

# Accessing and Navigating the RL1 Webpage

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# Accessing and Navigating the RL1 Webpage

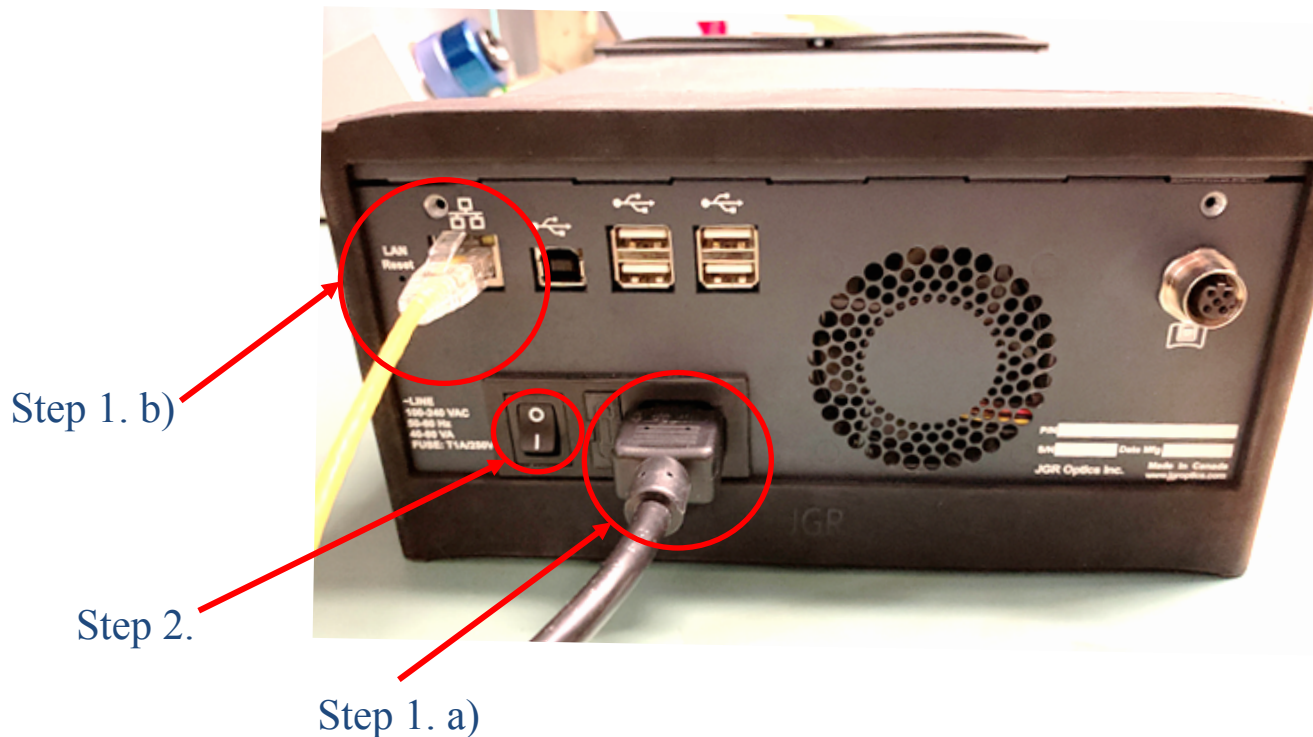
This guide will give an overview of how to access and navigate the RL1 webpage via an ethernet connection.

For more information, please visit [www.jgroptics.com](http://www.jgroptics.com) or email [support@jgroptics.com](mailto:support@jgroptics.com)



# Accessing and Navigating the RL1 Webpage

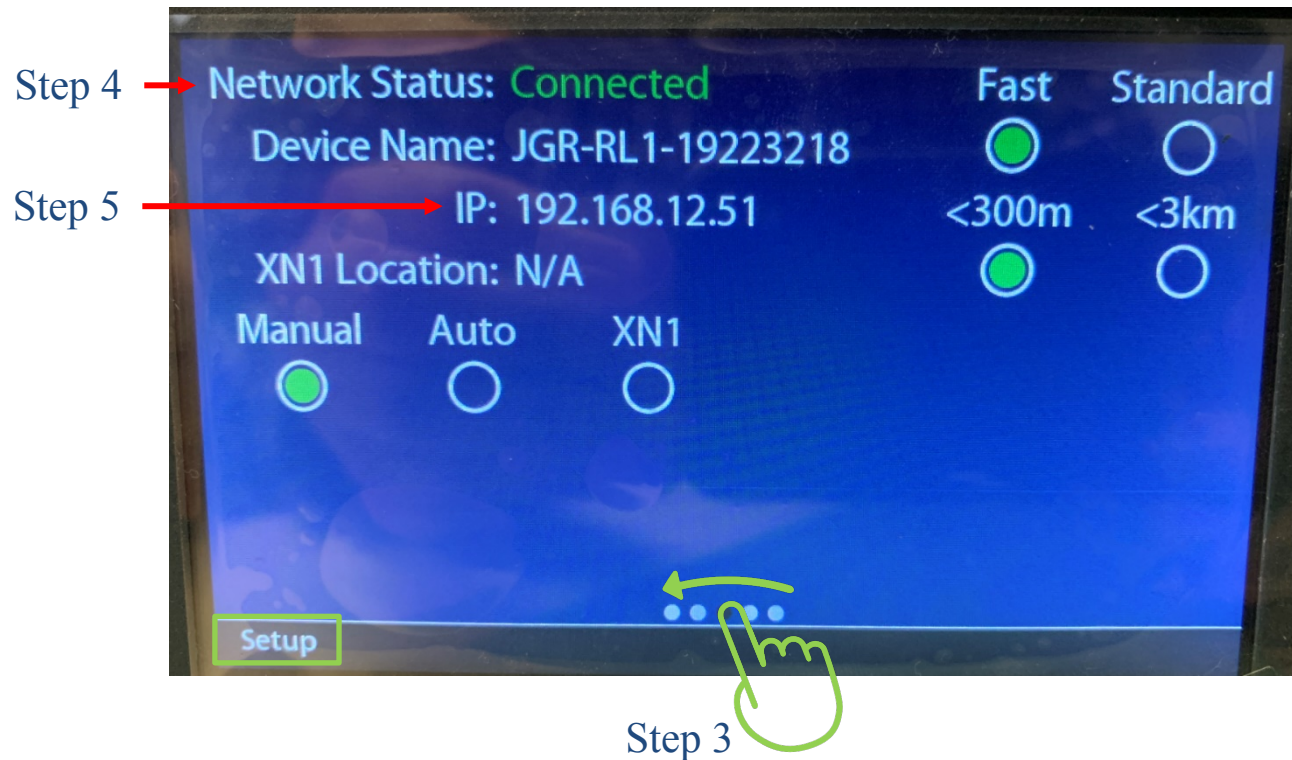
1. Connect the following:
  - a) Power cable to the back of the RL1
  - b) Ethernet cable from the router to the back of the RL1
2. Turn on the RL1



**Note:** The RL1 and controlling PC need to be on the same network.

# Accessing and Navigating the RL1 Webpage

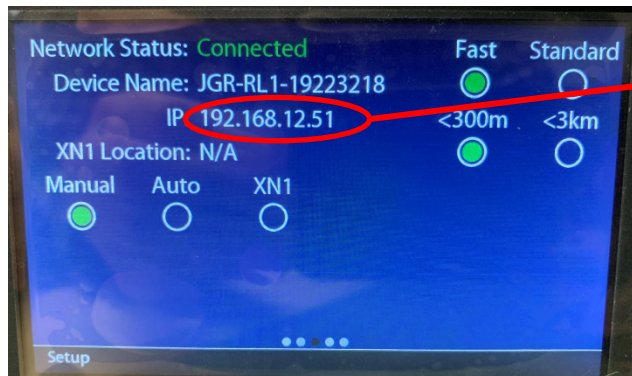
3. Swipe to the *Setup* page which displays information about the device
4. *Network Status* will show as *Connected*
5. The IP address of the RL1 will be displayed



**Note:** if *Network Status* reads as *Disconnected*, please verify your ethernet connection and try again.

# Accessing and Navigating the RL1 Webpage

6. Open a web browser from a PC or tablet on the same network as the RL1. Enter the IP address of the RL1 into the search bar. The RL1 webpage should load within a few seconds.



## Step 6.

The screenshot shows the RL1 web interface in a browser. The browser's address bar shows '192.168.12.51/' which is circled in red. The page title is 'RL1'. On the left, there is a sidebar menu with options: 'Dashboard', 'System Information', 'Settings', 'Self Calibration', 'Help', and 'About'. The main content area shows the following information:

Calibration: 2019-10-16 12:01(Factory)

Calibration Results: ✔Pass Calibration Date: 2019-10-16

RL1-02-305009FA: 19223218

RD-S: 21900000999

Return Loss Accuracy

Wavelength (nm)	Reference (dB)	Specifications (± dB)	Results (dB)	Difference (dB)	Status
1310	55.103	0.7	55.122	0.0187	Pass
1550	57.603	0.7	57.640	0.0370	Pass

Wavelength (nm)	Reference (dB)	Specifications (± dB)	Results (dB)	Difference (dB)	Status
1310	61.481	0.7	61.493	0.0112	Pass
1550	63.981	0.7	64.015	0.0340	Pass

Wavelength (nm)	Reference (dB)	Specifications (± dB)	Results (dB)	Difference (dB)	Status
1310	75.282	2.9	75.292	0.0101	Pass
1550	77.782	2.9	77.742	0.0391	Pass

Hardware Validation

Remote Heads	RD-S1	Pass
Front Panel	Output1	Pass
	Output2	Pass
	Bulkhead1	Pass
	Bulkhead2	Pass
Internal	Firmware	Pass
	Electronics	Pass
	Optics	Pass

**Note:** Google Chrome or Firefox are recommended web browsers.

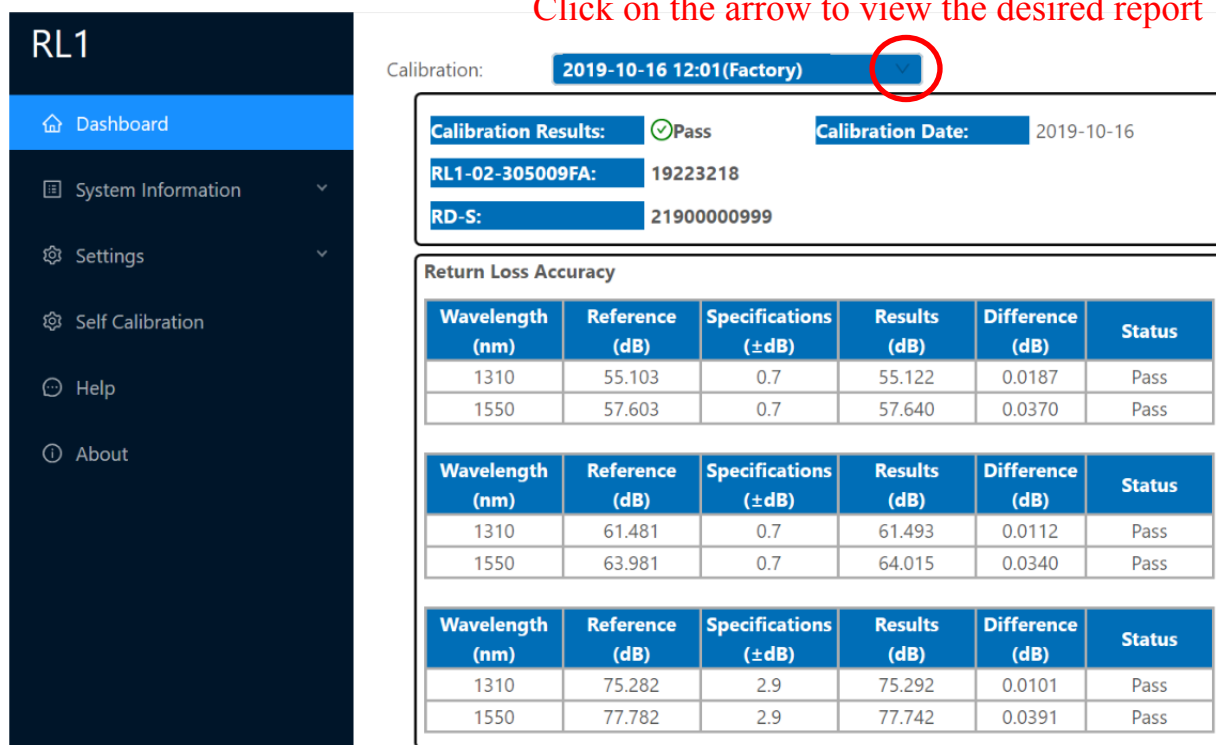
# Accessing and Navigating the RL1 Webpage

## Dashboard

Displays calibration reports:

- Factory calibration by JGR
- Self-calibration (last 3 are stored on the RL1)

Click on the arrow to view the desired report



RL1

- Dashboard
- System Information
- Settings
- Self Calibration
- Help
- About

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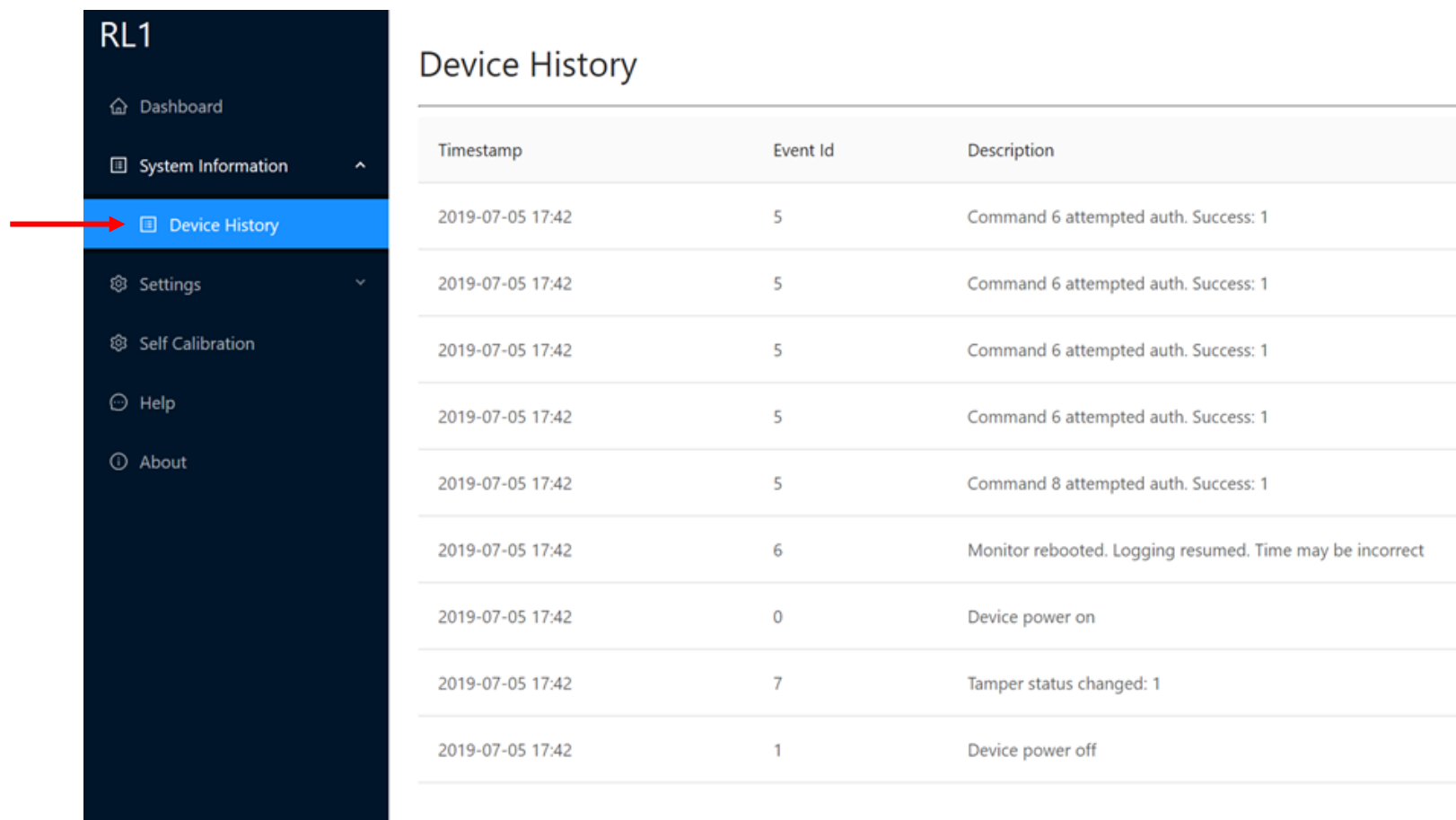
Wavelength (nm)	Reference (dB)	Specifications ( $\pm$ dB)	Results (dB)	Difference (dB)	Status
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# Accessing and Navigating the RL1 Webpage

## System Information

- Device History: displays the RL1 events log



The screenshot shows the RL1 web interface. On the left is a dark blue sidebar with the title 'RL1' at the top. Below the title are several menu items: 'Dashboard' with a home icon, 'System Information' with a document icon and an upward arrow, 'Device History' with a document icon and a red arrow pointing to it, 'Settings' with a gear icon and a downward arrow, 'Self Calibration' with a gear icon, 'Help' with a speech bubble icon, and 'About' with an information icon. The main content area on the right is titled 'Device History' and contains a table with three columns: 'Timestamp', 'Event Id', and 'Description'. The table lists ten events, all occurring on 2019-07-05 at 17:42. The first five events have an Event Id of 5 and describe 'Command 6 attempted auth. Success: 1'. The sixth event has an Event Id of 6 and describes 'Monitor rebooted. Logging resumed. Time may be incorrect'. The seventh event has an Event Id of 0 and describes 'Device power on'. The eighth event has an Event Id of 7 and describes 'Tamper status changed: 1'. The ninth event has an Event Id of 1 and describes 'Device power off'. The tenth event is not visible in the provided image.

Timestamp	Event Id	Description
2019-07-05 17:42	5	Command 6 attempted auth. Success: 1
2019-07-05 17:42	5	Command 6 attempted auth. Success: 1
2019-07-05 17:42	5	Command 6 attempted auth. Success: 1
2019-07-05 17:42	5	Command 6 attempted auth. Success: 1
2019-07-05 17:42	5	Command 8 attempted auth. Success: 1
2019-07-05 17:42	6	Monitor rebooted. Logging resumed. Time may be incorrect
2019-07-05 17:42	0	Device power on
2019-07-05 17:42	7	Tamper status changed: 1
2019-07-05 17:42	1	Device power off



# Accessing and Navigating the RL1 Webpage

## Settings

- Network Settings: the RL1 network parameters can be set automatically or manually
  - Automatic: enable DHCP (dynamic IP address)
  - Manual: disable DHCP and set parameters (fixed IP address)

**RL1**

- Dashboard
- System Information
- Device History
- Settings
- Network Settings**
- Upgrade
- Self Calibration
- Help
- About

### Network Settings

**MAC Address:** a0:28:33:50:02:36

mDNS Hostname JGR-RL1-19223218

**Use DHCP:** ☒ Yes ☐ No

IP Address 192.168.12.51

Subnet Mask 255.255.0.0

Gateway Address 192.168.1.1

XN1 Address N/A

**Save** **Reset**

Note: After changing your IP address, you will need to type the new device IP address into the web browser to log into the device.



# Accessing and Navigating the RL1 Webpage

## Settings

- Upgrade: go to <https://jgroptics.com/downloads/software> to find the latest version of the firmware

Note: the power meter firmware is stored on the RL1. If the *Upgrade Status* indicates that an upgrade is required, click on the button to the right of it to install the new firmware for each power meter as indicated.

The screenshot displays the RL1 web interface. On the left, a dark sidebar contains navigation links: Dashboard, System Information, Device History, Settings, Network Settings, Upgrade (highlighted with a red arrow), Self Calibration, Help, and About. The main content area is titled 'Upgrade'. It shows the 'Current Version: 01.16.00' and two buttons: 'Select Firmware' and 'Start Upgrade'. Below this, a section titled 'Power Meters' shows the 'Available firmware version: 00.16.00'. A table lists the power meters with columns for '#', 'Serial Number', 'Firmware Version', 'Upgrade Status', and a 'Reinstall' button. The table contains one entry with 'No upgrade required' in the status column. Red annotations highlight the 'Current Version' and 'Start Upgrade' buttons as 'RL1 firmware information', and the 'Power Meters' table as 'Connected power meters'.

**RL1**

Dashboard

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Device History

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### Upgrade

Current Version: 01.16.00

Select Firmware

Start Upgrade

Power Meters

Available firmware version: 00.16.00

#	Serial Number	Firmware Version	Upgrade Status	
0	Internal	00.16.00	No upgrade required	Reinstall

Get the latest firmware version from [JGR Optics](#)

# Accessing and Navigating the RL1 Webpage

## Self Calibration

More information on the self-calibration process can be found in the *RL1 Self Calibration* tutorial available in the *Tutorials* section of our website: <http://www.jgroptics.com/support/tutorials>

RL1

Dashboard

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### Self Calibration

☐ Remove FC output panel and disconnect output fibers

	Detected ID	Serial Number	Connection Type
<input checked="" type="radio"/>	1	21928000129	Wireless

☐ Verify RD-S diffuser is clean and free of defects  
☐ Clean and inspect Output Fiber 1  
☐ Connect Output Fiber 1 to RD-S

Start

Click Start to read the power level of RD-S 1 on Output 1

	Wavelength (nm)	RD-S 1 (dBm)	Internal Power Meter	Live Reading (dBm)
<input type="radio"/> Laser Off	1310	0.000 N/A	N/A	0
<input type="radio"/> Laser Off	1550	0.000 N/A	N/A	0

☐ Clean and inspect Output Fiber 2  
☐ Connect Output Fiber 2 to RD-S

Start

Click Start to read the power level of RD-S 1 on Output 2

	Wavelength (nm)	RD-S 1 (dBm)	Internal Power Meter	Live Reading (dBm)
<input type="radio"/> Laser Off	1310	0.000 N/A	N/A	0
<input type="radio"/> Laser Off	1550	0.000 N/A	N/A	0

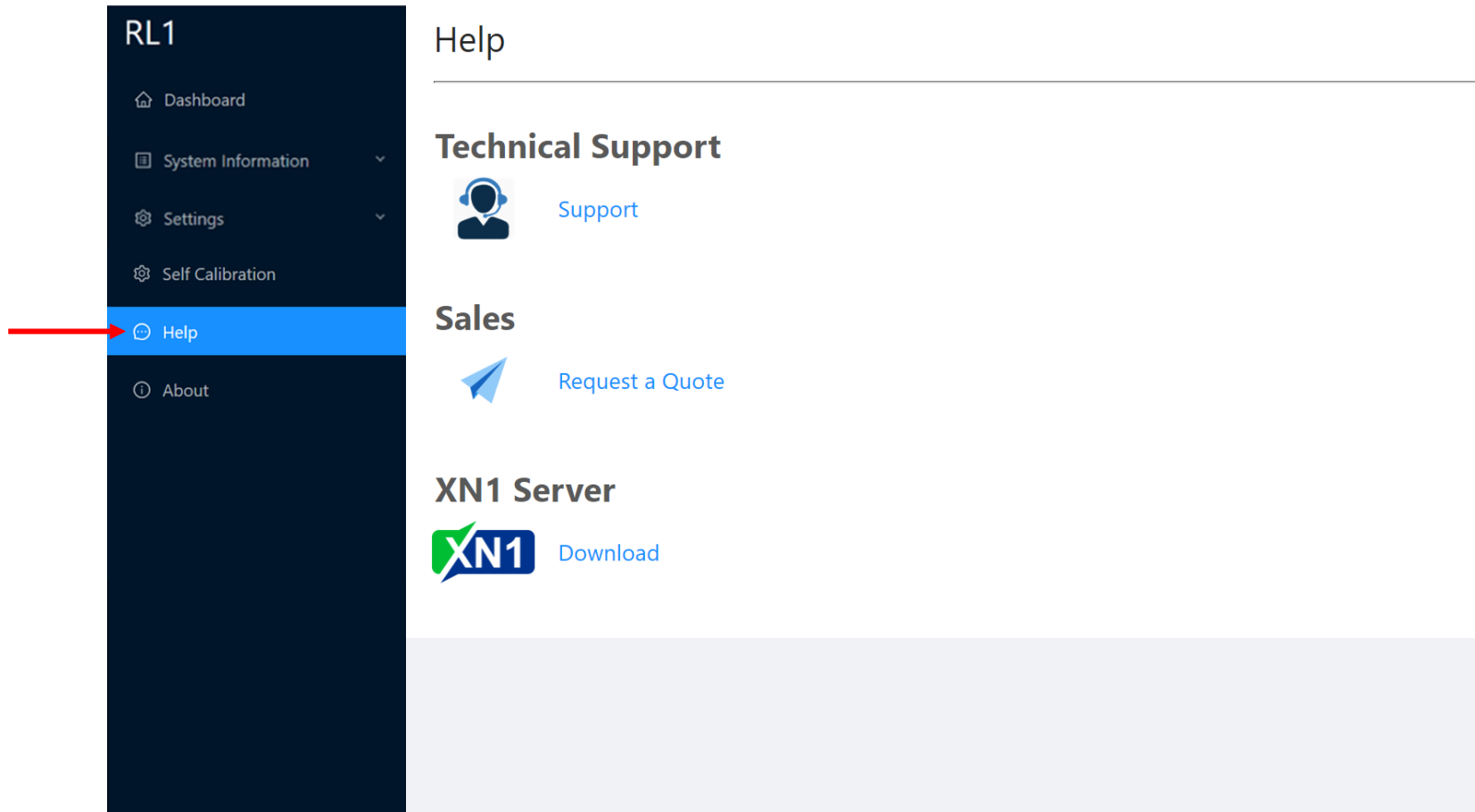
☐ Reconnect both Output 1 and Output 2 to the FC output panel  
☐ Carefully attach the output panel to the RL1

**Return Loss Accuracy**  
Start Click Start to begin Return Loss Accuracy calibration

# Accessing and Navigating the RL1 Webpage

## Help

- Contact JGR Optics' technical support
- Contact the sales department
- Download the latest version of the XN1 server software



The screenshot displays the RL1 webpage interface. On the left is a dark blue vertical navigation menu with the title 'RL1' at the top. The menu items are: 'Dashboard' (with a home icon), 'System Information' (with a document icon and a dropdown arrow), 'Settings' (with a gear icon and a dropdown arrow), 'Self Calibration' (with a gear icon), 'Help' (with a speech bubble icon, highlighted in light blue with a red arrow pointing to it from the left), and 'About' (with an information icon). The main content area on the right has a white background and a horizontal line below the 'Help' header. It contains three sections: 'Technical Support' with a headset icon and a 'Support' link; 'Sales' with a paper plane icon and a 'Request a Quote' link; and 'XN1 Server' with a green 'XN1' logo and a 'Download' link. The bottom of the page features a light gray footer area.


RL1

- Dashboard
- System Information
- Settings
- Self Calibration
- Help
- About


### Help

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#### Technical Support

 [Support](#)

#### Sales

 [Request a Quote](#)

#### XN1 Server

 [Download](#)

# Accessing and Navigating the RL1 Webpage

## About

Displays information about the device

