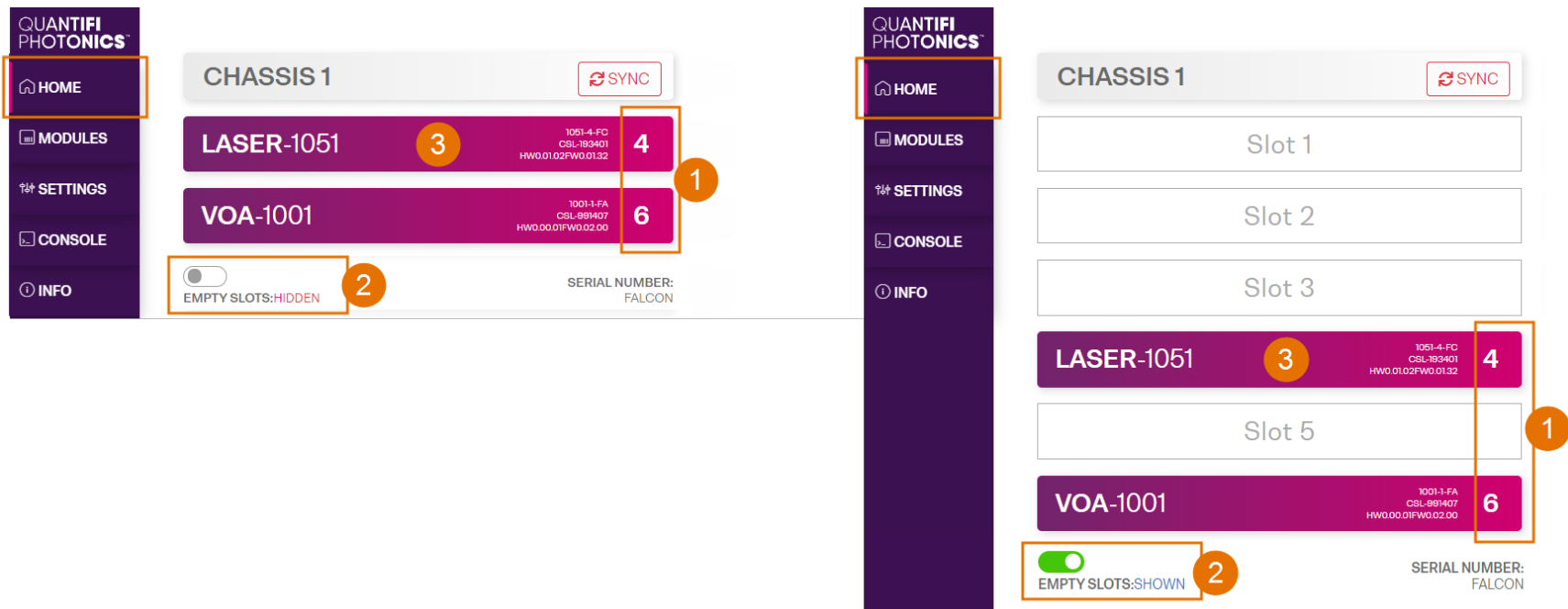
The screenshot displays the CohesionUI web interface. On the left is a dark purple sidebar with navigation links: HOME, MODULES, SETTINGS, CONSOLE, and INFO. The main content area is divided into two columns for 'CHASSIS 1' and 'CHASSIS 2', each with a 'SYNC' button. Under CHASSIS 1, four modules are listed: LASER-1051 (4), VOA-1001 (6), SWITCH-1003 (8), and O2E-1901 (9). Under CHASSIS 2, four modules are listed: SWITCH-1201 (6), BERT-1005 (14), SWITCH-1112 (15), and BERT-1001 (17). Each module card shows its name, a small icon, and a numerical value in a red circle. Technical details like model numbers and IP addresses are visible in smaller text on each card.

Chassis	Module Name	Value
CHASSIS 1	LASER-1051	4
	VOA-1001	6
	SWITCH-1003	8
	O2E-1901	9
CHASSIS 2	SWITCH-1201	6
	BERT-1005	14
	SWITCH-1112	15
	BERT-1001	17

2.2 Display modules in a chassis

The **HOME** page is the main landing page in CohesionUI; it displays all available Quantifi Photonics modules in the PXle chassis.

1. Numbers indicate the slots the modules are installed in.
2. You can hide (default setting) or show empty slots in the PXle chassis by toggling the **EMPTY SLOTS** button.
3. You can select a module to work with by clicking it.



2.3 Select a module to work with

► To select a module:

1. Go to the **HOME** page.
2. Click the on the module.

The screenshot shows the 'HOME' page of the Quantifi Photonics interface. A sidebar on the left contains navigation links: HOME (highlighted with a red box and a red circle with the number 1), MODULES, SETTINGS, CONSOLE, and INFO. The main content area is divided into two columns, CHASSIS 1 and CHASSIS 2, each with a 'SYNC' button. Under CHASSIS 1, there are three modules: LASER-1051 (highlighted with a red box and a red circle with the number 2), VOA-1001, and SWITCH-1003. Under CHASSIS 2, there are three modules: SWITCH-1201, BERT-1005, and SWITCH-1112. Each module card displays its name, a small icon, and a numerical value (4, 6, 8, 6, 14, 15 respectively).

CHASSIS 1	CHASSIS 2
LASER-1051 4 1051-4-FC CSL-193401 HWO.01.02FW0.01.32	SWITCH-1201 6 1201-1-SA OP-183918 HWO.01.00FW0.02.17
VOA-1001 6 1001-1-FA CSL-991407 HWO.00.01FW0.02.00	BERT-1005 14 1005-4 CSL-200602 HWO.00.02FW3.01.35
SWITCH-1003 8 1003-1-SA CSL-000000 HWO.01.00FW0.02.17	SWITCH-1112 15 1112-1-SA CSL-200711 HWO.01.00FW0.02.17

3. Or, hover over the **MODULES** menu and select a module or channel from the list.

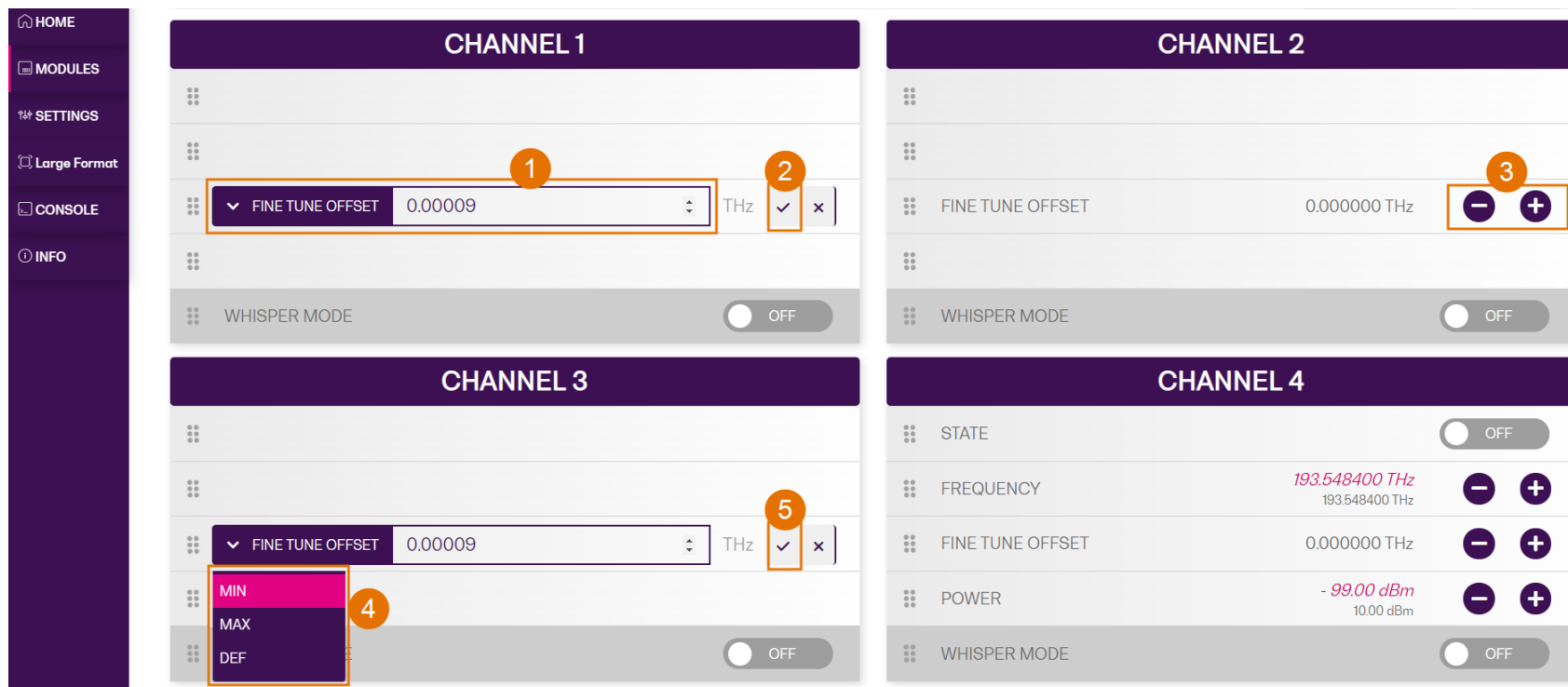
The screenshot shows the 'MODULES' menu in the Quantifi Photonics interface. The sidebar on the left contains navigation links: HOME, MODULES (highlighted with a red box and a red circle with the number 3), SETTINGS, CONSOLE, and INFO. The main content area displays a list of modules and channels. The list is organized into two columns: CHASSIS 1 and CHASSIS 2. Under CHASSIS 1, there are four modules: LASER-1051, VOA-1001, SWITCH-1003, and O2E-1901. Under CHASSIS 2, there are three modules: O2E-1101, Channel 1, Channel 2, Channel 3, and Channel 4. Each module card displays its name, a small icon, and a numerical value (4, 6, 8, 9, 11 respectively).

CHASSIS 1	CHASSIS 2
LASER-1051 4 1051-4-FC CSL-193401	Channel 1
VOA-1001 6 1001-1-FA CSL-991407	Channel 2
SWITCH-1003 8 1003-1-SA CSL-000000	Channel 3
O2E-1901 9 1901-2-FA CSL-181202	Channel 4
O2E-1101 11 1101-1-FA CSL-181202	

2.4 Set values

In CohesionUI you can set values for parameters where applicable.

- ▶ To set a value:
 1. Click on a parameter and enter a value.
 2. Confirm the value.
 3. Alternatively, you can use + and - to increase or decrease the value. You can edit the step size in the **SETTINGS** menu.
- ▶ To set a pre-defined value, for example **MIN**, **MAX** or **DEF**:
 4. Click on a parameter and select a value from the dropdown menu.
 5. Confirm the value.



For details on how to change the step size, refer to [Manage CohesionUI settings](#).

2.5 SET values and ACTUAL values

In some cases you can manually set a value that will be displayed alongside the actual value as follows:

- **ACTUAL:** The actual value of the parameter as queried by the product.
- **SET:** The intended value of a given parameter as set by the user.

CHANNEL 1			
STATE		☐ OFF	
FREQUENCY	193.414400 THz 193.414489 THz	−	+
FINE TUNE OFFSET	0.000000 THz	−	+
POWER	- 99.00 dBm 10.00 dBm	−	+

2.6 Manage CohesionUI settings

On the **SETTINGS** page you can configure CohesionUI settings and unit preferences.

NOTE

CohesionUI reverts to default settings when power-cycling the chassis.

► To view all settings and unit preferences and adjust as required:

1. Click **SETTINGS**.
2. Change settings or unit preferences as required, for example temperature units.
Please note that the units displayed on this page are not always relevant for each product.
3. **Step size** refers to the amount by which a value is increased or decreased when clicking the **+** or **-** button.

QUANTIFI PHOTONICS

HOME

MODULE

1 SETTINGS

CONSOLE

INFO

POWER

dBm mW

SPECTRUM

THz nm

2 TEMPERATURE

°F K °C

THEMES

DARK THEME LIGHT THEME

3 ATT STEP SIZE (dB)

0.1 1.0 10.0

PWR STEP SIZE (dBm | mW)

0.01 0.1 1.0

FREQ STEP SIZE (THz)

0.01 0.1 1.0

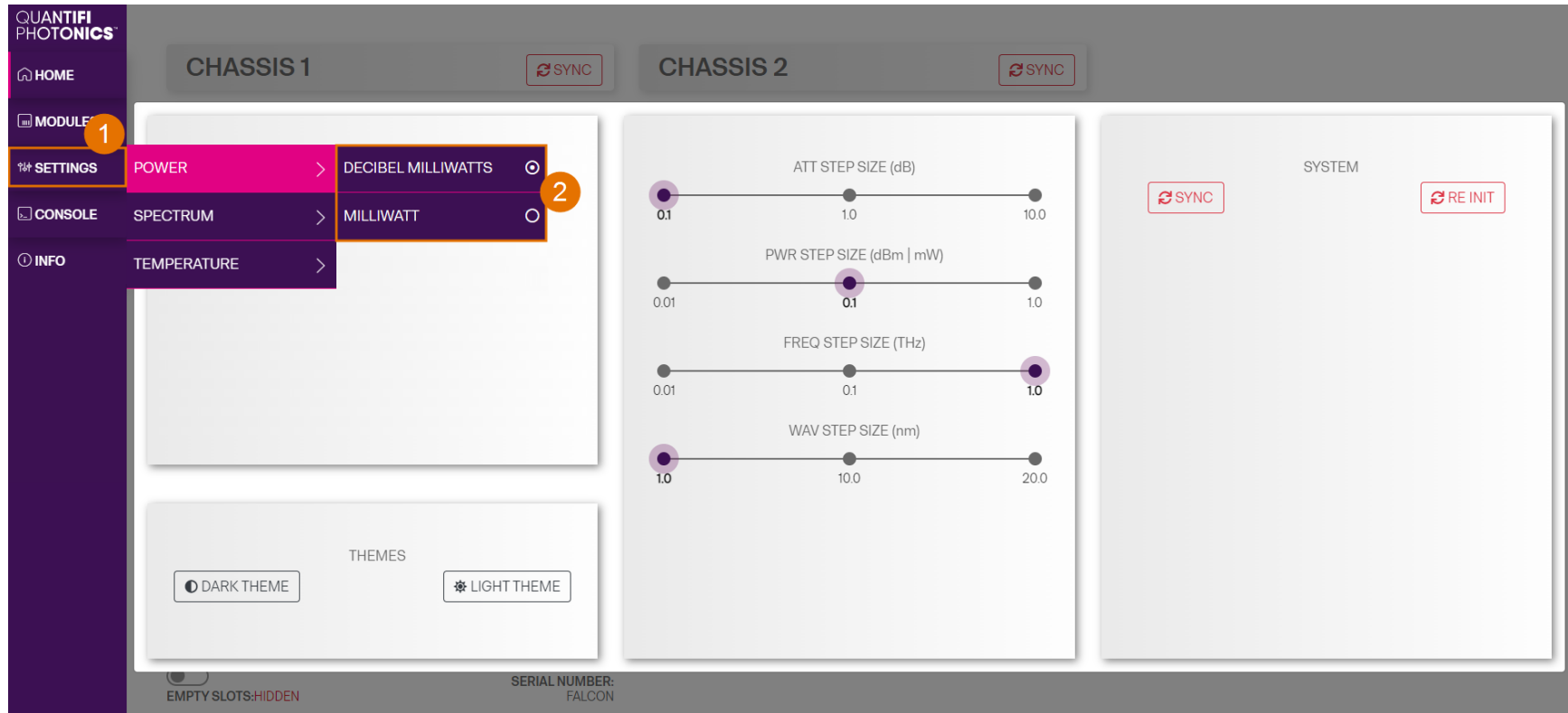
WAV STEP SIZE (nm)

1.0 10.0 20.0

SYSTEM

SYNC RE INIT

- To adjust unit preferences one at a time:
1. Hover over **SETTINGS**.
 2. Select a unit from the dropdown, for example the power unit.



2.7 Synchronize and reinitialize CohesionUI

You can update CohesionUI with the latest information from your Quantifi Photonics modules by synchronizing or reinitializing.

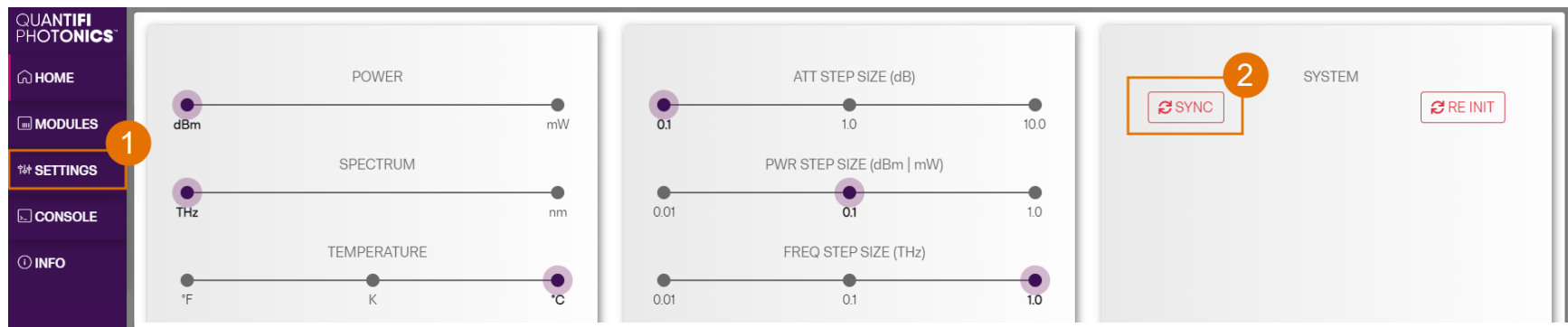
Synchronizing	Updates CohesionUI with the latest information from the CohesionSCPI service
Reinitializing	Updates CohesionUI and the CohesionSCPI service with the latest information from the CohesionDriver service

This can be particularly useful when operating a multi-chassis MXI setup and enables you to:

- Re-discover modules that CohesionUI does not display as expected.
- Discover modules that have been installed after the initial startup.

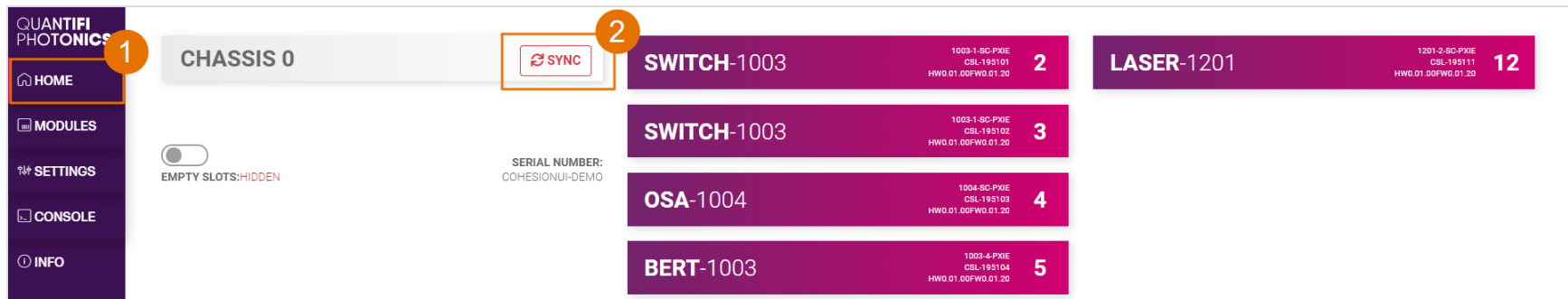
► To **synchronize** CohesionUI across **all modules in all chassis**:

1. Click **SETTINGS**.
2. Click **SYNC**.
3. The page will be disabled while synchronizing.



► To **synchronize** CohesionUI across **all modules in a selected chassis** only:

1. Click **HOME**.
2. Click **SYNC** for a selected chassis.
3. The page will be disabled while synchronizing.



► To **reinitialize** CohesionUI across **all modules in all chassis**:

1. Click **SETTINGS**.
2. Click **RE-INIT**.
3. All modules will be disabled and temporarily disconnected while reinitializing.



2.8 SCPI CohesionUI Command Console

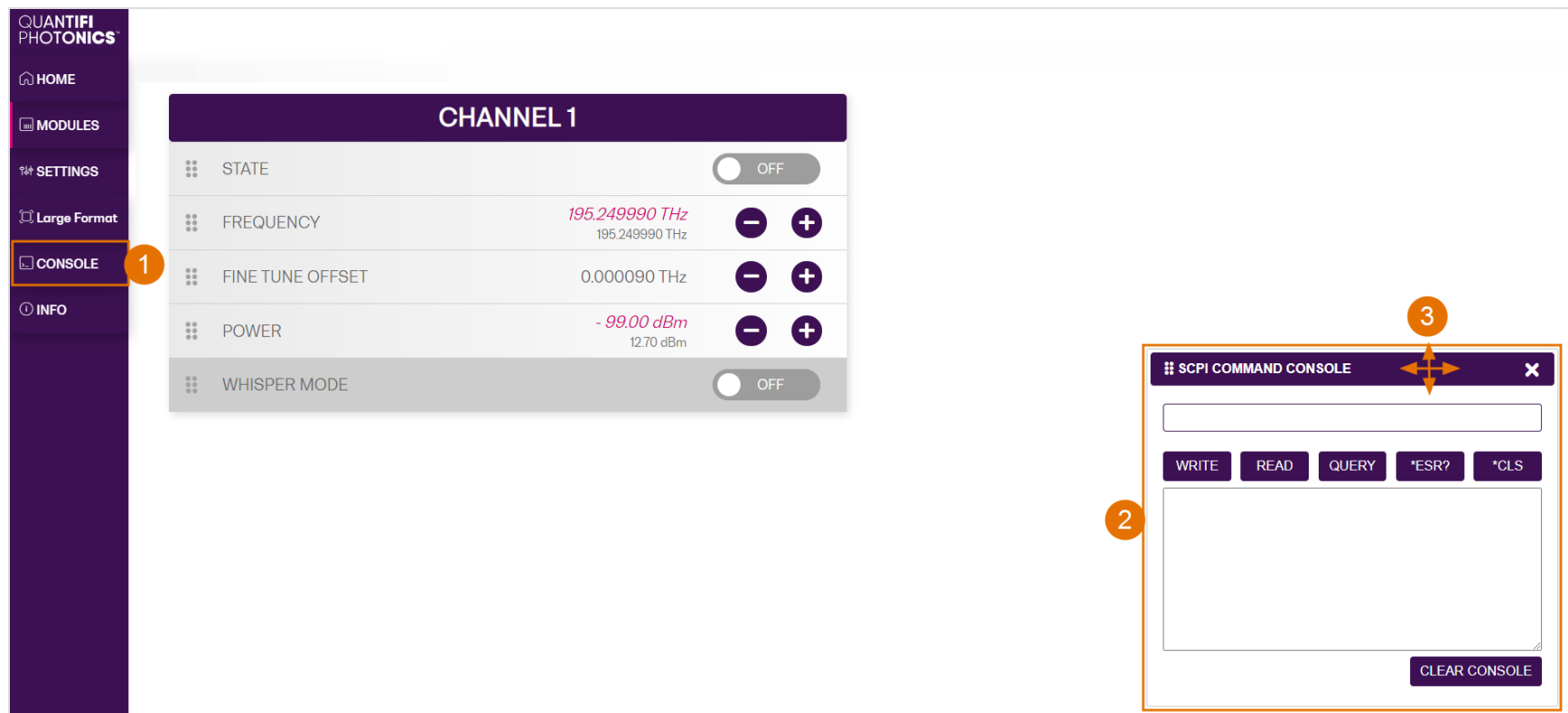
The CohesionUI SCPI Command Console enables you to communicate with Quantifi Photonics PXIE modules via SCPI commands. It enables you to test commands and verify their syntax.

For details on available SCPI commands, refer to the SCPI command section.

► To open the SCPI Command Console:

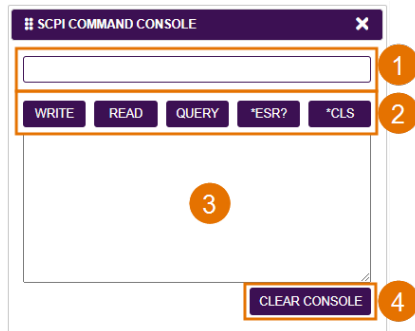
1. On the CohesionUI menu, click **CONSOLE**.
2. The console will appear in the bottom right corner of the screen.
3. You can move the console by clicking on the title bar and dragging it to any position on the screen. On closing and re-opening, the console will re-appear at its last position.

The console remains open when navigating between different modules. It floats on top of the UI so that you can observe the effect of SCPI commands on a module in real-time.



► To communicate with a module via the SCPI Command Console:

1. Enter a command.
2. Select action(s).
3. Review the action response in the output area.
4. (optional) Clear the output area.



You can choose from these SCPI command actions:

Action	Meaning	FAILED response
WRITE	Send the command to the instrument	The command is invalid. Please check the command and syntax.
READ	(after WRITE) Request the response from the instrument	Response buffer is empty.
QUERY	WRITE and READ	
*ESR?	Query the status event status register (ESR) – this will give you more details and specific information about command failures. For details on error codes, please refer to the programming guide in this manual.	
*CLS	Clear the response buffer and start fresh – useful when getting out of sync with WRITE and READ actions	

Example 1: Send instrument identification query *idn?

1. Enter the command: *idn?
2. Click **QUERY**.
3. The module returns the requested information.

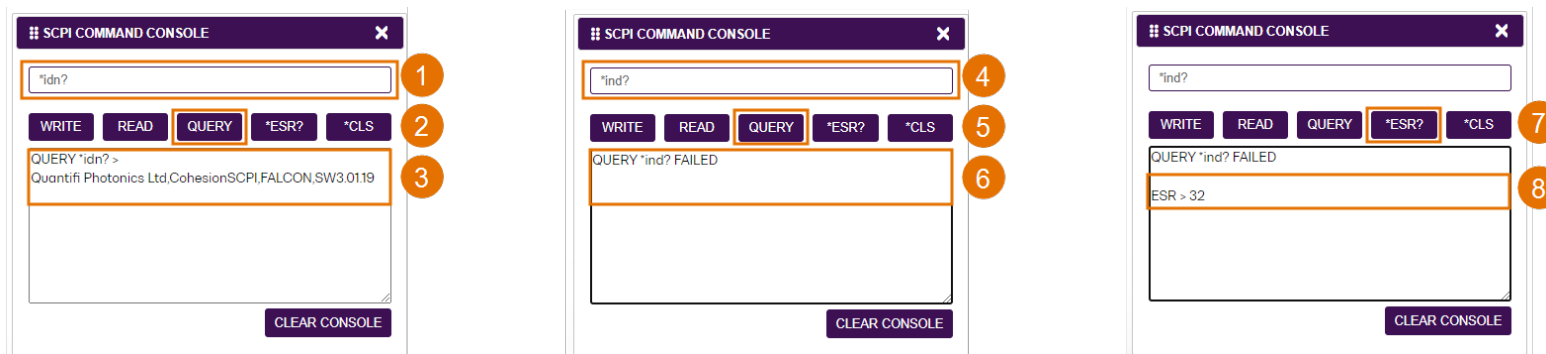
Example 2: What happens when I send an incorrect command?

4. Enter an incorrect command, for example: *ind?
5. Click **QUERY**.
6. The module returns **FAILED**.

Example 3: Investigate a command failure:

7. Click *ESR? to query the event status register and request information about the command failure.
8. The instrument returns the error code, for example 32.

For details on error codes, please refer to the *ESR? command in the programming guide.



2.9 View system information

2.9.1 PXIe Chassis

► To display chassis information:

1. Click **INFO**.
2. The information panel will display operation mode, manufacturer, model, and serial number of the chassis, and the version of CohesionUI and CohesionSCPI service running on the chassis.

The screenshot displays the Quantifi Photonics CohesionUI interface. On the left is a dark purple sidebar with navigation options: HOME, MODULES, SETTINGS, CONSOLE, and INFO (highlighted with a red circle and a '1' callout). The main area is divided into two columns for CHASSIS 1 and CHASSIS 2, each with a 'SYNC' button. CHASSIS 1 contains modules: BERT-1102, LASER-1051, VOA-1001, and SWITCH-1003. CHASSIS 2 contains: SWITCH-1307, BERT-1005, SWITCH-1112, and BERT-1001. Each module card shows its name, model number, serial number, and firmware version, along with a slot number in a red circle. On the right, a 'CohesionUI™' panel (callout '2') displays system information: COMPANY (QUANTIFI PHOTONICS LTD), MODEL (COHESIONSCPI), SERIAL (FALCON), VERSION (4.00.10 C4328EC), and CHASSIS MODE (MULTI).

Chassis	Module Name	Model	Serial	Firmware	Slot
CHASSIS 1	BERT-1102	1102-8-PXI-E	QP-214505	HW0.00.02FW0.01.48	2
	LASER-1051	1051-4-FC	CSL-183401	HW0.01.02FW0.01.32	4
	VOA-1001	1001-1-FA	CSL-991407	HW0.00.01FW0.02.02	6
	SWITCH-1003	1003-1-SA	CSL-000000	HW0.01.00FW0.02.17	8
CHASSIS 2	SWITCH-1307	1307-1-SA	QP-214712	HW0.01.00FW0.02.18	9
	BERT-1005	1005-4	CSL-200602	HW0.00.02FW0.01.48	14
	SWITCH-1112	1112-1-SA	CSL-200711	HW0.01.00FW0.02.17	15
	BERT-1001	1001-2	1005/122019/BRT	HW0.00.02FW0.01.48	17

2.9.2 Module

► To view module information when working with a module in CohesionUI:

1. Model number, serial number and firmware versions are displayed in the top right corner.

The screenshot shows the Quantifi Photonics CohesionUI interface with the 'POWER-1401' module selected in 'SLOT 16'. A red callout '1' points to the top right corner of the module header, which displays the model number '1401-4-FC', serial number 'CSL-191509', and firmware version 'HW0.00.01FW0.01.12'. Below this are buttons for 'ACTUAL', 'SET VALUE', and 'REFRESH'. The main area is titled 'CHANNEL 1' and shows two parameters: 'POWER' at -79.94 dBm and 'POWER OFFSET' at 0.00 dBm, each with adjustment buttons.

Channel	Parameter	Value
CHANNEL 1	POWER	-79.94 dBm
	POWER OFFSET	0.00 dBm

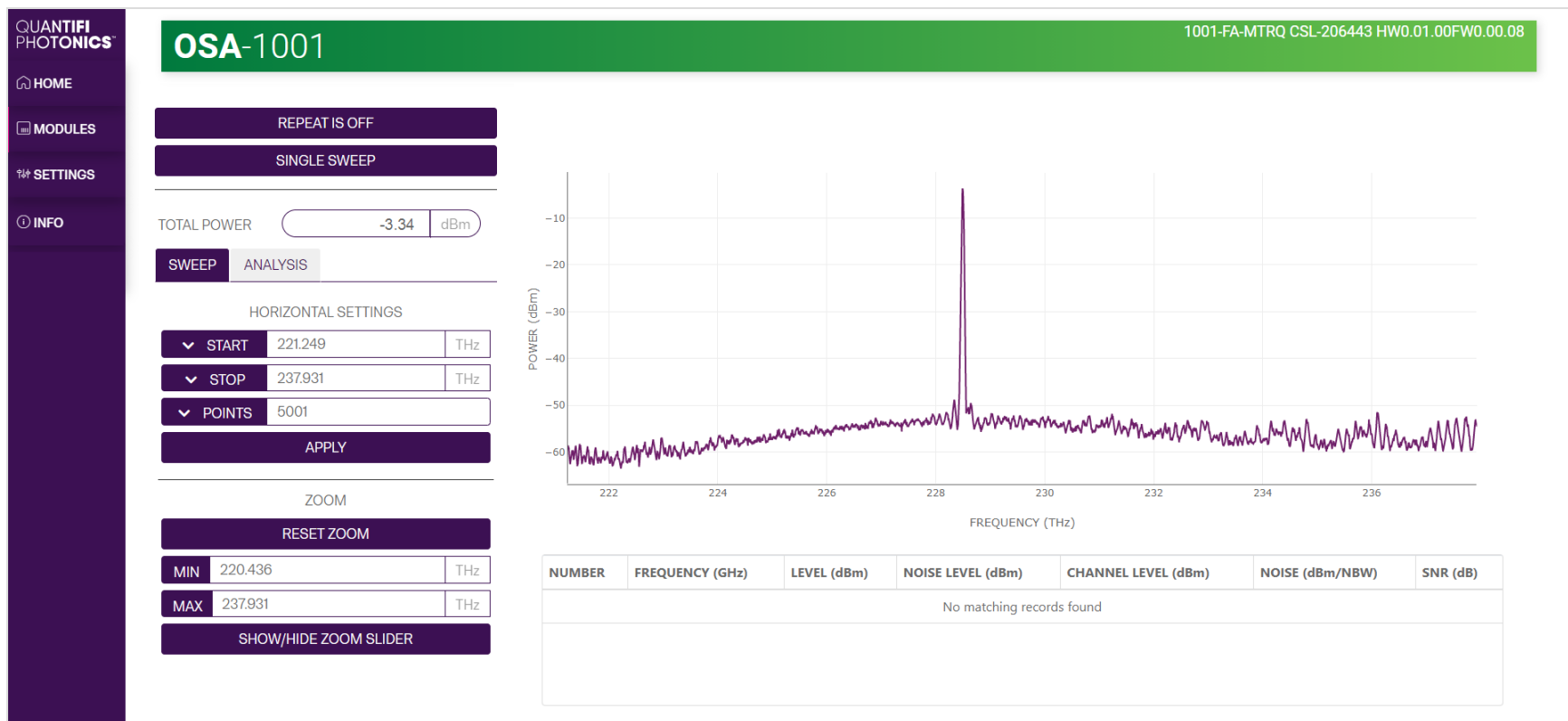
3 CohesionUI - Overview (MATRIQ instruments)

CohesionUI is a web-based graphical interface that you can use to work with your Quantifi Photonics product.

CohesionUI is part of the MATRIQ firmware package running on your Quantifi Photonics instrument.

From the menu on the left you can navigate to the following pages:

1. **HOME:** This is your main page. From here you can access all controls for your instrument
2. **SETTINGS:** Here you can change CohesionUI settings and/or instrument IP address
3. **INFO:** Here you can display instrument information, e.g. model number and firmware version



3.1 Access instruments with CohesionUI

You can open CohesionUI for Quantifi Photonics MATRIQ and EPIQ instruments:

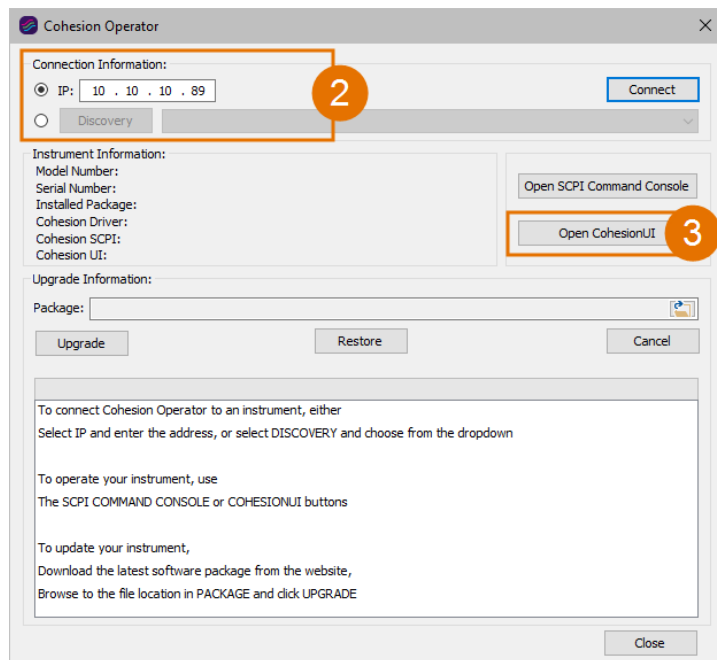
- from Cohesion Operator, or
- in a supported browser by entering the instrument IP in the address bar.

To open CohesionUI, you need the IP address of the instrument. For details, refer to the Instrument IP address section.

► To open CohesionUI from Cohesion Operator:

1. Open **Cohesion Operator** on a client computer, for example by double-clicking the Cohesion Operator desktop icon
2. Select the instrument by entering its **IP address** or by selecting it from the **Discovery** dropdown.
3. Click **Open CohesionUI**.

CohesionUI will open in your standard browser.



► To open CohesionUI in a browser:

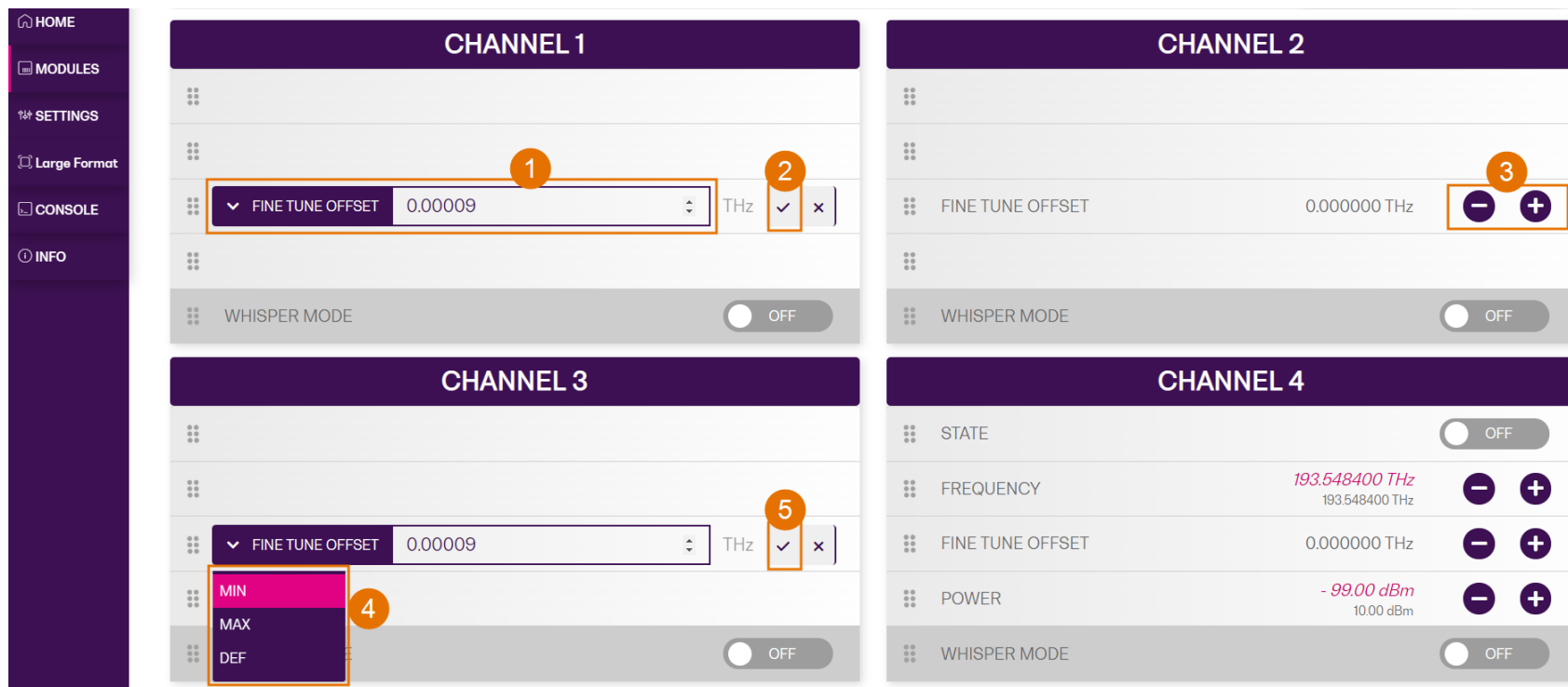
1. Launch a supported **browser**.
2. Enter the instrument **IP address** in the address bar.
CohesionUI will launch in the browser.



3.2 Set values

In CohesionUI you can set values for parameters where applicable.

- ▶ To set a value:
 1. Click on a parameter and enter a value.
 2. Confirm the value.
 3. Alternatively, you can use + and - to increase or decrease the value. You can edit the step size in the **SETTINGS** menu.
- ▶ To set a pre-defined value, for example **MIN**, **MAX** or **DEF**:
 4. Click on a parameter and select a value from the dropdown menu.
 5. Confirm the value.



For details on how to change the step size, refer to [Manage CohesionUI settings](#).

3.3 SET values and ACTUAL values

In some cases you can manually set a value that will be displayed alongside the actual value as follows:

- **ACTUAL:** The actual value of the parameter as queried by the product.
- **SET:** The intended value of a given parameter as set by the user.

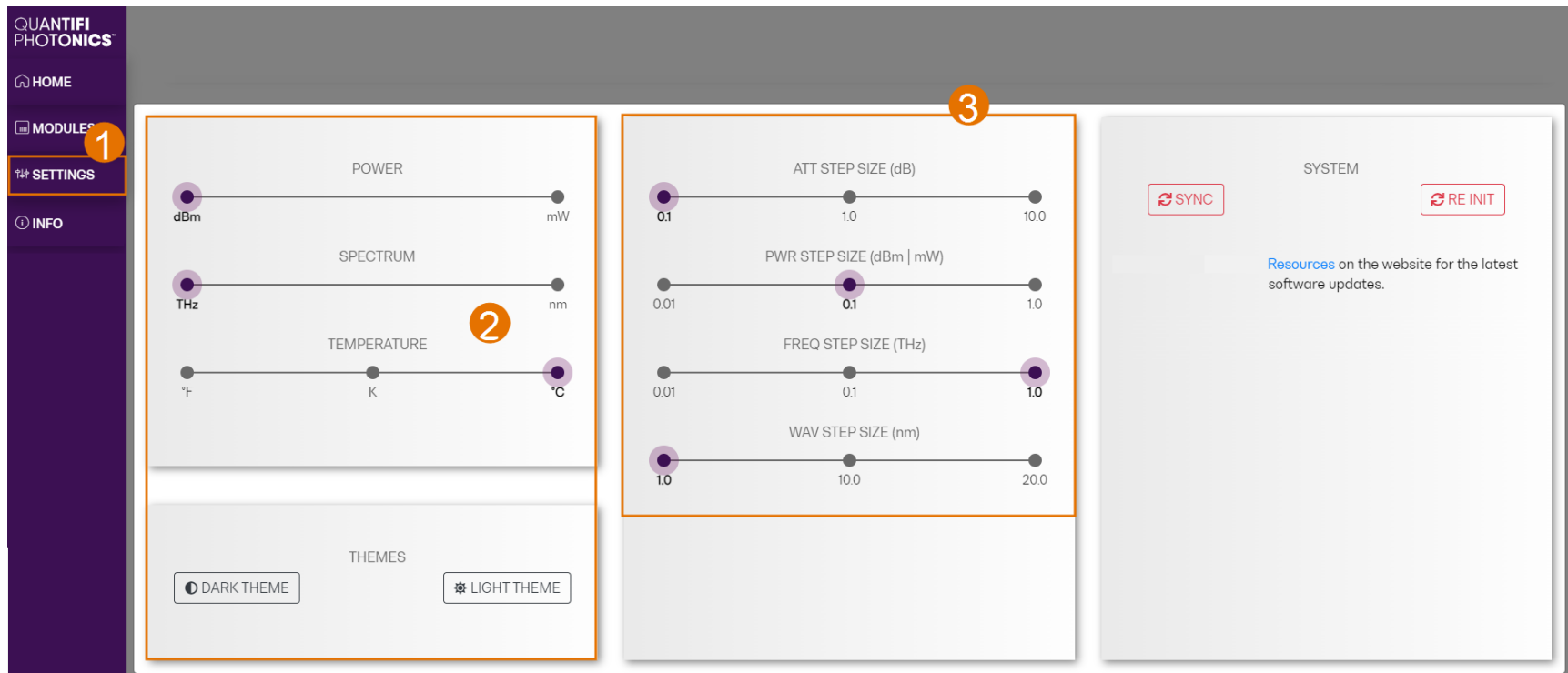
CHANNEL 1			
STATE		☐ OFF	
FREQUENCY	193.414400 THz 193.414489 THz	−	+
FINE TUNE OFFSET	0.000000 THz	−	+
POWER	- 99.00 dBm 10.00 dBm	−	+

3.4 Manage CohesionUI settings

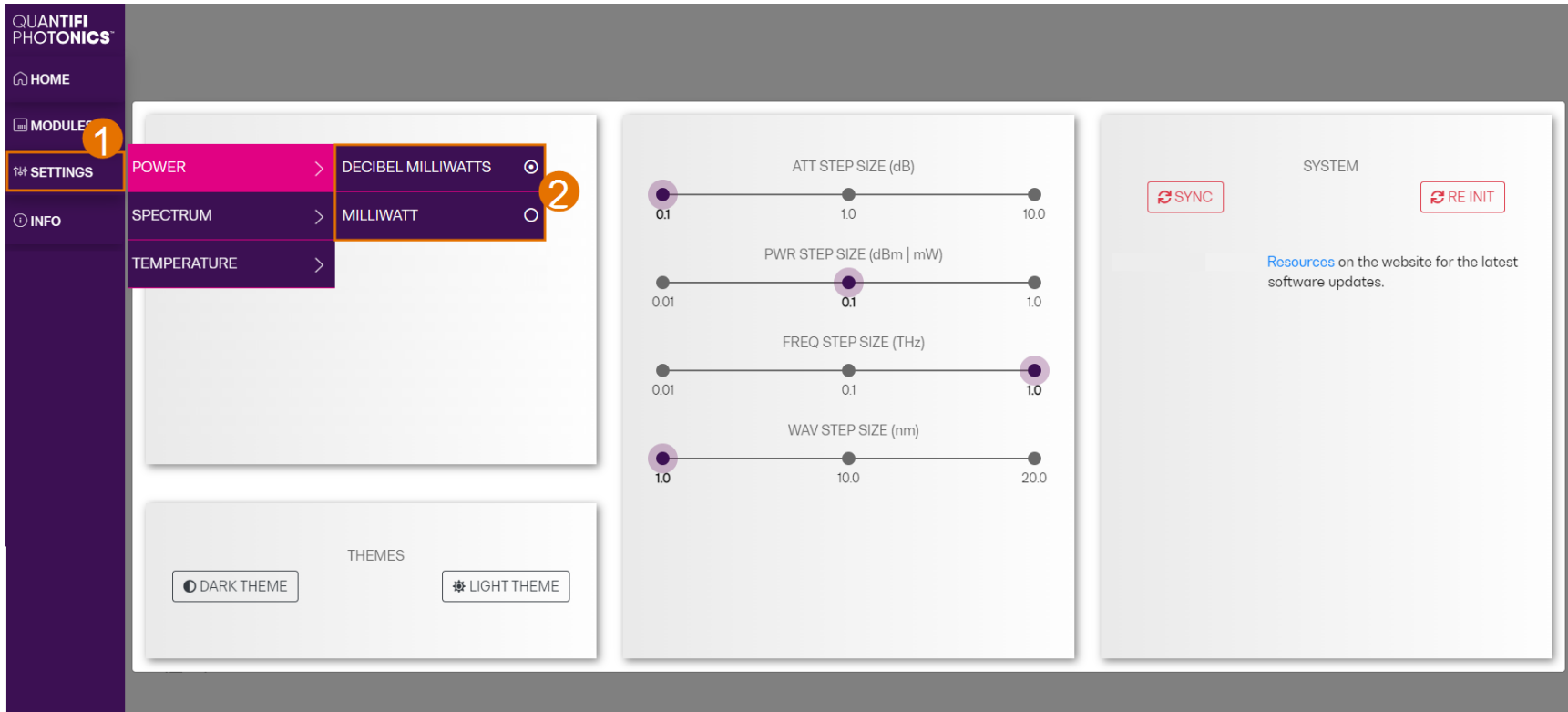
On the **SETTINGS** page you can configure CohesionUI settings and unit preferences.

► To view all settings and unit preferences and adjust as required:

1. Click **SETTINGS**.
2. Change settings or unit preferences as required, for example temperature units.
Please note that the units displayed on this page are not always relevant for each product.
3. **Step size** refers to the amount by which a value is increased or decreased when clicking the **+** or **-** button.



- To adjust unit preferences one at a time:
1. Hover over **SETTINGS**.
 2. Select a unit from the dropdown, for example the power unit.



3.5 Change the instrument IP address

Your instrument can have two different IP addresses depending on your chosen connection method (USB or Ethernet):

- The default **USB IP address** is **192.168.101.201**. This is a static address set during instrument calibration.
- The default **Ethernet IP address** is dynamically assigned by the DHCP.

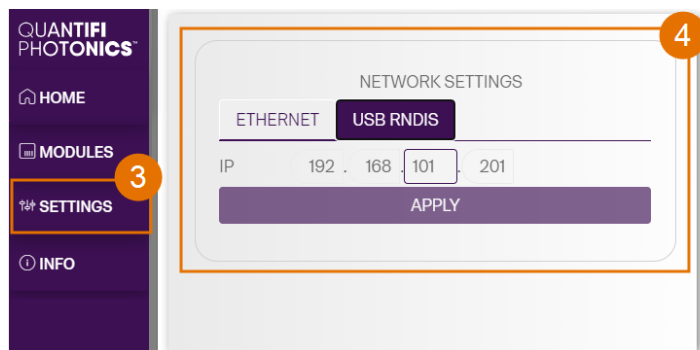
You can change the instrument's static USB IP address, and assign a static Ethernet IP address if required.

Multi-instrument control

If you have several Quantifi Photonics instruments with static IP addresses on your network, make sure to assign a unique IP address to each instrument before connecting.

► To change the **USB IP address**:

1. Connect with the instrument from a client computer via USB. Ensure that this is the only Quantifi Photonics instrument currently connected via USB.
2. Open CohesionUI using the currently assigned USB IP address.
3. Go to **SETTINGS**.
4. In **NETWORK SETTINGS > USB RNDIS** tab:
 - The currently assigned IP address is displayed. Enter the new IP address by changing the **3rd octet** of the IP address. To avoid any addressing conflicts, make sure that this is a unique IP address that is not shared with any other instrument on the network.
 - Click **APPLY**. The new IP address will show in CohesionUI and on the display.



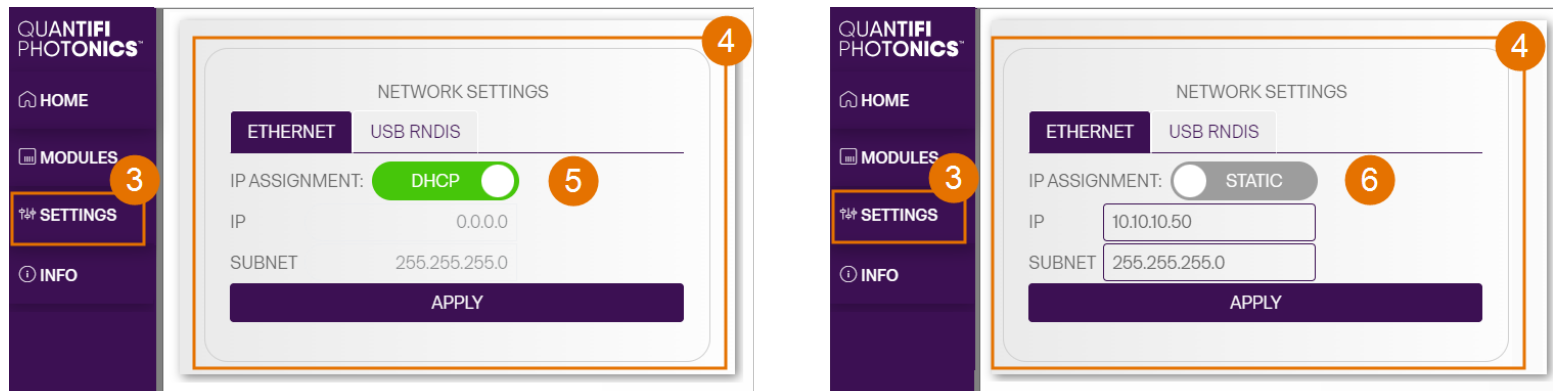
► To change the **Ethernet IP address**:

1. Connect with the instrument from a client computer via USB. Ensure that this is the only Quantifi Photonics instrument currently connected via USB.
2. Open CohesionUI using the currently assigned USB IP address.
3. Go to **SETTINGS**.
4. In **NETWORK SETTINGS > ETHERNET** tab:
5. Toggle **IP ASSIGNMENT** to **DHCP** to enable the DHCP to automatically assign the Ethernet IP address (this is the default setting) and click **APPLY**.

OR

6. Toggle **IP ASSIGNMENT** to **STATIC** to assign a static Ethernet IP address.
Enter the new **IP address** and **SUBNET mask** and click **APPLY**.
To avoid any addressing conflicts, make sure that this is a unique IP address that is not shared with any other instruments on the network.

The new IP address will show in CohesionUI and on the display.



3.6 View system information

You can easily access instrument information, for example the model number and firmware version.

► To display instrument information in CohesionUI:

1. Refer to the top right corner in CohesionUI.
2. For more details, click **INFO** to display the information panel.
3. The information panel lists the instrument's serial number, and software and firmware versions.

The screenshot displays the CohesionUI interface. On the left is a dark purple sidebar with navigation options: HOME, MODULES, SETTINGS, and INFO (highlighted with a yellow circle and the number 2). The main area has a green header bar at the top with 'OSA-1001' and a yellow box (1) containing the serial number '1001-FA-MTRQ CSL-206443 HW0.01.00FW0.00.08'. Below the header, there are buttons for 'REPEAT IS OFF' and 'SINGLE SWEEP'. A 'TOTAL POWER' section shows '-3.34 dBm'. There are tabs for 'SWEEP' and 'ANALYSIS'. Under 'HORIZONTAL SETTINGS', there are fields for 'START' (221.249 THz), 'STOP' (237.931 THz), and 'POINTS' (5001), with an 'APPLY' button. A 'ZOOM' section includes a 'RESET ZOOM' button, 'MIN' (220.436 THz) and 'MAX' (237.931 THz) fields, and a 'SHOW/HIDE ZOOM SLIDER' button. The central part of the interface features a spectral plot with 'POWER (dBm)' on the y-axis (ranging from -60 to -10) and 'FREQUENCY (THz)' on the x-axis (ranging from 222 to 234). A sharp peak is visible at approximately 228.5 THz. To the right of the plot is a yellow box (3) titled 'CohesionUI™' containing system information: COMPANY (QUANTIFI PHOTONICS LTD), MODEL (POWER-1410-264-MA24-EPIQ), SERIAL (QP-998833), UI VERSION (3.01.19), SERVER VERSION (3.02.3.ALPHA.3838-302BFA4), DRIVER VERSION (3.01.54), PACKAGE VERSION (3.02.7.ALPHA.1414), and CHASSIS MODE (SINGLE). At the bottom, there is a table with columns: NUMBER, FREQUENCY (GHz), LEVEL (dBm), NOISE LEVEL (dBm), CHANNEL LEVEL (dBm), NOISE (dBm/NBW), and SNR (dB). The table contains the text 'No matching records found'.

NUMBER	FREQUENCY (GHz)	LEVEL (dBm)	NOISE LEVEL (dBm)	CHANNEL LEVEL (dBm)	NOISE (dBm/NBW)	SNR (dB)
No matching records found						

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