



Legacy software or instruments  
may experience compatibility issues.  
Please receive support from  
customer service in such cases.



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This Quick Start Guide is also  
available on our website:



[www.highfinesse.com/quick-start-guide](http://www.highfinesse.com/quick-start-guide)

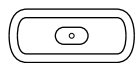
#### Please note:

Some optional features require separate  
hardware parts. Please make sure to assemble  
them before software installation!

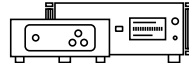
Quick Start Guide · HighFinesse Laser Spectrum Analyzer · 11-2024  
LSA Series · Connection directly to light source

This document provides general information only and may be  
subject to change at any time without prior notice.

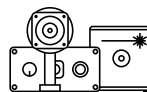
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product portfolio of HighFinesse



Wavelength Meter



Linewidth Analyzer



Calibration Sources

[www.highfinesse.com](http://www.highfinesse.com)



## Quick Start Guide

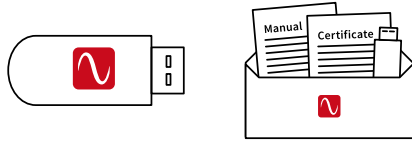
### HighFinesse Laser Spectrum Analyzer



# LSA Series

Connection **directly**  
to light source

1



The **installation software** is deployed on a flash drive. It's stored in the **envelope** that contains the manual and certificate.

2



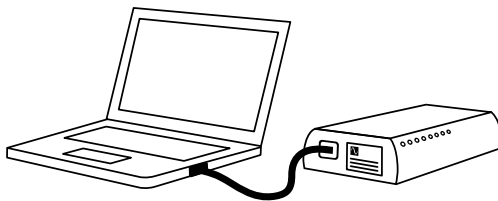
Start »setup.exe«

**Express Setup** – Automatic installation, simply follow the prompts.

**Custom Setup** – For advanced users desiring custom settings. Follow the prompts.

3

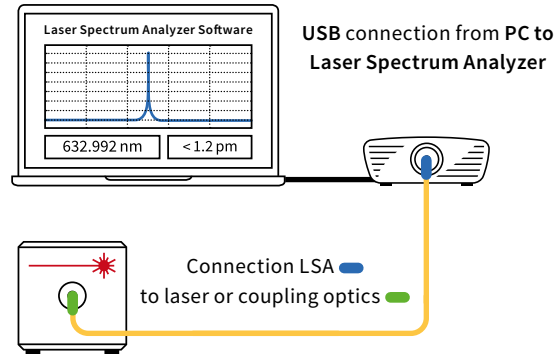
### Connect Laser Spectrum Analyzer and Computer



Some laser spectrum analyzers have an external power supply. Please connect the power supply before connecting the USB cable (included in shipment). **Please avoid using USB cables longer than 3 meters** – that might cause communication protocol difficulties with Windows.

4



### Connect Laser Spectrum Analyzer and Light Source



**⚠ Please note:** A few nJ (10 nW @ 1 s exposure) or even less are usually enough to achieve a measurement. Take special care when working with pulsed lasers to avoid exceeding damage threshold of optical fibers.

#### Suitable patchcords:

All wavelength meters feature FC/PC sockets.

**For singlemode fibers:** Use the **FC/APC** connector  at the laser and the **FC/PC** connector  at the laser spectrum analyzer.

Your measurement results will be impaired when you apply FC/APC connectors to a laser spectrum analyzer input.

5



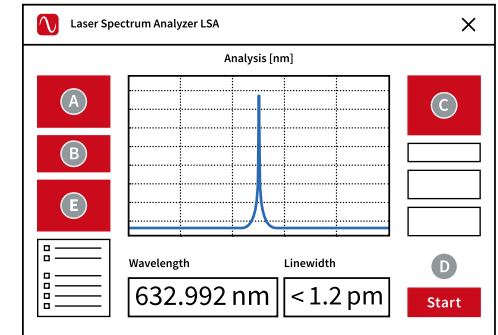
Start software

Simply run the desktop shortcut.

6

### Start Measurement

Depending on your light source adjust the software settings in the graphical user interface.



- A** Select preferred unit
- B** Select **pulsed** or **continuous**
- C** Adjust exposure **manually** or select “**Automatic**”
- D** Start the measurement
- E** Click on “**Analysis**” to **display the laser spectrum** instead of the raw diffraction patterns.

#### Modes

- ☒ Analysis
- ☐ Linewidth
- ☐ Auto Calibration

Click on “**Linewidth**” to **display the FWHM**.

#### Modes

- ☐ Analysis
- ☒ Linewidth
- ☐ Auto Calibration