

## Agilent CrossLab Start Up Services

# Agilent Synergy LX Multi-Mode Reader Site Preparation Checklist

Thank you for purchasing an instrument from **Agilent Technologies**. CrossLab Start Up is focused on helping customers shorten the time it takes to start realizing the full value of their instrument investment.

Correct site preparation is the key first step in ensuring that your instruments and software systems operate reliably over an extended lifetime. This document is an **information guide and checklist** prepared for you that outlines the supplies, space, and utility requirements for the system setup in your lab.

# Introduction

## Customer Information

- If you have questions or problems in providing anything described as part of *Customer Responsibilities* below, please contact your local Agilent or partner support / service organization for assistance prior to delivery. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your laboratory.
- Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-schedule any services that have been purchased.
- Other optional services such as additional training, operational qualification (OQ) and consultation for user-specific applications may also be provided at the time of installation when ordered with the system but should be contracted separately.
- Please refer to the other peripheral products (e.g., sampling products, etc.) for site preparation requirements.

## Customer Responsibilities

Ensure that your site meets the following specifications before the installation date.

For details, see specific sections within this checklist, including:

- The necessary laboratory or bench space is available.
- The required **environmental conditions for the lab** as well as laboratory gases, tubing.
- The **power requirements** related to the product (e.g., **number and location** of electrical outlets).
- The **required operating supplies** necessary for the product and installation.
- While Agilent is delivering **Installation and Introduction** services, users of the instrument should be present throughout these services; otherwise, they will miss important operational, maintenance and safety information.
- Please consult the **Special Requirements and Other Considerations** section below for other product-specific information.

## Important Customer Web Links

- To access Agilent training and education, visit <http://www.agilent.com/chem/training> to learn about training options, which include online, classroom and onsite delivery. A training specialist can work directly with you to help determine your best options.
- To access the **Agilent Resource Center** web page, visit <https://www.agilent.com/en-us/agilentresources>. The following information topics are available:
  - Sample Prep and Containment
  - Chemical Standards
  - Analysis
  - Service and Support
  - Application Workflows
- The **Agilent Community** is an excellent place to get answers, collaborate with others about applications and Agilent products, and find in-depth documents and videos relevant to Agilent technologies. Visit <https://community.agilent.com/welcome>
- Videos about specific preparation requirements for your instrument can be found by searching the **Agilent YouTube** channel at <https://www.youtube.com/user/agilent>
- **Need to place a service call?** [Flexible Repair Options | Agilent](#)
- To contact a Synergy LX service representative, e-mail a message to [bio.tac@agilent.com](mailto:bio.tac@agilent.com)

## Site Preparation

### Dimensions and Weight

Identify the laboratory bench space before your system arrives based on the table below. Pay special attention to the total height and total weight requirements for all system components you have ordered and avoid bench space with overhanging shelves. Also pay special attention to the total weight of the modules you have ordered to ensure your laboratory bench can support this weight.

### Special notes

The following table provides dimensions and weight requirements.

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs.	cm	in	cm	in	cm	in
Synergy LX multi-mode Reader T-Model	12.2	27	38.1	15	39.4	15.5	32.4	12.75
Synergy LX multi-mode Reader non T-Model	11.3	25	30.1	12	39.4	15.5	32.4	12.75
Optional PC / computer	10.2	22.4	44.5	17.5	38.6	15.2	16.9	6.7
Optional Monitor (with stand)	4.7	10.4	53.9	21.2	16.5	6.5	34.8	13.7

### Equipment Positioning on the Bench

- The Synergy LX requires bench space with the following approximate dimensions: 15" width, 15" height, and 18" depth.
- The rear of the instrument will need at least four inches of free space for cooling airflow and serial / printer port cord routing.

## Environmental Conditions

Operating your instrument within the recommended temperature ranges ensures optimum instrument performance and lifetime.

### Special notes

- Performance can be affected by sources of heat and cold, e.g., direct sunlight, heating/cooling from air conditioning outlets, drafts and/or vibrations.
- The bench or supporting surface must be vibration free.

The following table may help you calculate the additional BTUs of heat dissipation from this new equipment. Maximums represent the heat given off when heated zones are set for maximum temperatures.

Instrument Description	BTU Heat Dissipation	
Synergy LX Reader	205 BTU/HR	If the instrument is to be enclosed, the container must have an exhaust and temperature control to dissipate the heat generated by the instrument and power supply.
Instrument Description	Operating Temperature Range °C (F)	Operating Humidity Range %
Synergy LX Reader	18°C (64°F) – 37°C (98.6°F)	10-85% non-condensing

## Exhaust Venting Requirements

The instrument has a fan to cool internal lamp and electronics. If this is blocked, or the ambient environment temperature is raised, it could affect the operation of the instrument.

## Power Consumption

### Special notes

- If a computer system is supplied with your instrument, be sure to account for those electrical outlets.

Instrument Description	Line Voltage and Frequency V, Hz	Maximum Power Consumption VA	Maximum Power Consumption W
Synergy LX Reader	100VAC – 240VAC 50Hz -60Hz	60 VA maximum	60 W maximum
Optional PC / computer	100VAC – 240VAC 50Hz -60Hz	100 VA maximum	100 W maximum
Optional Monitor	100VAC – 240VAC 50Hz -60Hz	125 VA maximum	125 W maximum
Service Outlet	100VAC – 240VAC 50Hz -60Hz	500 VA maximum	500 W maximum

## Required Operating Supplies by Customer for Installation

### Special notes

For information on Agilent consumables, accessories, and laboratory operating supplies, please visit: [BioTek is now Agilent | Agilent](#)

Item Description (including Dimensions etc.)	Vendor's Part Number (if applicable)	Recommended Quantity
DI Water		< 200mL
70% Ethanol		< 200mL
Container for non-hazardous waste		1
Location to temporarily store shipping material		24" L x 27" W x 22" H (61.0 cm x 68.6 cm x 55.9 cm)
CE certified power strip with 1800-watt minimum rating (120V/15A or 240V/7.5A) to accommodate up to five (5) power supplies for fully loaded models (including computer).		1

## Special Requirements and Other Considerations

### Tools

Your Agilent instrument comes with a few basic tools and consumables which are relevant to the specific configuration of your system.

#### ***Tools (provided)***

- Hex wrench 3/32" (included with instrument)
- Hex wrench 7/64" (included with instrument)



## Site Preparation Checklist

Use the following checklist to ensure that the site is properly prepared for Synergy LX reader installation.

- ☐ Prepare bench space for the Synergy LX reader. Ensure that the bench has the size and weight capacity to accommodate the Synergy LX and associated components.
- ☐ Ensure that the Synergy LX system has sufficient clearance to allow for airflow and heat dissipation.
- ☐ Ensure that the location in which the Synergy LX system is being installed meets the requirements for environmental conditions.
- ☐ Communicate with local IT department for computer setup, including internet connectivity for the PC / controller. If this is not feasible, please connect with your Agilent contact.
- ☐ At least five electrical outlets proximal to the installation location. It is acceptable to use a power strip or uninterrupted power supply to achieve this requirement.

## Service Engineer Review (Optional)

### Service Engineer Comments

If the Service Engineer completed a review of the Site Preparation requirements with the customer, the Service Engineer should complete the following Comments section.

If there are any specific points you wish to note as part of performing this service review or other items of interest for the customer, please write in this box.

## Site Preparation Verification

Service Request Number:

Date of Review:

Service Engineer Name:

Customer Name:

Service Engineer Signature:

Total number of pages in this document: