Agilent CrossLab
From Insight to Outcome

Agilent CrossLab Start Up Services

Agilent Cytation 1 Cell Imaging Multi-Mode Reader Site Preparation Checklist

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

Correct site preparation is the 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.

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Agilent

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.
- 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, 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 be ordered with the system but should be contracted separately.
- Installation of the Cytation 1 may involve multiple parties. The installation and training are to be scheduled with your Field Applications Scientist or, in case of additional services such as operational qualification, contact Agilent CrossLab.

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Customer Responsibilities

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

- Please communicate your site's PPE rules to the visiting Agilent representative before the day of the visit.
- For gas controller accessories provide access to laboratory gases (CO_2, N_2) and appropriate tubing, connections, and regulators. We recommend that you connect with your facilities team to ensure that institutional laboratory gas safety protocols are met.
- Ensure there are at least four (4) emergency-protected electrical outlets close to your installation location. It is acceptable to use a power strip or uninterrupted power supply. An additional outlet is required if the Cooling Accessory is to be used with the instrument.
- Provide the **required operating supplies** necessary for the product and installation. See section Required Operating Supplies (Customer Provided) for details.
- Ensure IT readiness for computer setup, including internet connectivity for the imaging controller. If this is not feasible, please connect with your Agilent contact.
- 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.
- Technical Support e-mail is bio.tac@agilent.com.

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

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.

- This product requires additional lifting assistance in order to be located in your lab due to its weight. Please discuss the arrangements for this activity with the service engineer prior to installation.

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs.	cm	in	cm	in	cm	in
Cytation 1 Imaging Multi-Mode Reader	29	65	44.5	17.5	51.4	20.2	41.6	16.4
Controller	10.2	22.4	44.5	17.5	38.6	15.2	16.9	6.7
Monitor (with stand)	4.7	10.4	53.9	21.2	16.5	6.5	34.8	13.7
Note: With the Cooling Accessory installed, an additional 11 lbs (24.2 kg) will be added to the total instrument weight. Note: The Cooling Accessory adds an additional 6" (15.24 cm) to overall instrument depth.								

Equipment Positioning on the Bench

- The Cytation 1 requires bench space with the following approximate dimensions: 23" height, 26" depth, and 4 feet width. The Cooling Accessory adds an additional 6" (15.24 cm) to overall instrument depth.
- The rear of the instrument will need at least six (6) inches of free space for cooling airflow and power cord routing.
- The front of the instrument will need at least eight (8) inches of clear space for instrument carrier access.
- The left side of the instrument will need at least eight (8) inches of clear space for objective and LED/Filter cube access.

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Environmental Conditions and Heat Dissipation

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.
- To ensure optimal image quality, it is particularly important that your Cytation 1 not be placed in a location near centrifuges, freezers, or other sources of vibration.
- 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**	
Cytation 1 and Controller	863 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.
Cooling Accessory	511 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.
Instrument Description	**Operating Temperature Range °C (F)**	**Operating Humidity Range %**
Cytation 1 and Controller	18°C (64°F) – 30°C (86°F)	10-85% non-condensing
Cooling Accessory	18°C (64°F) – 30°C (86°F)	10-85% non-condensing

Exhaust Venting Requirements

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

Power Consumption

- The instrument will need four (4) outlets to source power to the instrument, as outlined below.
- It is important that the outlets used are provided uninterrupted power so that extended kinetic experiments are not interrupted. Contact your institution's facilities team if you are concerned about whether your chosen outlets are sufficient.

Instrument Description	Line Voltage and Frequency V, Hz	Maximum Power Consumption VA	Maximum Power Consumption W
Cytation 1	100VAC – 240VAC 50Hz -60Hz	250 VA maximum	250 W maximum
Controller	100VAC – 240VAC 50Hz -60Hz	68 VA maximum	68 W maximum
Monitor	100VAC – 240VAC 50Hz -60Hz	68 VA maximum	68 W maximum
Service Outlet	100VAC – 240VAC 50Hz -60Hz	500 VA maximum	500 W maximum
Cooling Accessory	100VAC – 240VAC 50Hz -60Hz	150 VA maximum	150 W maximum

Required Operating Supplies

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 materials		Box 1: 37" L x 30" W x 28" H (94 cm x 76 cm x 71 cm) Box 2: 26" L x 24" W x 11" H (66 cm x 61 cm x 28 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 controller). An additional outlet is required if the Cooling Accessory is being used.		1

Special Requirements and Other Considerations

Gas management

- See the Customer Responsibilities section.
- If a gas controller accessory has been purchased with the instrument, please refer to the Gas Controller documentation.
- If a Cooling Accessory has been purchased with the instrument, please refer to the Cooling Accessory documentation.

Tools *(provided)*

- Your Agilent instrument comes with the following tools:
    - 9/64" and 3/32" hex wrenches.
    - Phillips #2 screwdriver.
    - Objective calibration plate (PN 1852501).
    - Objective adapter collar wrench (PN 1222187).

Site Preparation Checklist

Use the following checklist to ensure that the site is properly prepared for Cytation 1 system installation.

- ☐ Prepare bench space for the Cytation 1 system. Ensure that the bench has the size and weight capacity to accommodate the Cytation 1 and associated components.
- ☐ Ensure that the Cytation 1 system has sufficient clearance to allow for airflow and heat dissipation.
- ☐ Ensure that the location in which the Cytation 1 system is being installed meets the requirements for environmental conditions.
- ☐ Ensure that appropriate gas plumbing is provided if a gas controller accessory will be used.
- ☐ Ensure access to laboratory gases (CO_2, N_2) and appropriate tubing, connections, and regulators. We recommend that you connect with your facilities team to ensure that institutional laboratory gas safety protocols are being met.
- ☐ Communicate with local IT department for computer setup, including internet connectivity for the imaging controller. If this is not feasible, please connect with your Agilent contact.
- ☐ Ensure there are at least four (4) electrical outlets close to the installation location. It is acceptable to use a power strip or uninterrupted power supply. An additional outlet is required if the Cooling Accessory is being used.

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Service Engineer Review (Optional)

Field Applications Scientist or Service Engineer Comments

If the Field Applications Scientist or Service Engineer completed a review of the Site Preparation requirements with you, they should complete the following Comments section.

If applicable, both the Field Application Scientist or Service Engineer and the customer must complete and sign the Site Verification section below.

If there are any specific points that should be noted as part of performing the 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:

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